

FINAL

SITE ASSESSMENT REPORT

**FORMER WHIRLPOOL PARK SITE
GREEN SPRINGS, SANDUSKY COUNTY, OHIO**

October 29, 2013

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List of Acronyms

AECOM	AECOM Technical Services
AST	Above Ground Storage Tank
ASTM	American Society for Testing and Materials
bgs	below ground surface
COCs	Constituents of Concern
ERB	Emergency Response Branch
EU	Exposure Units
ft	Feet
FWP	Former Whirlpool Park
ft/ft	Feet per Foot
gpm	gallons per minute
IA	Identified Areas
MW	Monitoring Well
OAC	Ohio Administrative Code
OEPA	Ohio Environmental Protection Agency
ODGS	Ohio Division of Geologic Survey
ODNR	Ohio Department of Natural Resources
PCB	Polychlorinated Biphenyls
PID	Photoionization Detector
PLM	Polarized Light Microscopy
Ppm	parts per million
RSL	Regional Screening Levels
SVOCs	Semi-volatile organic compounds
TAL	Target Analyte List
TEM	Transmission Electron Microscopy
TSCA	Toxicity Substance Control Act
USCS	Unified Soil Classification System
USEPA	Environmental Protection Agency
USGS	United States Geological Survey
VAP	Voluntary Action Program
VOCs	Volatile Organic Compounds

1.0 Introduction

This report presents the results of an environmental site assessment conducted by AECOM on behalf of Whirlpool Corp. (Whirlpool) at the Former Whirlpool Park (FWP) site located at Township Road 187, Green Springs, Sandusky County, Ohio (Site). The assessment was conducted at the request of the United States Environmental Protection Agency (USEPA) Region V Emergency Response Branch (ERB) based on results of an initial site assessment conducted by the USEPA's contractor Weston Solutions and presented in a Site Assessment Report dated September 28, 2012. AECOM's assessment was conducted in general accordance with the Ohio Environmental Protection Agency (OEPA) Voluntary Action Program (VAP), however, this report presents sampling and testing results associated with the USEPA request and provides a comparison of results to USEPA screening levels. It should be noted that this document was not intended to meet the requirements of the VAP Phase II rules (OAC) 3745-300-07.

2.0 Site Background

The Site is located approximately one mile north of Green Springs, Ohio in Sandusky County as shown on **Figure 1**, Site Location Map (United States Geological Survey (USGS), 1980). The Site consists of an odd-shaped parcel of 27 acres with the main southern area consisting of a 20-acre triangle (South Triangle) and the remaining seven acres a narrow strip of land extending to the north along Flag Run Creek (North Leg). The Site is situated in a rural area of southern Sandusky County in a region used mostly for agricultural purposes as shown on **Figure 2**. Residential dwellings are sparsely located throughout the area with three residential dwellings situated adjacent to the Site, one on the north side of the Site and two on the south side.

2.1.1 Site Description

The east half of the South Triangle is relatively flat near Elevation 675 feet (ft) while the northern end of the North Leg is at Elevation 650 ft. The main topographic feature of the Site is a relatively deep narrow valley occupied by the meandering Flag Run Creek and Old Mill Raceway (Mill Race) which both flow northwestward along the entire west Site boundary. These two water courses are occasionally connected at various locations along the north leg before combining into one creek-bed just north of the north Site line. Flag Run Creek is a tributary to Green Creek which flows directly to Sandusky Bay to the north.

The North Leg is undeveloped other than the Old Mill Raceway, heavily wooded and bordered on both east and west sides by farmland. The South Triangle has reportedly experienced development since the early 1800s with extensive development since about 1950 as further described below. The South Triangle is lightly treed with large open grass areas. Current major improvements to the Site consist of a former 1-acre asphalt-lined swimming pool (not currently maintained), a 1.25-acre asphalt parking lot, a 1/2-acre pond (East Pond) and ¼-acre pond (West Pond) (both currently dry), a shelter house/patio area, partial asphalt tennis court (2 courts) and concrete basketball court.

2.1.2 Site History

Despite the remote rural location, the Site has a long history reportedly dating back to the early 1800s when a grist mill was constructed at the northwest corner of the South Triangle. Mill water was provided by a constructed open channel known as the Mill Race which runs from a natural

spring located on the north side of Green Springs, Ohio and flows north in straight channel lengths and parallel to the more meandering Flag Run Creek. The grist mill was reportedly operated until the 1930s, when the building burned down and was eventually demolished in place.

In 1953, Whirlpool purchased the Site for development into a company private park with various improvements made from 1954 to 2003. Whirlpool sold the Site in 2008. The current owner, a local contractor, uses the Site to store equipment and for temporary stockpiling of soil and construction debris.

3.0 Sampling Methods

3.1 Work Plans

Sampling and testing methods for site-specific media including soil, sediments, surface water and groundwater was conducted in accordance with the following documents:

- Final Draft VAP Phase II Work Plan, April 17, 2013 (**Appendix A**); and
- Supplemental Work Plan #1, April 17, 2013 (**Appendix B**).

The work plans were approved by USEPA and Ohio EPA on April 18, 2013.

A Draft VAP Phase I assessment (AECOM, 2013) resulted in the recognition of three (3) Identified Areas (IAs) for the Site as shown on **Figure 3**. An IA is defined as a location at the Site where a release of hazardous substances or petroleum has or may have occurred. The IAs were further divided into exposure units (EUs) to assist with determining VAP sampling requirements resulting in the following sampling areas shown on **Figure 3**:

IA#1-EU#1 – Former East Ravine;

IA#1-EU#2 – Mill Race and Flag Run Creek;

IA#2-EU#1 – Soil Stockpiles;

IA#2-EU#2 – Mill Race;

IA#3-EU#1 – Fill Area;

IA#3-EU#2 - Former Mill Race and Flag Run Creek; and

Adjacent Site - Due to fill material placed on the Site located directly south and adjacent to the FWP at 1909 County Road 181, one shallow monitoring well was planned to be installed on the south side of the FWP.

Procedures described in the work plans noted above were used except as noted in the following sections of this report.

3.2 Deviations from VAP Work Plan

Methods used to conduct the sampling work that deviated from the Work Plan and reason for the deviations are listed below. Deviations have been categorized by specific sampling area, analytical methods and groundwater.

IA#1-EU#1 – Former East Ravine;

- The Work Plan indicated that soil borings that do not encounter fill material will be extended to a maximum depth of 10 ft. Due to a condition of sampling rig refusal in the hard brown glacial till, the following borings that did not encounter fill material were advanced to a depth less than 10 ft:

<u>Boring</u>	<u>Terminal Depth</u>
S-1	7.8 ft
S-2	8.0 ft
S-4	8.0 ft
S-8	6.8 ft
S-41	9.0 ft

IA#2-EU#1 – Soil Stockpiles;

- During the shallow soil sampling activities, a section of floor tile was observed on the ground surface near sample location SS-7. A small piece of the floor tile was sampled and submitted to the laboratory for analysis of asbestos containing material using Polarized Light Microscopy (PLM) by ENV.004 (VAP) and Transmission Electron Microscopy (TEM).

IA#3-EU#1 – Fill Area;

- Test trenches TT-7, TT-8 and TT-9 were added during the field work to assist with identification of Fill Area contents. In addition, one soil sample was obtained from test trench TT-7 and one from TT-9. No sample was collected from TT-8 due to collapsing of the trench.
- Field-screening of test trench soil samples using a photo-ionization detector (PID) was not conducted since this requirement was inadvertently left in the work plan. Field screening of test trench samples is usually not accurate due to the extensive mixing of soil and material that occurs during test trench excavation work.
- An additional soil boring (S-1A) was advanced east of test trench TT-4 to assist with delineation of fill material on the east side of the Fill Area.

IA#1, IA#2 and IA#3-EU#2 - Former Mill Race and Flag Run Creek;

- Soil boring S-13 was completed with the Geoprobe direct-push sampling rig; however, the track-mounted Geoprobe had difficulty accessing the remaining locations due to soil conditions within the East and West Ponds and connecting channel. Therefore, the remaining soil borings within these areas were completed with a hand auger.
- An additional hand auger boring (S-19A) was advanced within the East Pond to advance completely through the upper soft soil layer and obtain a sample of the hard brown glacial till.
- Flag Run Creek: Surface water sediment could not be obtained at all locations and depths specified in the Work Plan due to lack of sediment at or around the sample locations.
- Surface water was not collected at sample location SED-6 due to the absence of surface water at the time of sampling.

Adjacent Property

- Monitoring well MW-7A/7B was not installed due to drilling rig access issues and presence of overhead utilities.

Analytical Testing

- To expedite sampling and testing of soil for VOCs, a Terra Core sampler was used. The Terra Core is a one-time use, dedicated sampler, designed to obtain soil samples for VOC analysis and transfer the samples to the appropriate containers for in-field chemical preservation. Terra Core samplers without preservative were tested within the 48-hour hold time for the samples. Terra Core samplers containing preservative were tested within the holding time of 14-days.
- Analysis for asbestos in soil was conducted by Transmission Electron Microscopy (TEM), but not using the CARB method since this method is typically used for rock samples.

Groundwater

- Based on preliminary information regarding hydrogeology of the Site, it was anticipated that distinct shallow and deep saturated zones would be encountered at the site resulting in the Work Plan specifying the use of shallow and deep nested wells at each proposed monitoring well location. In general, shallow saturated zones were not encountered at each of the monitoring well locations with the shallowest water bearing zone occurring at MW-6 at 15 ft bgs with the next zone ranging from 53 ft to 63 ft. bgs. For this reason, nested wells were not constructed at each monitoring well location.
- Due to lack of groundwater recharge in MW-2, a full volume of water introduced during drilling could not be removed during well development.
- Geotechnical analysis of selected soil samples from the borings used to construct the monitoring wells was conducted to assist with characterization of the soil and groundwater conditions at the site. Soil samples were selected for analysis of grain size distribution, liquid and plastic limits, moisture content and classification using standard American Society for Testing and Materials (ASTM) procedures. Soil samples analyzed were

categorized using the Unified Soil Classification System (USCS) ASTM Method D 2487. These samples were collected during the completion of the soil borings that were subsequently converted to monitoring wells and soil samples collected from soil boring S19A located in the East Pond.

3.3 Deviations from Supplemental Work Plan #1

Due to Site access issues, soil sampling was not conducted on the David Abdoo Site located at 1937 County Road (CR) 181.

4.0 Subsurface Conditions

4.1 Regional Geology

4.1.1 Physiography

The Site is situated within the Huron-Erie Lake Plains physiographic region of Ohio, which is characterized as a flat, low-lying portion of the state underlain by glacial till, glacial lacustrine clays and beach ridge sands that overlie primarily limestone bedrock (Ohio Division of Geologic Survey (ODGS, 1998).

4.1.2 Bedrock Geology

Depth to bedrock varies from 50 to 125 ft bgs within the region and varies from 75 to 125 ft deep beneath the Site (Schmidt, 1980). A significant sand and gravel layer up to 20 ft thick appears to be present atop the bedrock in the vicinity of the Site. In the vicinity of the Site there appears to be a shallow groundwater potentiometric surface associated with the Flag Run Creek water level near Elevation 650 ft and a deeper water level near Elevation 630 ft.

4.1.3 Hydrogeology

According to the Ohio Department of Natural Resources (ODNR) Groundwater Resources Map of Sandusky County published in 1980 (Schmidt, 1980), the Site lies in an area of clayey glacial till occasionally containing inter-bedded sand and gravel lenses within a buried valley aquifer system that trends northward toward Lake Erie. Yields in the buried valley system range (Schmidt, 1980) from 25 to 100 gallons per minute (gpm) in the unconsolidated deposits.

An ODNR well survey conducted for the Phase I Site Assessment indicated the presence of 40 water supply wells within a one-mile radius of the Site. Historic ODNR driller logs were used to construct a generalized regional geologic cross-section taken in an east-west direction as shown on **Figure 4**. **Figure 4** indicates the presence of a north-south trending buried bedrock valley filled with a clay-based glacial till with inter-bedded sand and gravel layers or lenses.

4.2 Site Geology

4.2.1 Soil

The Site-specific geology is relatively simple for Ohio consisting of about 100 ft of glacial till overburden covering an undulating limestone bedrock formation. A generalized geologic cross-section of the Site is provided on **Figure 5**. The Site geologic cross-section was developed using

information from the boring logs and monitoring wells advanced at the Site (**Appendix C and D**). A summary of geotechnical test results obtained from selected soil samples is provided in **Appendix E**.

For descriptive purposes, the 100-ft thick glacial till profile can be divided into an upper brown glacial till and a lower gray glacial till as shown on **Figure 5**. The glacial till is a heterogeneous, un-stratified, low-permeable clay-based matrix with variable amounts of silt, sand and gravel which is very stiff to hard. The brown glacial till varies from about 1 to 12 ft in thickness and averages about 10-ft thick across the Site. The upper 5 ft is weathered and portions have been disturbed or removed in some areas due to construction of the East and West Ponds and other Site features. Laboratory testing of the brown glacial till indicate that the soil is a lean clay (CL) using the Unified Soil Classification System (USCS) and American Society of Testing and Materials (ASTM) Standards D-2487 and D-2488 (2011).

The brown till grades abruptly to a gray glacial till to the maximum depth explored of 95 ft below ground surface (bgs). The gray glacial till is similar in gradation and plasticity as the brown glacial till except for generally higher silt and clay content. In addition, thin granular layers were encountered at variable depths within the gray glacial till profile.

The granular layers occurred at various depths as shown on Figure 5 with the thickness varying from less than 6 inches to as much as 3 ft. The shallowest granular seam was encountered 15 ft bgs at MW-6 and consisted of a 3-ft thick layer of sandy silt. The next seam was encountered about 52.7 ft to 55.5 ft deep (Elevation 615 to 620) at MW-2 and MW-5 and classifies as a sand (SP) using the ASTM D 2487 standard. A similar seam was detected near the bottom of MW-6 at Elevation 621 ft. The next seam ranged in depth from 60 to 63 ft (Elevation 605 to 609) at MW-3 and MW-4 and classifies as a sandy silt (ML). The deepest granular layer was encountered at MW-1 near 89 ft bgs (Elevation 575 to 580) and tested as a silty gravel with sand (GM).

4.2.2 Fill Area

Test trench logs indicating material encountered and depth excavated with a photographic log of the test trenches are provided in **Appendix F**, with the test trench locations shown on **Figure 8**. As described in the Work Plan, trenches TT-1 to TT-4 were used to determine lateral extent of fill material on the southeast side of the fill area and trenches TT-5 and TT-6 were excavated to determine approximate depth and content of the fill area. As noted in Section 3.2 of this report, trenches TT-7 to TT-9 were added to assess content only.

Fill material was encountered near the ground surface on the northwest end of test trenches TT-1 and TT-2. As the trenches were excavated to the southeast, fill material was no longer encountered, indicating the lateral extent of fill material at these locations. Fill material was not encountered near the ground surface at test trenches TT-3 and TT-4 indicating the lateral extent of fill material is to the west of these locations. Fill material was encountered at test trenches TT-5 to TT-9 and consisted of mostly brown to dark brown lean clay and silty clay soil with occasional large concrete slab pieces. In addition, smaller pieces of concrete, re-bar, asphalt, brick, rusted metal pieces, metal fencing parts and other miscellaneous debris were encountered such as plastic hoses, wood and limestone fragments. TT-6 contained a small discontinuous 3-inch-thick seam of unknown white and blue chip material. TT-5 and TT-6 encountered a gray silty clay soil at depths of 12.5 and 11.0 ft, respectively. The gray silty clay soil contained no evidence of fill material and appeared to be a natural soil layer.

Based on the test trench data and topographic survey, the fill area appears to be limited to a 100 by 100 ft oblong area having a maximum depth of about 12.5 ft.

4.2.3 Soil Stockpiles

The soil stockpiles located on the northwest side of the east half of the Site range from 3 ft to 14 ft in height and consist mostly of soil, limestone gravel, asphalt and variable amounts of construction debris. The construction debris includes concrete block pieces, limestone, clay tile fragments and floor tile. According to the current Site owner, the soil stockpiles located on the existing parking lot were placed around 2009 and were brought from the Green Springs Elementary School construction project.

4.2.4 Groundwater

Well construction diagrams for monitoring wells MW-1 through MW-6 are provided in **Appendix D** with the Ohio Department of Natural Resources (ODNR) well construction logs presented in **Appendix G**. State plane coordinates, ground surface elevation and top of casing elevation for each monitoring well is provided in **Appendix H**.

Information regarding monitoring well development, purging, sampling and water level elevations obtained from gauging is provided in **Appendix I**. Potentiometric surface data is shown spatially on **Figure 6**.

Groundwater at the Site was found to be limited to occur within the granular layers embedded within the gray glacial till. Based on depth of the granular layers and groundwater level measurements, the groundwater encountered at each granular layer is under confined conditions. For descriptive purposes, the granular layers have been designated as Sand Layers 1 through 4 based on depth, soil classification and potentiometric surface as follows:

<u>Sand Layer</u>	<u>Monitoring Well</u>
S1	MW-6
S2	MW-2 and MW-5
S3	MW-3 and MW-4
S4	MW-1

Sand Layer S1 is the shallowest unit and is likely associated with hydrology of Flag Run Creek. Sand Layer S4 is the deepest and was encountered near the same elevation that the pump is set at the residential supply well located to the north of the Site (**Figure 4**, Well No. 32). Groundwater flow direction regarding each sand layer could not be established by triangulation, since three wells were not screened in each sand layer unit. The horizontal gradient for Sand Layer S2 is 0.017 ft/ft. while the gradient for Sand Layer S3 is 0.0006 ft/ft. The potentiometric surface across the various sand layers tends to decrease to the north-northwest which is consistent with a north-northwest flow direction as published by ODNR for consolidated aquifers in the region (ODNR, 2006).

It is likely that Sand Layers S2 and S3 are hydraulically connected due to proximity and also an apparent downward vertical gradient from S2 to S3.

4.2.5 Surface Water and Sediment

Visual observations and water quality parameters, including flow velocity, were collected at each surface sediment and surface water location. Sediment samples were not collected at locations SED-3 and SED-9 due to lack of sediments present at these locations. Water quality parameters and flow velocity were not collected at the SW-6 location due to lack of water. Observations and measurements were recorded on data collection sheets and are provided in Appendix J.

5.0 Analytical Results

Sample locations including monitoring wells, soil borings, surface soil samples, test trenches, surface water, sediment and pool filter media locations are provided on **Figures 7 and 8**. Media test results were compared to EPA Regional Screening Levels (RSLs) (USEPA, 2012) for residential values for soil/sediment/filter media and drinking water standards for groundwater. As noted in the Weston Site Assessment Report dated September 28, 2012, the arsenic RSL was not used and replaced with established background levels for Sandusky County as published in USGS National Geochemical Survey (USGS, 2008). Surface water results were compared to Ohio surface water quality standards which consist of Lake Erie drainage basin water quality criteria for human health non-drinking water standards for the outside mixing zone (OAC 3745-1-33 Table 33-2, 2002). PCB levels were compared to TSCA high-occupancy unrestricted-use values (40 CFR 761.61(a)(4)). A summary of screening level exceedances is provided on **Tables 1 through 5** with a full summary of results provided in **Appendix K**. The complete laboratory analytical reports are provided in **Appendices L through Q** based on media type.

The following sections present a discussion of results starting with Site groundwater followed by the identified areas.

5.1 Groundwater Analytical Data

No COCs were detected above screening levels in groundwater samples collected from monitoring wells MW-1 through MW-6.

5.2 Former East Ravine

Table 1 summarizes the PCB detections in soil samples collected from the fifty-one (51) soil borings advanced in and around the Former East Ravine. Of the two-hundred and forty eight (248) samples tested for PCBs, twenty-three (23) exhibited concentrations above the screening level of 1 ppm and these exceedances were confined to a limited, contiguous area within the east half of the Site. A spider diagram is provided on **Figure 9** which indicates the PCB levels exceeding the 1 and 50 ppm levels are limited to the former ravine area and to a depth of less than 11 ft except for an outlier at S-39 from 14 to 16 ft deep. PCB data from the Weston Site Assessment Report dated September 28, 2012 is provided on **Figure 9** for reference.

Table 2 summarizes the COCs (VOCs, SVOCs, TAL Metals, pesticides/herbicides) detected above the screening levels in soil samples. Detections for SVOCs and pesticides/herbicides were all below the screening levels. Arsenic was detected at two locations slightly above the average background level, but within the background range for Sandusky County at S-15 (1 to 2 ft) and S-49 (4 to 6 ft).

Cobalt was detected at 24 ppm at S-50 (1 to 2 ft) which is slightly above the screening level of 23 ppm, but within the background range for Ohio soils (Cox-Colvin, 1996).

The remaining screening level exceedances were confined to the dark gray fill material and consisted of:

- Naphthalene within the 6 ft to 8 ft samples of S-31 and S-46;
- Cobalt within the 7 ft to 9 ft sample of S-35, the 6 ft to 8 ft sample of S-46;
- Nickel within the 7 ft to 9 ft sample of S-35;
- Arsenic within the 8 ft to 10 ft sample of S-42; and
- Antimony in 7 ft to 9 ft sample of S-35.

5.3 Soil Stockpiles

Table 3 summarizes the COCs above screening levels at the eight (8) surface soil samples collected from the soil stockpiles located on the east half of the Site. Asbestos was detected at trace levels from surface soil sample of SS-7. The floor tile encounter on the stockpile surface near SS-7 tested positive for asbestos containing material.

5.4 Fill Area

Table 4 provides a summary of COCs detected above screening levels. Of the SVOC detections, benzo(a) anthracene was detected above screening levels for soil samples obtained from TT-3 and TT-9 at depths of 0 ft to 3 ft and 9 ft to 10 ft, respectively. The TT-3 sample also exceeded screening levels for benzo(a)pyrene, benzo(b) fluoranthene, and indeno(1,2,3-cd)pyrene.

No SVOCs, TAL metals or pesticides/herbicides were detected above the screening levels.

5.5 Flag Run Creek

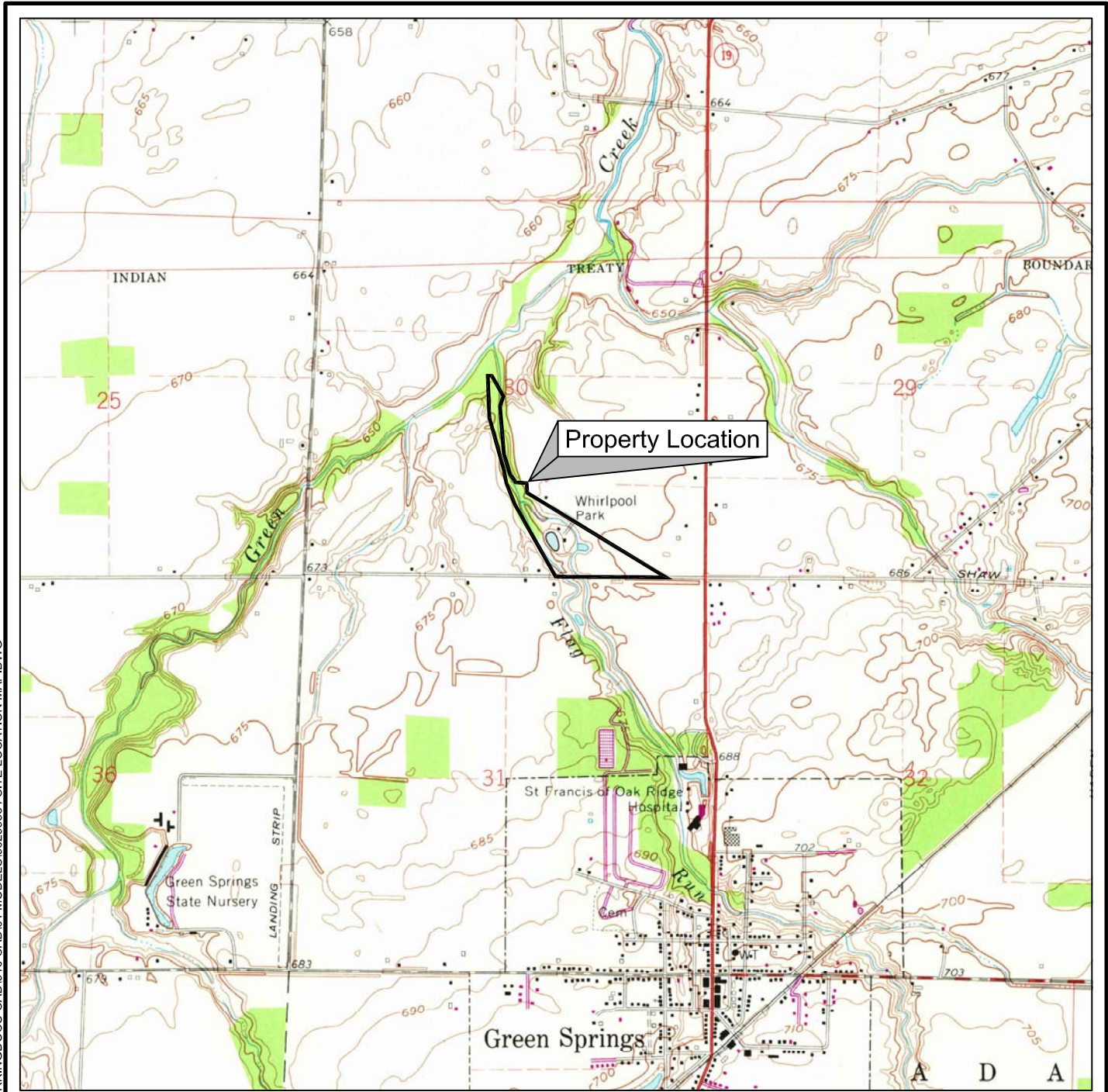
Table 5 summarizes the COCs detected above screening levels from seven (7) sediment samples. Arsenic was detected slightly above the background screening level of 13.2 ppm in SED-4 at 14 ppm which is within the background range for Sandusky County. No other COCs were detected above screening levels.

No COCs were detected in surface water above the Ohio surface water quality screening levels at the eight (8) locations where surface water samples were obtained.

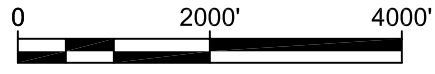
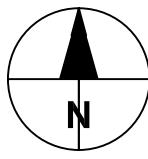
5.6 AST and Shed Filters

Samples were collected from filter media at two (2) 10,000-gallon above ground storage tanks (ASTs) west of the pool across Flag Run Creek and two (2) hand auger borings from beneath each tank; three (3) filter tanks within the shed north of the pool; and one (1) hand auger boring southwest of the shed. No COCs for both pool filter media and soil were detected above screening levels.

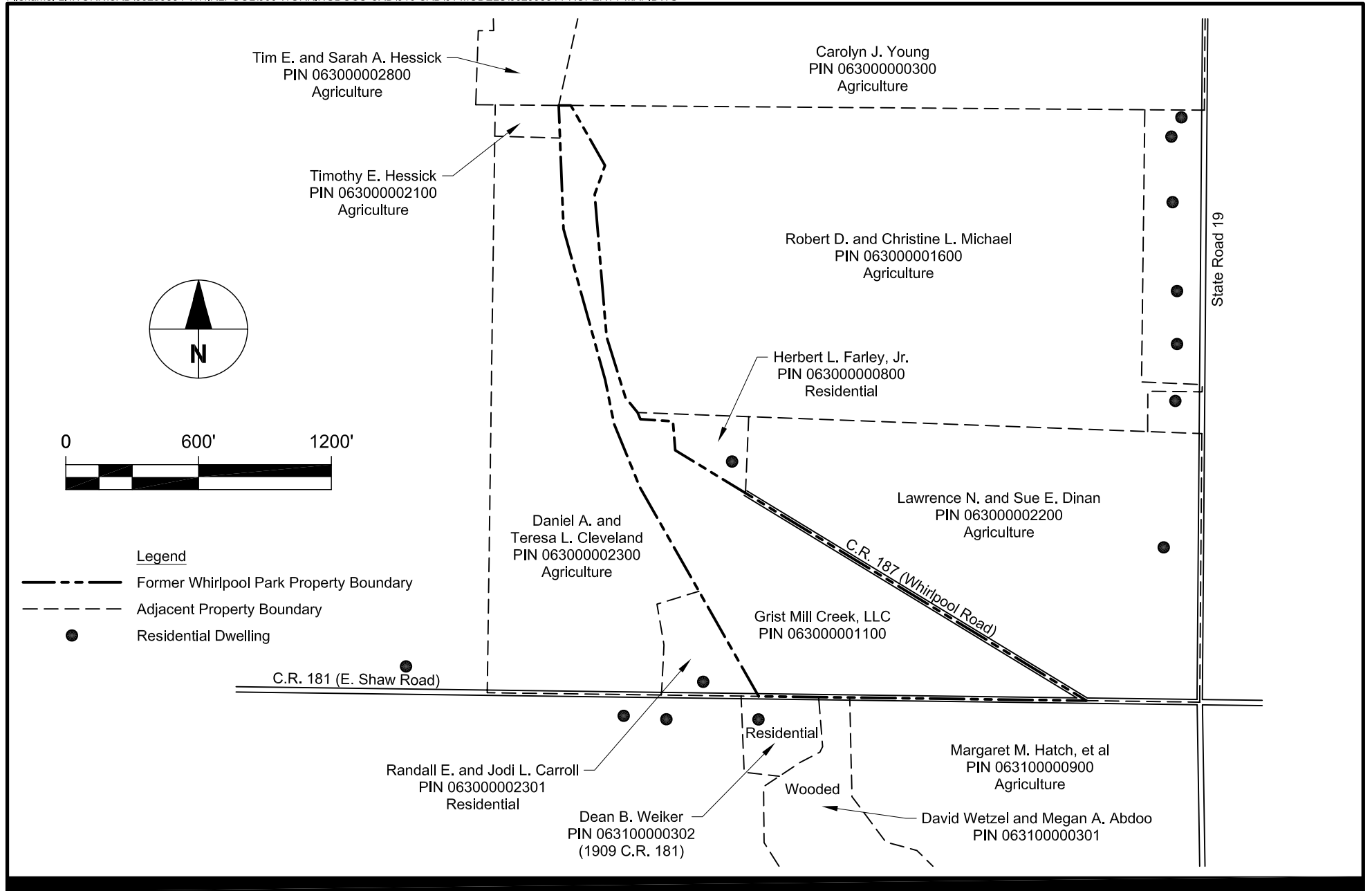
Figures

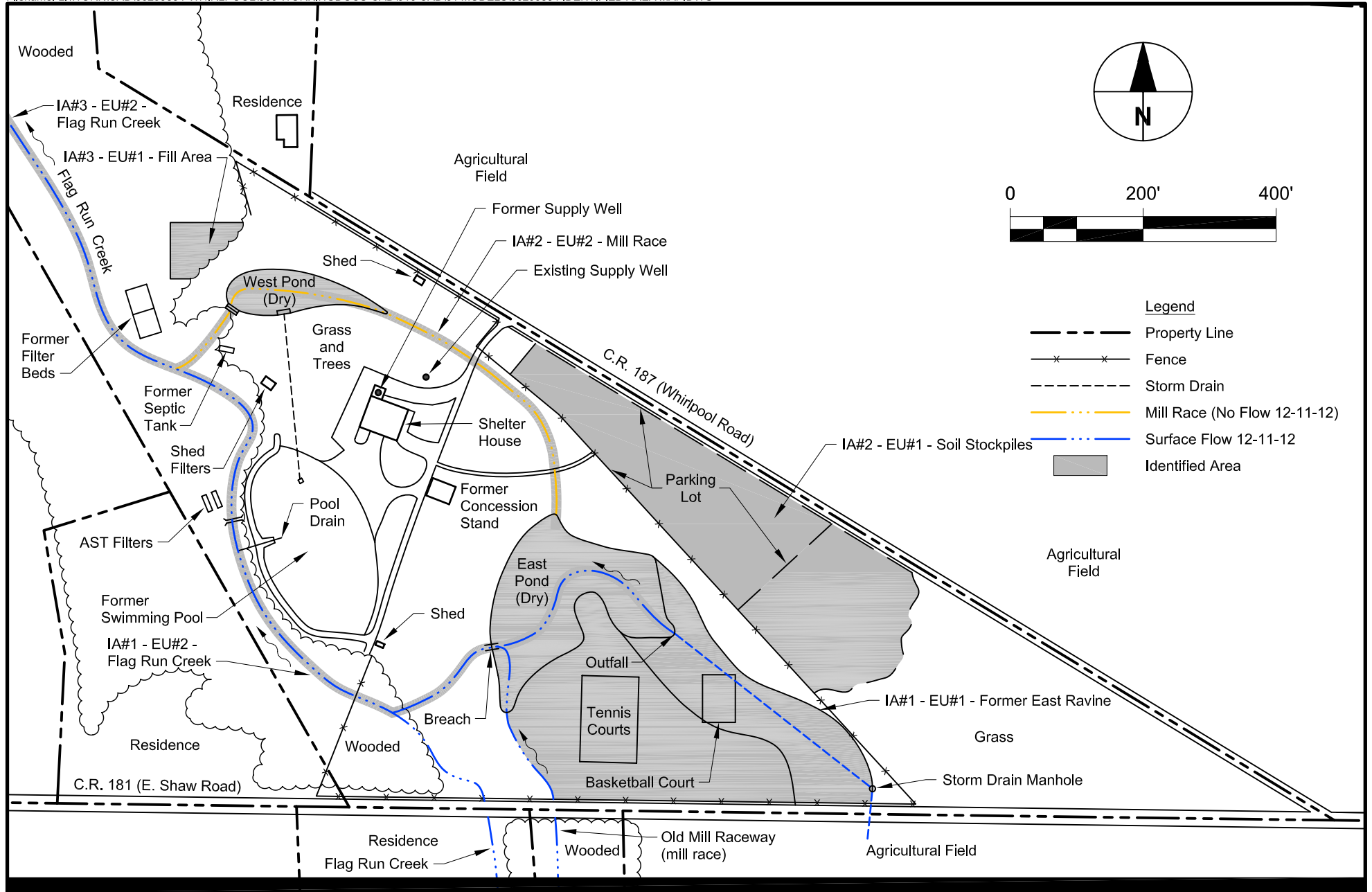


Base Taken From USGS Fremont East, Ohio
7.5'-Series Topographic Quadrangle.
Date: 1969. Photorevised: 1980. Scale: 1"=2000'.



Quadrangle Location





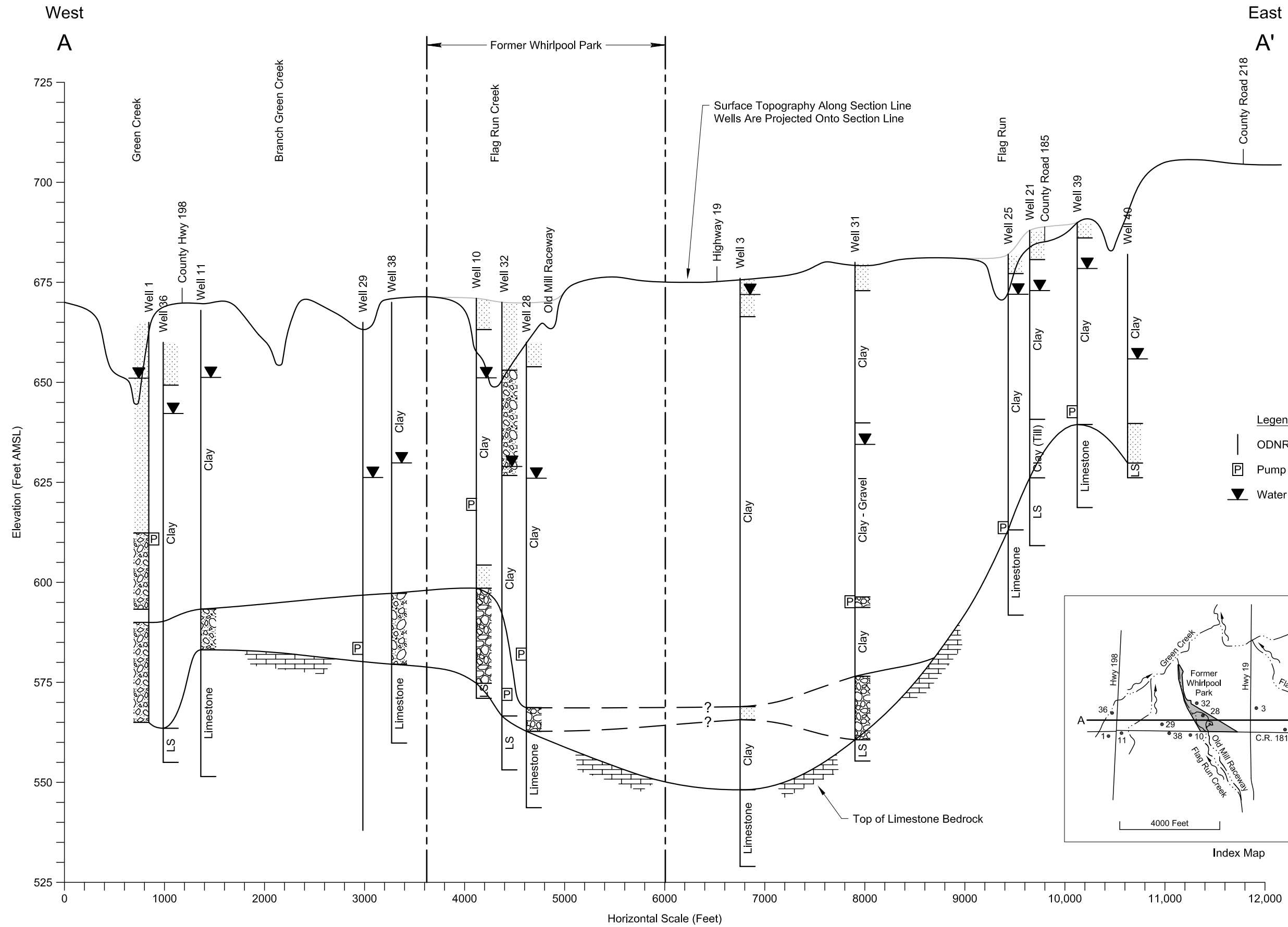
SITE ASSESSMENT REPORT
FORMER WHIRLPOOL PARK
 GREEN SPRINGS, OHIO

Project No.: 60299534 Date: 2013-08-28

IDENTIFIED AREA MAP

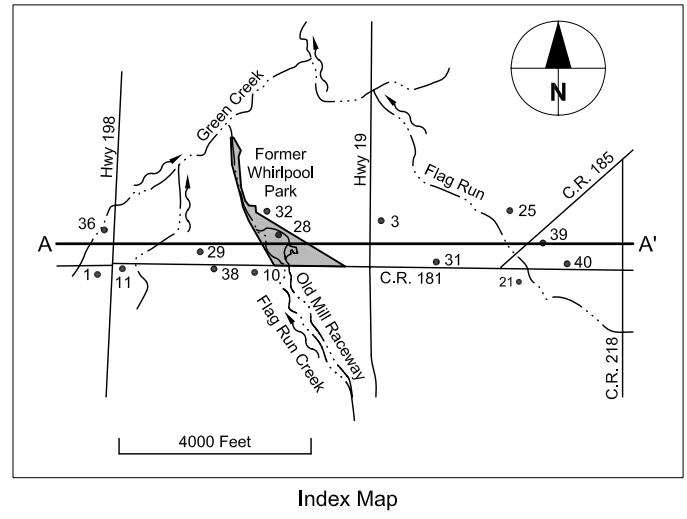


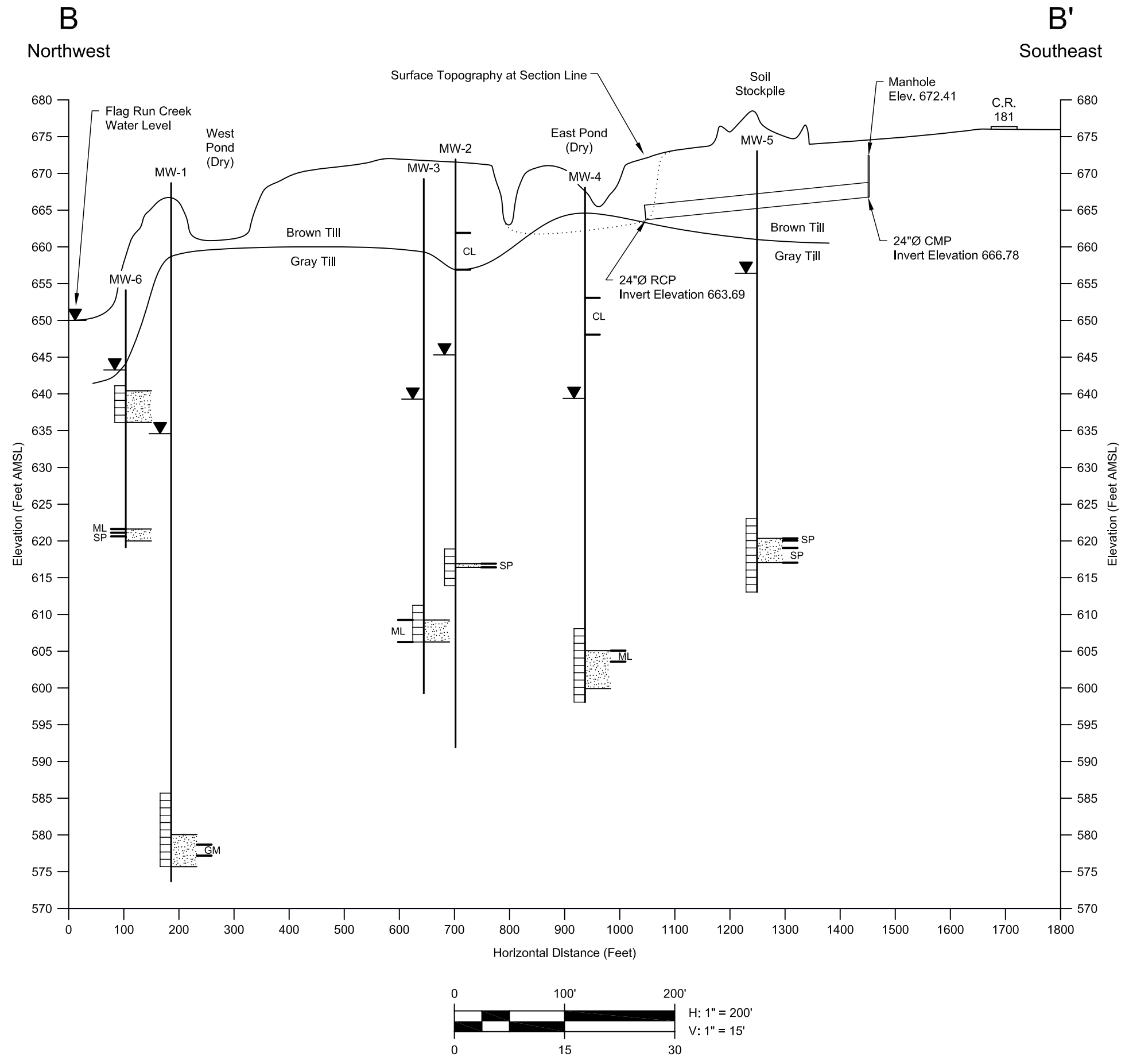
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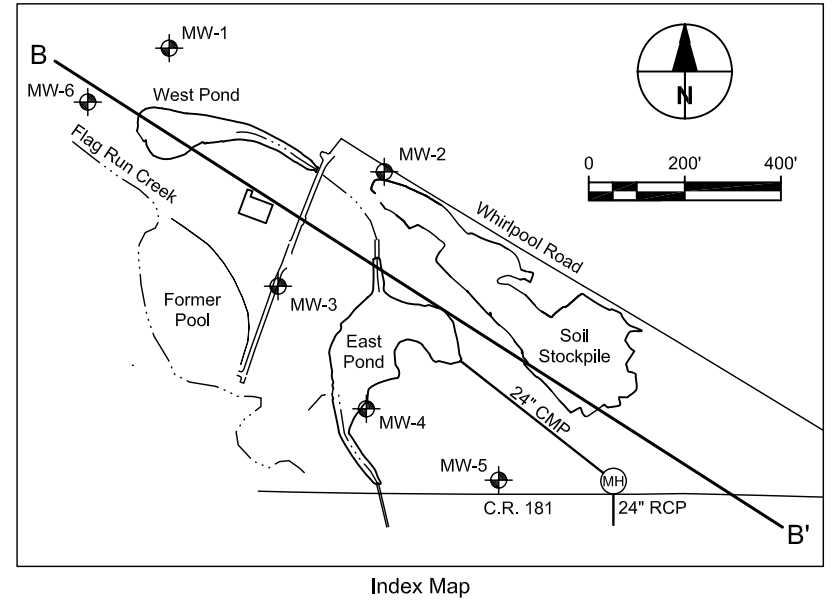
Horizontal Scale: 1"=1000'
 Vertical Scale: 1"= 25'

- Legend**
- ODNR Well Log
 - Pump Depth
 - ▼ Water Level

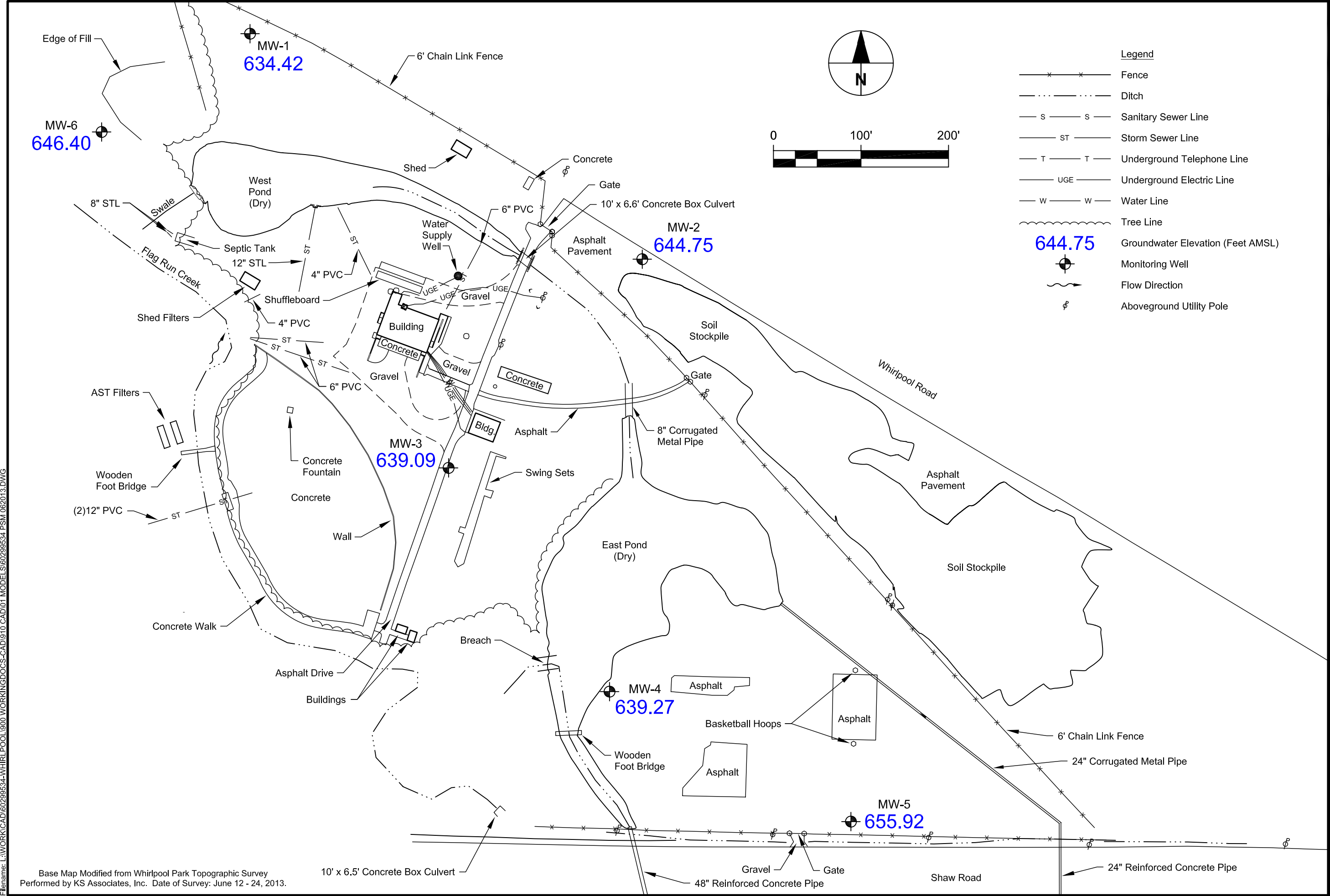




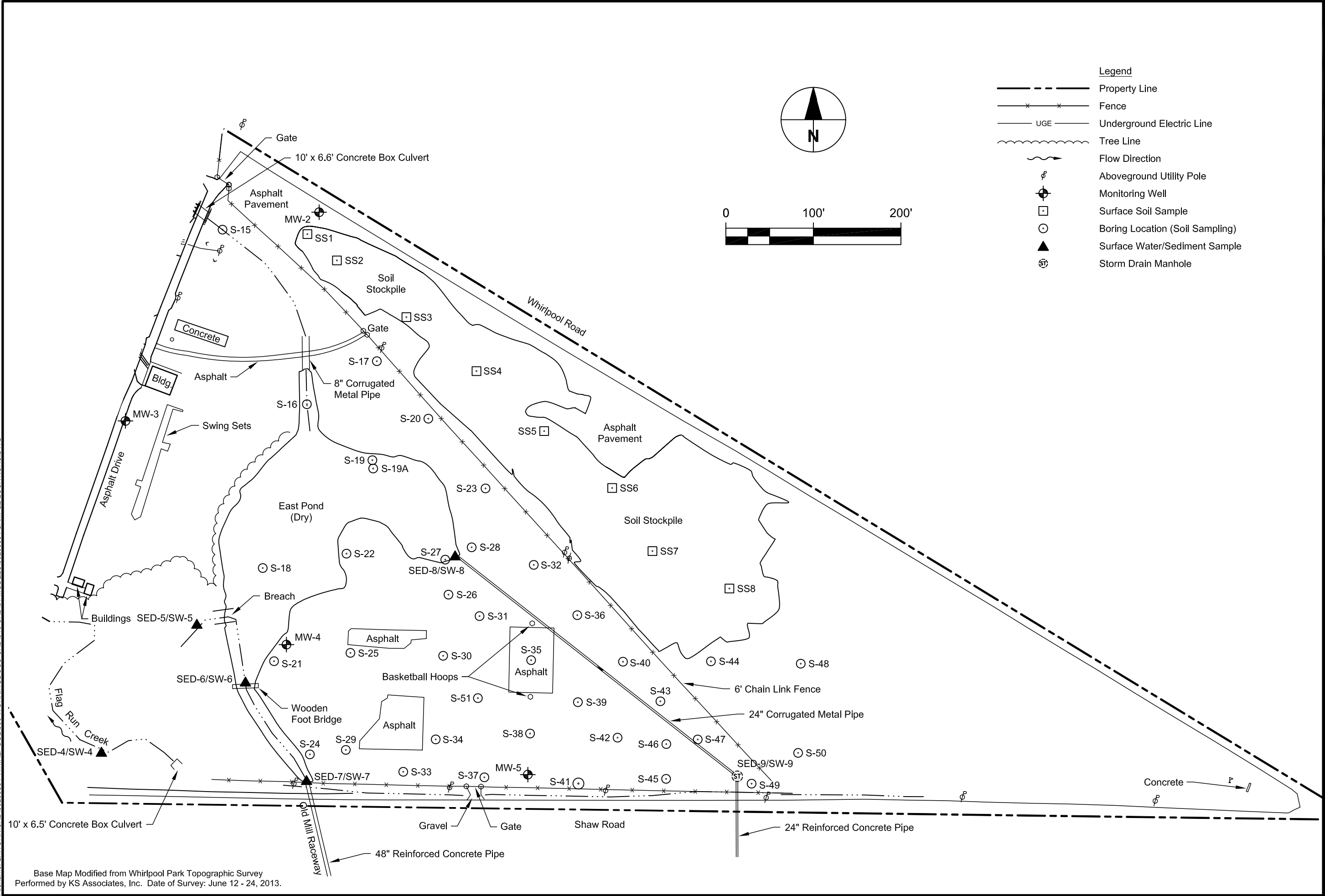
- Legend**
- Borehole
 - Ground Water Elevation - June 20, 2013
 - Well Screen
 - Geotechnical Testing Results (USCS Soil Classification)
 - Granular Layer
- Lithology**
- CL Lean Clay or Lean Clay with Sand
 - GM Silty Gravel with Sand
 - ML Silt or Sandy Silt
 - SP Sand or Gravelly Sand



Project Management Initials: Designer: NLW Checked: MP Approved: ANSIB 11" x 17" Last saved by: WILZBACHERN(2013-08-28) Last Plotted: 2013-08-28 Filename: L:\WORK\CAD\60299534-WHIRLPOOL\900 WORKING\DOCS-CAD\910 CAD\01 MODEL\60299534 PSM_062013.DWG

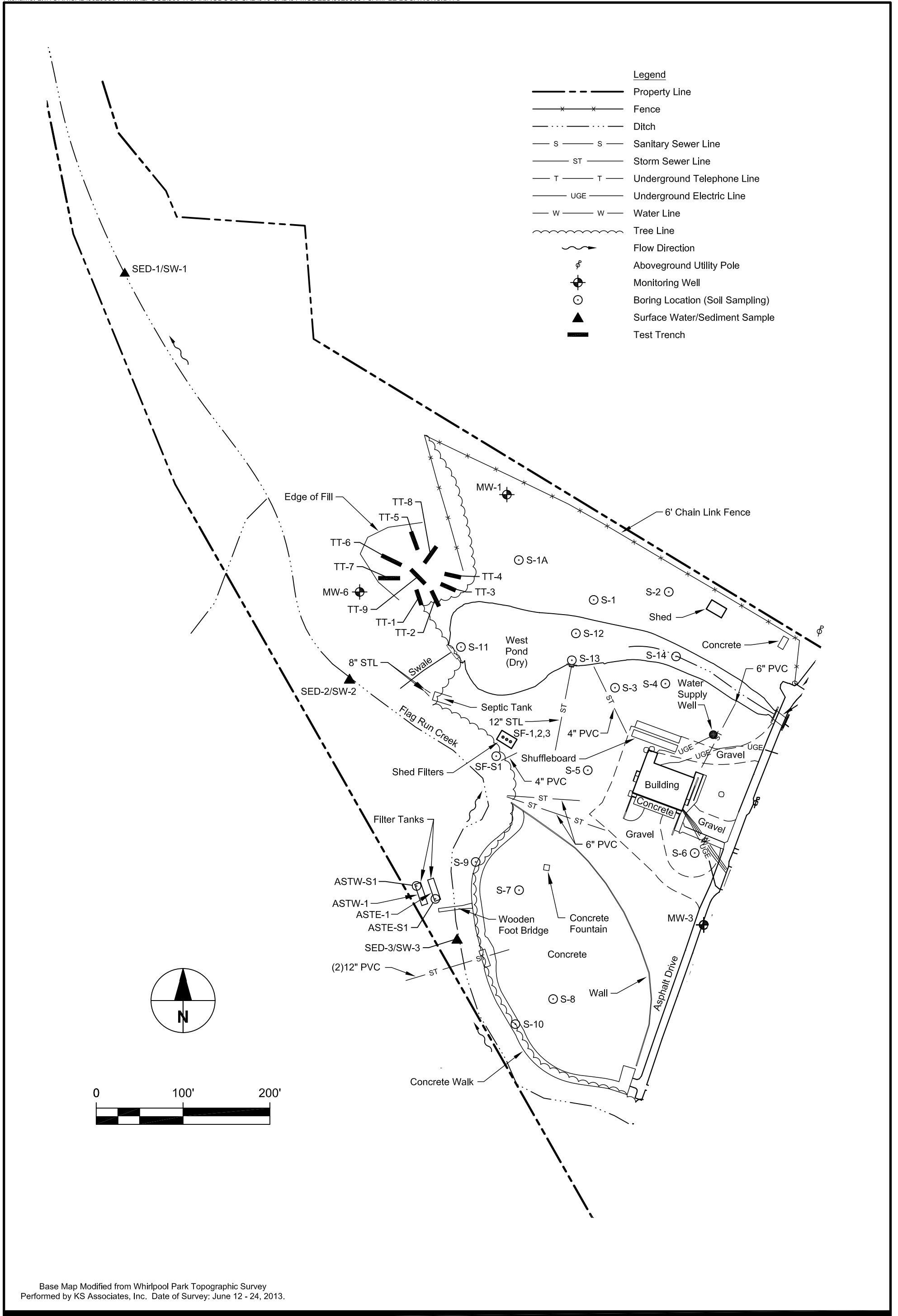


Base Map Modified from Whirlpool Park Topographic Survey
 Performed by KS Associates, Inc. Date of Survey: June 12 - 24, 2013.

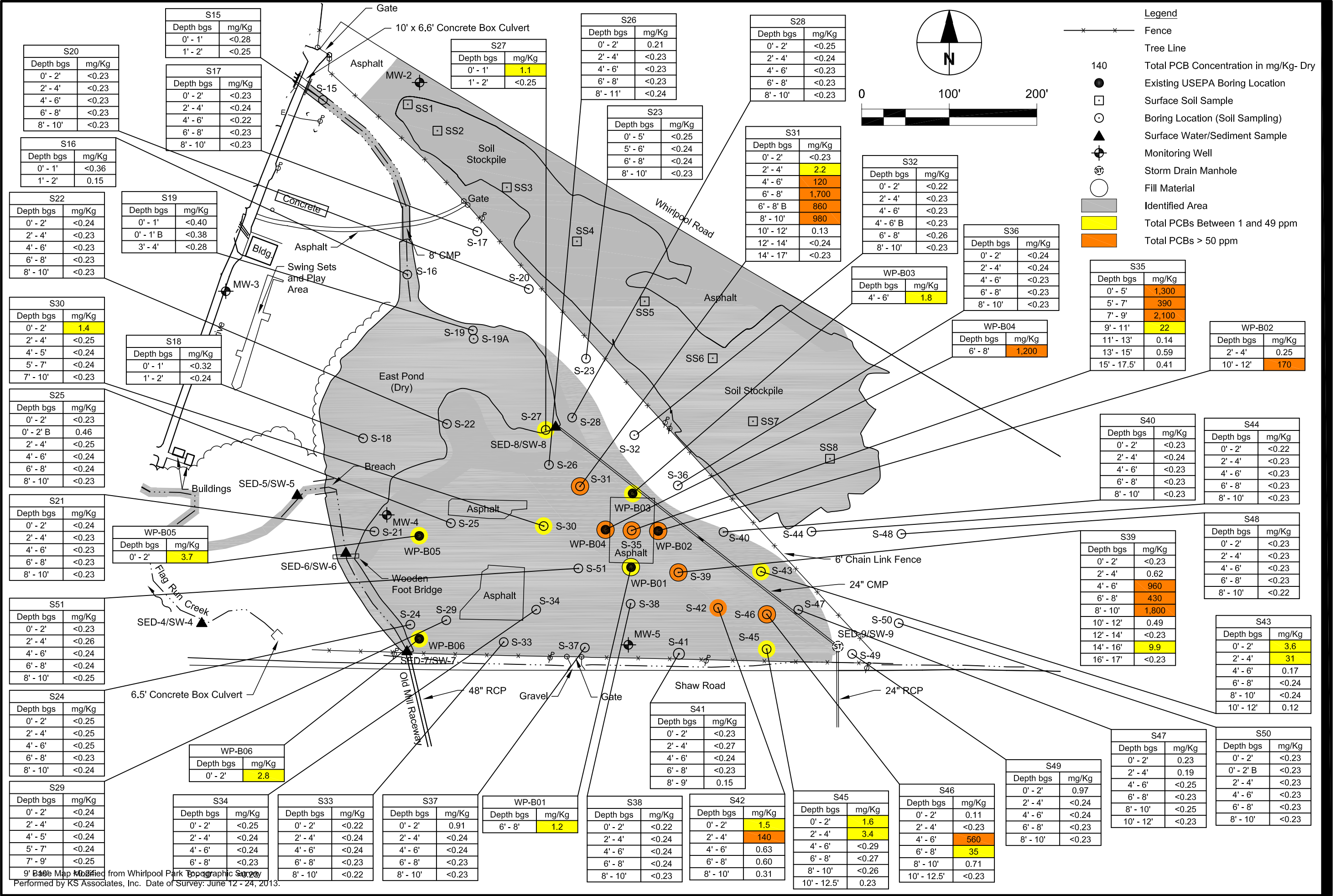


Base Map Modified from Whirlpool Park Topographic Survey
 Performed by KS Associates, Inc. Date of Survey: June 12 - 24, 2013.

**SAMPLE LOCATION MAP
 EAST HALF**



Base Map Modified from Whirlpool Park Topographic Survey
 Performed by KS Associates, Inc. Date of Survey: June 12 - 24, 2013.



9' Base Map Modified from Whirlpool Park Topographic Survey
 Performed by KS Associates, Inc. Date of Survey: June 12 - 24, 2013.

Tables

Table 1
Former Whirlpool Park
PCB Screening Levels Exceeding TSCA Unrestricted Use Standards
(Soil Borings)

		Analytical Parameter	Total PCBs²
		Analytical Method	SW8082
		Unit	mg/kg
		Screening Criterion¹	1.0
Field Sample ID	Sampling Date	Sampling Depth (feet bgs)	
S27-0001	30-May-2013	0-1	1.1
S30-0002	22-May-2013	0-2	1.4
S31-0204	22-May-2013	2-4	2.2
S31-0406	22-May-2013	4-6	120
S31-0608	22-May-2013	6-8	1,700
S31-0608-B	22-May-2013	6-8	860
S31-0810	22-May-2013	8-10	980
S35-0005	22-May-2013	0-5	1,300
S35-0507	22-May-2013	5-7	390
S35-0709	22-May-2013	7-9	2,100
S35-0911	22-May-2013	9-11	22
S39-0406	23-May-2013	4-6	960
S39-0608	23-May-2013	6-8	430
S39-0810	23-May-2013	8-10	1,800
S39-1416	23-May-2013	14-16	9.9
S42-0002	23-May-2013	0-2	1.5
S42-0204	23-May-2013	2-4	140
S43-0002	23-May-2013	0-2	3.6
S43-0204	23-May-2013	2-4	31
S45-0002	23-May-2013	0-2	1.6
S45-0204	23-May-2013	2-4	3.4
S46-0406	23-May-2013	4-6	560
S46-0608	23-May-2013	6-8	35

Notes:

bgs = Below ground surface

ID = Identification

mg/kg = Milligram per kilogram

PCB = Polychlorinated biphenyl

U.S. EPA = United States Environmental Protection Agency

1 Screening criteria is TSCA (Toxic Substance Control Act) unrestricted-use standard.

2 Only Aroclor 1254 detected at levels exceeding TSCA unrestricted use standards.

TABLE 2
Former Whirlpool Park
COC Screening Level Exceedances (Soil Borings)

		Field Sample ID		S31-0608	S46-0608
		Sampling Date		5/22/2013	5/23/2013
		Sampling Depth (feet bgs)		6-8	6-8
Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result	
VOCs					
SW8260	Naphthalene	mg/kg	3.6	6.9	10

		Field Sample ID		S35-0709	S46-0608	S50-0002
		Sampling Date		5/22/2013	5/23/2013	5/24/2013
		Sampling Depth (feet bgs)		7-9	6-8	0-2
Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result		
TAL Metals						
SW6010B	Antimony	mg/kg	31	49	—	—
SW6010B	Cobalt	mg/kg	23	660	240	24
SW6010B	Nickel	mg/kg	1,500	1,900	—	—

		Field Sample ID		S15-0102	S42-0810	S49-0406
		Sampling Date		5/30/2013	5/23/2013	5/23/2013
		Sampling Depth (feet bgs)		1-2	8-10	4-6
Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result		
TAL Metals						
SW6010B	Arsenic	mg/kg	13.197 ²	14	130	15

Notes:

bgs = Below ground surface

ID = Identification

mg/kg = Milligram per kilogram

RSL = Regional Screening Level

— Not Detected or Below RSL

TAL = Target Analyte List

U.S. EPA = United States Environmental Protection Agency

1 USEPA Regional Screening Levels (RSLs) for Residential Soil (November 2012).

2 USGS, National Geochemical Survey mean average arsenic concentration in Sandusky County, Ohio (2008).

TABLE 3
Former Whirlpool Park
COC Screening Level Exceedances (Stockpiles)

		Field Sample ID		SS7-000.5
		Sampling Date		20-May-2013
		Sampling Depth (feet bgs)		0-0.5
Analytical Method	Analytical Parameter	Unit	USEPA RSLs¹	
Asbestos				
PLM Method ²	Total Asbestos	%	NA	TRACE ³

Notes:

bgs = Below ground surface

ID = Identification

% = % Total Asbestos

NA = Not available

RSL = Regional Screening Level

U.S. EPA = United States Environmental Protection Agency

1 USEPA Regional Screening Levels (RSLs) for Residential Soil (November 2012).

2 PLM = Polarized Light Microscopy

3 TRACE = <1%

TABLE 4
Former Whirlpool Park
COC Screening Level Exceedances (Test Trenches)

		Field Sample ID		TT-3-53013	TT-9-53013
		Sampling Date		30-May-2013	30-May-2013
		Sampling Depth (feet bgs)		0-2	9-10
Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result	
SVOCs					
SW8270C	Benzo(a)anthracene	mg/kg	0.15	1.8	0.42
SW8270C	Benzo(a)pyrene	mg/kg	0.015	1.3	—
SW8270C	Benzo(b)fluoranthene	mg/kg	0.15	1.4	—
SW8270C	Indeno(1,2,3-cd)pyrene	mg/kg	0.15	0.63	—

Notes:

bgs = Below ground surface

ID = Identification

mg/kg = Milligram per kilogram

RSL = Regional Screening Level

SVOC = Semivolatile organic compound

— Not Detected or Below RSL

U.S. EPA = United States Environmental Protection Agency

1 USEPA Regional Screening Levels (RSLs) for Residential Soil (November 2012).

TABLE 5
Former Whirlpool Park
COC Screening Level Exceedances (Sediments)

		Field Sample ID		SED-4-0001
		Sampling Date		22-May-2013
		Sampling Depth (feet bgs)		0-1
Analytical Method	Analytical Parameter	Unit	USEPA RSLs¹	Result
TAL Metals				
SW6010B	Arsenic	mg/kg	13.197 ²	14

Notes:

bgs = Below ground surface

ID = Identification

mg/kg = Milligram per kilogram

RSL = Regional Screening Level

TAL = Target Analyte List

U.S. EPA = United States Environmental Protection Agency

1 USEPA Regional Screening Levels (RSLs) for Residential Soil (November 2012).

2 USGS, National Geochemical Survey mean average arsenic concentration in Sandusky County, Ohio (2008).

Appendices

Appendix A

Final Phase II Work Plan

Ohio Voluntary Action Program (VAP)

Final Draft VAP Phase II Work Plan

Former Whirlpool Park
County Road 187
Green Springs, Ohio 43410

April 17, 2013

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Appendix A IA Preliminary Exposure Pathway Summaries

List of Acronyms

AECOM	AECOM Technical Services
AST	Above Ground Storage Tank
bgs	below ground surface
CAH	Chlorinated aliphatic hydrocarbons
CL	Lean Clay
COCs	Constituents of Concern
CP	Certified Professional
CS	Fat Clay
DA	de minimis area
DGS	Division of Geological Survey
EPA	Environmental Protection Agency
ER	Electrical Resistivity
FSP	Field Sampling Plan
ft	Feet
FWP	Former Whirlpool Park
ft/ft	Feet per Foot
gpm	gallons per minute
GUPUS	Generic Unrestricted Potable Use Standards
HASP	Health and Safety Plan
IA	Identified Area
mg/kg	milligrams per kilograms
msl	Mean Sea Level
MW	Monitoring Well
µg/L	Micrograms per Liter
OAC	Ohio Administrative Code
OEPA	Ohio Environmental Protection Agency
ODNR	Ohio Department of Natural Resources
O&M	Operation and Maintenance
PA	Property Assessment
POGWMUPUS	Protection of Groundwater meeting GUPUS
RC	Representative Concentration
RMP	Risk Mitigation Plan
SCS	Soil Classification System
TAL	Target Analyte List
TGM	Technical Guidance Manual
UPUS	Unrestricted Potable Use Standards
USCS	Unified Soil Classification System
USDA	United States Department of Agriculture
USGS	United States Geological Survey
VAP	Voluntary Action Program
VOCs	Volatile Organic Compounds

1.0 Introduction

This VAP Phase II Property Assessment (PA) Work Plan was developed in support of the environmental assessment of the Former Whirlpool Park (FWP) site located at County Road 187, Green Springs, Ohio. This work plan was prepared in general accordance with the Ohio Environmental Protection Agency (OEPA) Voluntary Action Program (VAP) Rule 7 (Ohio Administrative Code (OAC) 3745-300-07 dated April 23, 2012). The VAP Phase I PA (date) determined the location of three (3) Identified Areas (IAs) on the Property. The purpose of this Phase II Work Plan is to describe sampling activities needed to determine if the IAs meet VAP applicable standards.

2.0 Phase I Summary

2.1 Property Identification

The Property is located about one mile north of Green Springs, Ohio in Sandusky County as shown on Figure 1, Property Location Map (USGS, 1980). The Property consists of an odd-shaped parcel of 27 acres with the main southern area consisting of a 20-acre triangle (South Triangle) and the remaining seven acres a narrow strip of land extending to the north along Flag Run Creek (North Leg). The Property is situated in a rural area of southern Sandusky County in a region used mostly for agricultural purposes as shown on Figure 2.

2.2 Eligibility

The Property is eligible to participate in the VAP, although remedial obligations under the Toxic Substance Control Act (TSCA) would need to be satisfied prior to submittal of a VAP No Further Action (NFA) Letter.

2.3 Identified Areas

The Phase I PA resulted in the recognition of three (3) IAs, as shown on Figure 3, Identified Area Map. A detailed description of each IA and associated COCs is provided below:

IA#1 – Former East Ravine – VOCs, SVOCs, TAL Metals, pesticides and herbicides, PCBs – The area between the existing manhole and the culvert outfall to the East Pond is a former ravine which may have been partially filled in 1954 with excavated soil from construction of the former swimming pool area in 1954. Information provided in this report indicates that a culvert and manhole were later installed in 1959 with the culvert and ravine filled to match surface grade sometime between 1960 and 1964 at least partially with a gray fill material (origin unknown). The fill depth is up to 11 ft deep and sampling conducted by USEPA in 2012 indicates the presence of PCBs, cobalt and nickel above agency screening levels.

IA#2 – Soil Stockpiles – Asbestos, lead, mercury – Stockpiles of soil have been placed on the parking lot and beyond the east edge of the parking lot paving since the property was sold by Whirlpool in 2008. The stockpiles are reportedly associated with construction activity conducted by a contractor during construction of the new elementary school in Green Springs, Ohio.

IA#3 – Fill Area – VOCs, SVOCs, TAL Metals, pesticides and herbicides, PCBs– Although no known COCs would be associated with the demolished former grist mill, material from a manufacturing plant, paint materials, empty rusted drums and a former gasoline AST may have impacted soil and groundwater at this area of the property.

2.4 De Minimis Areas

The Phase I PA did not identify any de minimis areas.

2.5 Adjacent Properties

There was one off-site source discovered that may impact the VAP Property. Based on interview information, fill material was placed on the property located directly south and adjacent to the FWP property at 1909 County Road 181 in 1953. An aerial photo from 1976 also indicates a fill area at this location. Origin of the fill material is unknown and reportedly did not originate from the FWP site and is up-gradient of the FWP site.

3.0 Subsurface Conditions

The Property is situated within the Huron-Erie Lake Plains physiographic region of Ohio, which is characterized as a flat, low-lying portion of the state underlain by glacial till, glacial lacustrine clays and beach ridge sands that overlie primarily limestone bedrock (Ohio Division of Geologic Survey, 1998). According to the Ohio Department of Natural Resources (ODNR) Groundwater Resources Map of Sandusky County published in 1980 (Schmidt, 1980), the Property lies in an area of clayey glacial till occasionally containing inter-bedded sand and gravel lenses within a buried valley aquifer system that trends northward toward Lake Erie. Yields in the buried valley system range (Ohio Division of Geologic Survey, 1998) from 25 to 100 gpm in the unconsolidated deposits.

An ODNR well survey conducted for the Phase I PA indicated the presence of 40 water supply wells within a one-mile radius of the Property. The ODNR driller logs were used to construct a generalized regional geologic cross-section taken in an east-west direction as shown on Figure 4. Figure 4 indicates the presence of a north-south trending buried bedrock valley filled with a clay-based glacial till with inter-bedded sand and gravel layers or lenses. Depth to bedrock varies from 50 to 125 ft bgs within the region and varies from 75 to 125 ft deep beneath the property (Schmidt, 1980). A significant sand and gravel layer up to 20 ft thick appears to be present atop the bedrock in the vicinity of the property. In the vicinity of the Property there appears to be a shallow groundwater potentiometric surface associated with the Flag Run Creek water level near Elevation 650 ft and a deeper water level near Elevation 630 ft.

4.0 Sampling History

One environmental assessment limited to shallow soil sampling and testing was conducted on a small portion of the South Triangle by the United States Environmental Protection Agency (USEPA) as described in a report dated September 28, 2012 (Weston, 2012). Six soil borings were advanced on June 15, 2012 ranging in depth from 8 to 16 below ground surface (bgs) near the existing tennis court and basketball court. Each soil core sample was field-screened at 2-foot intervals for volatile organic compounds (VOC) using a photoionization detector (PID). Sampling

locations and depth intervals were selected based on historical data, field conditions and PID field screening results. Up to two soil samples were collected from each soil boring and analyzed for:

- Total volatile organic compounds (VOCs);
- Total semi-volatile organic compounds (SVOCs);
- Target Analyte List (TAL) metals;
- Boron and hexavalent chromium;
- Total pesticides and herbicides;
- Polychlorinated biphenyls (PCBs);
- Toxicity Characteristic Leaching Procedure (TCLP) metals, VOCs, SVOCs, pesticides and herbicides.

Results indicate that the subsurface materials consist of a thin veneer of topsoil and/or sandy silt at the surface underlain by brown silty clay and brown glacial till to the maximum depth explored of 16 ft bgs. Fill material was encountered at three of the four boring locations around the basketball court ranging from two to nine feet thick with a maximum depth of 11 ft bgs. Analytical results indicated that PCBs, cobalt and nickel were detected at levels exceeding USEPA Regional Screening Levels (RSL) for residential properties. PCBs were detected in soil samples obtained from the 0 to 12 ft depth range with six samples exhibiting PCB concentrations above the TSCA High Occupancy Remediation standard of 1 mg/kg, of which two samples exhibited PCB concentrations above the TSCA remediation waste threshold of 50 mg/kg.

5.0 Exposure Pathway Analysis

A preliminary exposure pathway assessment was conducted for each IA in order to develop a sampling rationale to determine sampling required to complete the draft VAP Phase II PA report. This analysis included an evaluation of the existing and potential exposure pathways and identification of sources, source areas, affected media contributing to the pathway, identification of receptors and applicable points of compliance. The results of the preliminary exposure pathway analysis for each IA including transport mechanism, receptors and explanation for elimination of a pathway, if appropriate, is provided in Appendix A and summarized below.

5.1 Identified Areas

The exposure pathway analysis for each IA was conducted assuming future residential property use and potential ecologic resources are present due to the non-urban area at which the property is located. The following pathways were determined to be potentially complete for the IAs at the Property:

Property

1. Soil to direct contact residential;
2. Soil to direct contact construction worker;
3. Soil leaching to groundwater;
4. Soil vapor intrusion from soil and groundwater to indoor air;
5. Soil to ecological;

6. Surface water to non-potable use;
7. Surface water to ecological;
8. Sediment direct contact to residential; and
9. Sediment to ecological.

Off-Property

1. Surface water to non-potable use;
2. Surface water to ecological;
3. Sediment direct contact to residential; and
4. Sediment to ecological.

Exposure pathways to groundwater cannot be determined until groundwater is sampled, tested and classified, if needed, to determine groundwater response requirements as described below.

5.2 Groundwater

5.2.1 Groundwater Classification

In accordance with OAC 3745-300-10(A), groundwater underlying the Property must be classified if COCs in groundwater exceed Generic Unrestricted Potable Use Standards (GUPUS). Once groundwater is sampled and tested and this is determined, groundwater may require classification so that minimum groundwater response requirements can be determined in accordance with 3745-300-10(E). Yield testing of monitoring wells screened within the unconsolidated saturated zone will be performed in accordance with OAC 3745-300-07(D)(9) to determine the representative adjusted yield for groundwater classification purposes. It is likely that the unconsolidated saturated zone, however, does not qualify as critical resource groundwater since:

1. The groundwater is not used by a public water system;
2. The groundwater is not in a drinking water source protection area; and
3. The yield is likely not greater than 100 gpm as noted on ODNR well logs within a one-mile radius of the Property (Schmidt, 1980).

It is anticipated that an upper and lower unconsolidated saturated zone may be present beneath the property within water-bearing sand and gravel lenses.

5.2.2 POGWMUPUS Determination

In accordance with VAP rule 3745-300-07(D)(4), the Volunteer is required to make a demonstration that the COCs on the Property did not or will not cause COCs in a lower saturated zone to exceed GUPUS, otherwise known as protection of groundwater meeting GUPUS (POGWMUPUS). This determination will be made after information on COCs in groundwater and groundwater classification is determined.

5.2.3 Anthropogenic Influence

The Property has not been sufficiently investigated to determine if anthropogenic features (e.g., underground utilities, pipes and other potential preferential migration conduits) are present on the Property that could potentially influence groundwater flow and vapor migration characteristics and COC distribution.

6.0 Sampling Rationale

6.1 Data Quality Objectives

The data quality objective (DQO) process is a requirement of VAP rule OAC 3745-300-07(C) and is typically used to define the type, quantity and quality of data needed to support the decision making process. The main elements of this process consist of identification of applicable standards, evaluation of historic data, identified areas to be assessed, exposure pathway evaluation, data acceptance criteria and development of a sampling rationale for each identified area.

Data collection activities and data analysis generally follow those procedures outlined in OAC Rule 3745-300-07(D), various VAP Technical Guidance Compendium (Ohio EPA, 2012), and the *USEPA Guidance on Systematic Planning Using the Data Quality Objectives Process* dated February 2006 for data quality assessment (U.S. EPA., 2006). The DQO process also ensures that sampling procedures are consistent with quality requirements of the certified laboratory, that the laboratory is capable and VAP-certified for the specific analysis conducted and that acceptable quality assurance and quality control procedures have been established as outlined in Section 8.0 of this work plan.

6.2 Applicable Standards Review

An applicable standard comparison was conducted for each IA to identify potential action levels for results comparison and is provided on Table 1, Applicable Standards Summary. Table 1 presents a comparison for each IA potential COC, media affected, potentially completed pathway, point of compliance (POC) and the proposed applicable standard. As previously noted, groundwater response requirements and standards for soil leaching to groundwater will be developed once groundwater has been sampled and tested. Preliminary applicable standards for soil consist of VAP generic levels for residential direct contact and temporary construction worker. The 2009 VAP rule does not provide generic standards for soil and groundwater for the vapor intrusion pathway. Action levels can be determined by modeling using the Johnson-Ettinger model and back-calculating soil and groundwater action levels based on exposure of COCs to potential receptors breathing indoor air. Surface water standards will be Ohio's water quality standards outlined in OAC 3745-1 (Ohio EPA, 2011) with the most stringent criteria applied to any one of the use designations. Based on the applicable standard comparison, the following sampling rationale has been developed for each IA.

6.3 Identified Areas

The following sampling will be conducted in order to develop representative concentrations of COCs in various media to determine if applicable standards have been met. Since completed pathways, points-of-compliance and applicable standards for surface water bodies such as the mill race, ponds and creek are different from the individual IA geographic areas, the three IAs will be subdivided into exposure units (EUs) in accordance with procedures outlined in VAP Technical Guidance Compendium VA30007.09.003 (Ohio EPA, 2012). The purpose of using EUs is to allow for

comparison of representative concentrations to the appropriate VAP standard and point-of-compliance for each IA.

6.3.1 IA#1 – Former East Ravine

IA#1 – Former East Ravine – VOCs, SVOCs, TAL Metals, pesticides and herbicides, PCBs – The former east ravine fill area will be designated EU#1, while the mill race, ponds and Flag Run Creek will be designated EU#2.

IA#1-EU#1 - The estimated limits of the fill area and the USEPA sample locations are shown on Figure 5. There are three objectives for soil sampling at IA#1-EU#1 as follows:

1. Determine vertical and horizontal limit of fill material based on visual inspection of soil samples;
2. Determine vertical and horizontal limit of known PCB-impacted soil to less than 1 mg/kg; and
3. Confirm that the remaining COCs in soil meet VAP applicable standards.

To achieve objective #1, soil borings will be advanced on an approximate 100 ft grid as shown on Figures 5 and 6. In the immediate vicinity of the former ravine, the grid is tightened to 50 ft. Additional borings may be added in order to delineate lateral extent of the fill material. Soil borings that encounter fill material will be extended at least 5 ft into native material. Soil borings that do not encounter fill material will be extended to a maximum depth of 10 ft.

To achieve objective #2, a composite soil sample of each 2–ft interval will be obtained from each boring location and submitted to the laboratory for analysis of PCBs.

To achieve objective #3, at least one sample from 50% of the boring locations will be obtained and tested for VOCs, SVOCs, TAL Metals, pesticides and herbicides. The soil sample tested from each boring will be that exhibiting the highest PID reading, the deepest soil sample obtained or from just above the first saturated zone.

IA#1-EU#2 - Since historic drainage from the fill area emptied to the mill race, including the east and west pond areas, this drainage feature will be sampled and tested. Since the mill race and ponds are currently dry, soil will be tested rather than surface water/sediment samples using the same protocol noted above by treating sediment as fill material and sampling at least 5 ft into native non-sediment soil. If drilling equipment is unable to be operated within these areas due to soft soil conditions, samples will be obtained as deep as possible using hand sampling equipment as described in Section 7.2 of this work plan.

Drainage from the mill race and pool eventually flowed to Flag Run Creek at which 4 combination surface water/sediment samples are located. At these locations, one surface water sample and two sediment samples (upper foot and

the 1 to 2 ft interval) will be sampled and submitted to the laboratory for analysis of COCs. Surface water and sediment samples, if present, will also be obtained and tested in this manner from the portion of the mill race that is still flowing, storm drain manhole, the storm drain outfall and the downstream side of the East Pond breach as shown on Figures 5 and 6.

As previously noted, depth to first groundwater and groundwater flow direction is unknown at this time and was estimated based on general geologic information provided in the VAP Phase I PA report. For this reason, 4 nested monitoring well locations (Figure 5) have been selected to sample groundwater down-gradient of IA#1. It is anticipated that each nested well will consist of two monitoring wells, one screened in the upper unconsolidated saturated zone (10 to 30 ft deep) and one screened from the lower unconsolidated saturated zone (75 to 100 ft deep). A fifth nested monitoring well (Figure 6) is also planned at the north end of the South Triangle to check water quality near the property boundary. Monitoring wells placed within the IA#1 area will be installed after the soil sampling is conducted to avoid placing monitoring wells through fill material. Monitoring wells placed through fill material will be cased off through the fill material to avoid impacting soil and groundwater below the fill material.

The first round of groundwater sampling will include analysis of all COCs with subsequent sampling events to include testing for COCs that were detected above screening levels from the first round of sampling.

6.3.2 IA#2 – Soil Stockpiles

IA#2 – Soil Stockpiles – Asbestos, lead, mercury – The soil stockpile area will be designated EU#1, while the mill race will be designated EU#2.

IA#2-EU#1 - A series of unbiased surface samples from the stockpiles will be obtained at approximate 100 ft intervals to evaluate the direct contact and leachate pathways. Deep soil samples will not be obtained at these locations due to inability to situate a drilling rig. A composite sample of the upper two feet will be obtained and submitted to the laboratory for analysis of COCs. A licensed asbestos inspector will examine the stockpiles prior to sampling to bias sample locations toward suspected asbestos containing materials.

IA#2-EU#2 - The upper 2 ft composite soil samples will be obtained from three locations within the mill race between the East and West ponds and tested for asbestos.

One nested groundwater monitoring well is proposed for the down-gradient (northwest) side of IA#2 as shown on Figure 5.

6.3.3 IA#3 – Fill Area

IA#3 – Fill Area – VOCs, SVOCs, TAL Metals, pesticides and herbicides, PCBs – The fill area will be designated EU#1, while Flag Run Creek will be designated EU#2 as shown in Figure 6.

IA#3-EU#1 – The fill area will be assessed in stages with the first stage (included in this work plan) consisting of visual verification of contents using two test trenches excavated into the fill material as shown on Figure 6. The north, west and south sides of the fill area appear to terminate on existing grades. This lateral extent will be visually verified and marked with lathes for measurement during the topographic survey of the property. Since the east side cannot be visually verified, test trenches will be placed on the east side to verify the eastern limit of fill material. The deepest soil sample or the soil sample from each test pit exhibiting odors, staining or elevated field-screening levels will be obtained and tested for COCs.

One shallow groundwater monitoring well will be placed between the fill area and Flag Run Creek as shown on Figure 6. The first round of groundwater sampling will include analysis of all COCs with subsequent sampling events to include testing for COCs that were detected above screening levels from the first round of sampling.

Since the type of fill material at IA#3 is not completely known, a 7-day Notification Letter will be submitted to the Ohio EPA in accordance with OAC 3745-27-13 (G) which states that any person proposing to obtain an authorization from the director for filling, grading, excavating, building, drilling, or mining for the purpose of sampling material, pursuant to paragraph (D)(3) of the rule, shall submit a certified notification letter to the Ohio EPA seven days prior to conducting the sampling activities.

IA#3-EU#2 - The surface water/sediment sampling in Flag Run Creek conducted for IA#1-EU#2 will be used since the same COCs will be tested.

6.4 Adjacent Properties

Due to fill material placed on the property located directly south and adjacent to the FWP at 1909 County Road 181, one shallow monitoring well will be placed on the FWP at the location shown on Figure 5 and tested at least once for VOCs, SVOCs, TAL Metals, pesticides and herbicides, PCBs with subsequent sampling events to include testing for COCs that were detected above screening levels from the first round of sampling.

7.0 Sampling Methods

This work plan has been prepared to provide Property-specific soil, groundwater, surface water and sediment sampling procedures to be used during implementation of the draft VAP Phase II Work Plan for the FWP Property. A summary of the sampling to be conducted is provided on Table 2 with proposed sample locations provided on Figures 5 and 6. Sampling procedures used for this project will be conducted in accordance with current VAP technical guidance compendium for Phase II property assessments and AECOM standard operating procedures. Groundwater monitoring well installation, development and sampling procedures will be consistent with the Ohio EPA *Technical Guidance Manual for Hydro-geologic Investigations and Groundwater Monitoring* dated February 1995 (Ohio EPA, 1995).

7.1 Pre Data Collection Field Activities

Preparation for field work will include obtaining Property access; selection and procurement of qualified subcontractors; procurement of necessary field supplies and sampling equipment; establishment of a field storage area, designation of an equipment decontamination area, designation of IDW staging area and identification of on-site and off-site utilities.

Field work will be conducted in accordance with a site-specific Health and Safety Plan (HASP) which will cover site field sampling activities. All personnel involved with the fieldwork, including subcontractors, will be required to review the HASP prior to commencing the field activities and will comply with all health and safety requirements.

An underground utility survey will be conducted prior to any vertical profiles and monitoring well installation to avoid existing subsurface structures. The survey will include:

- Public and private utility locating/marketing services
- Ground-penetrating radar (GPR) and electromagnetic locating.

Sample locations will be located at a proper distance (greater than 3 feet) from all identified underground utilities.

7.2 Surface Soil Sampling

Surface soil samples will be obtained using stainless steel trowels or stainless steel hand augers and/or slide hammer with stainless steel split spoons. If soil sampling within the mill race cannot be achieved using a track-mounted drilling rig, these samples will be collected to the maximum depth attainable using these methods. Spoons or trowels will be decontaminated between each sample in accordance with Section 8.5.

7.3 Surface Water Sampling

Surface water samples will be obtained at the same location of sediment samples immediately before and prior to sediment sampling at the locations shown on Figures 5 and 6.

Observations and measurements will be documented in the field notebook prior to sample collection at each sample point. These observations will include water depth, an estimate of stream surface-flow velocity, measurements of pH, specific conductance and temperature. Visual observations will be recorded such as excessive silting, presence of sheen, excessive foaming or other unusual condition.

Sampling will begin at the sample location most downstream and proceed progressively to the upstream locations. Samples will be collected as near to midstream (or mid-channel) as possible. Sampling at midstream may be changed in the field due to practical considerations such as safety and minimizing disturbance of sediment by the sample team if walking in the stream. The samples will be collected directly from the stream by immersing the sample bottle with its opening pointed down- stream. Alternatively, a dip sampler may be used to obtain surface water samples from the creek bank or bridge deck.

Collecting substrate and floating debris will be avoided. Sample bottles containing preservative will not be immersed in the stream. Instead, they should be filled with an intermediate laboratory supplied bottle. Samples for field parameters will be collected in a clean sample bottle.

Samples for VOC analysis will be collected first. Care will be taken to slowly fill the sample containers to prevent volatilization of the VOCs. Each VOC sample container will be filled with no head-space in the sample container. After collecting the VOC samples, the sample containers for other COCs will be filled.

7.4 Sediment Sampling

This procedure describes the basic techniques and general considerations to be followed for the collection of sediment samples. For the purposes of this work plan, sediment is defined as soil, sand, silt, clay, organic matter, or other materials that accumulate on the bottom of a water body (U.S. EPA., 1998). Sediment sample collection generally involves collection of a representative sediment sample from, or near, a water body (e.g., stream, wetland, pond, or lake) into appropriate containers.

Potential interferences could result from cross-contamination between sample locations or entrainment of non-target material in the samples will be minimized by using the following procedures:

- Approach of sample locations from downstream,
- Collection of surface water samples prior to sediment samples at individual locations and as required,
- The use of clean, decontaminated or dedicated sampling tools at each location in the field and during sediment sample processing.
- Avoidance of material (e.g., re-suspended solids) that is not representative of the medium to be sampled.

Sediment samples will be obtained by personnel using AMS hand-sampling equipment from either one of the existing foot bridges or from the bank of the creek by manually extending a Teflon dip sampler into the surface of the top sediment layer.

The AMS sampling equipment will be fitted with sediment samplers specifically designed to retain non-cohesive saturated materials. A valved core tip fills the sampler without losing the sample upon retrieval. The sampler uses a disposable plastic soil catcher that fits on the end of a 2" x 12" plastic liner. Once the soil core catcher and liner are placed on the core tip they are loaded into a standard multi-stage base section and screwed together. During deployment, the flap cap opens and allows excess air and water to escape through the top of the sampler – eliminating pressure buildup, while the sediment enters and fills the liner. When the sampler is lifted the flap closes and creates suction to assist the soil core catcher in retaining the sample. Up to four 12-inch sections can be placed in series for deeper sediment sections.

Two sediment samples from each location will be submitted to the lab for analysis: one from the 0 to 1 ft interval and one from the 1 to 2 ft interval. Transfer the contents to a stainless steel or disposable bowl for mixing prior to filling sample jars except that samples for VOCs will be collected prior to homogenization. Cap and label the container with in accordance with Section of this work plan and have all reusable equipment decontaminated in accordance with Section 8.5.

7.5 Soil Sampling

Each soil boring will be advanced using a track-mounted direct-push rig (Geoprobe® 6620DT (8,000 pounds loaded, 60 inches wide) in combination with the Geoprobe® dual-tube sampling system. The dual tube sampling system uses two sets of probe rods to collect continuous soil cores with the added benefit of providing a cased boring to eliminate contaminate migration between geologic units.

As part of this system, a larger diameter probe rod is first advanced into the subsurface to serve as an outer casing. A second smaller diameter probe rod is then advanced within the outer casing in conjunction with a sample liner. Upon reaching the depth of the outer casing, the smaller diameter rods are retracted to obtain the sample liner. This process is then repeated until the target depth has been reached. Care will be taken to minimize any potential for cross-contamination between sand units.

Each soil boring will be continuously logged by an on-site geologist. Soils will be visually classified in the field and described on the boring logs using the Unified Soil Classification System (USCS) (ASTM International, 2011). Additional soil characteristics will be noted on each boring including zones of increased and reduced porosity and permeability, moisture condition, odor and/or discoloration.

Geologic samples will be collected from each soil boring/sample location in order to evaluate subsurface stratigraphy and determine potential screen depths for groundwater monitoring wells. Samples will be retrieved from the subsurface using 4-foot long plastic Geoprobe® sample liners. If sample recovery is sufficient (>60%), each soil core will be further subdivided into 2-foot sample intervals. Photos will be collected from each soil core providing physical documentation to correlate with the soil boring logs developed in the field.

Soil samples collected from each boring will be screened in the field using a photo-ionization detector (PID) outfitted with a 10.7 EV bulb.

Following logging and sample collection, each soil boring will be properly abandoned using a cement/bentonite mixture. The mixture will be pumped into the borehole using a tremie pipe making sure that the mixture is added to the bottom of the borehole and fills the borehole until the mixture is flush with the ground surface. All reusable equipment decontaminated in accordance with Section 8.5.

7.6 Groundwater Sampling

7.6.1 Monitoring Well Installation

A total of five (5) nested (shallow and deep) and two (2) shallow groundwater monitoring wells will be installed using sonic drilling techniques (Mini-Sonic 200C (20,000 pounds loaded, 8.5 ft wide) at locations on the Property as shown on Figures 5 and 6 of this work plan. In conjunction with monitoring well installation activities, continuous coring and lithologic classification will be performed at all well borehole locations. Logging procedures will be conducted according to the procedures outlined in Section 7.5 of this work plan.

Monitoring wells will be constructed with an assembly consisting of 2-inch inner-diameter, schedule 40 polyvinyl chloride (PVC) casing and screen (with 0.010 slot size), inserted through the outer Sonic casing. The borehole diameter will be a minimum of 4 inches greater than the outside diameter of the well screen and riser pipe used to construct the monitoring wells. Well construction details will be in accordance with VAP protocols.

The screen length of each well will be based on the observed thickness of the sand and gravel unit being targeted. Well designations will be designated deep or shallow per the sample designation section of this work plan.

Each well will be centered within its borehole while clean silica sand is placed in the annular space surrounding the well screen to a depth of approximately one foot above the top of the screen. The filter pack and bentonite seal will be added to the annulus inside the sonic casing prior to removing any tooling from the borehole to ensure a more complete installation around the well pipe. Monitoring well bentonite seals will be overlain by a cement/bentonite grout mixture (at a mixture of approximately nine to one) extending from the top of the seal to a depth of three to five feet below ground surface. The grout will be installed via a tremie pipe to ensure an accurate placement of well completion materials. All wells will be completed with a steel protective flush well mount.

Each well will be tagged with its unique well identification number and made visible for ease of identification. Each permanent monitoring well will be completed with a cap and lock. A two-foot square by 4 inch thick concrete pad will be placed around each protective stick-up protective cover cemented in place.

Soil cuttings from the monitoring well installation will be carefully managed and placed in 55-gallon steel drums. Soil cuttings will be collected in Department of Transportation (DOT)-approved containers, marked, labeled and temporarily staged at the Property. Spent personal protective equipment (PPE) and disposable sampling equipment will be disposed as solid waste. All reusable equipment will be decontaminated in accordance with Section 8.5.

A Form DNR 7802.96, Well Log and Drilling Report will be completed for each new monitoring well and will be submitted to ODNR in accordance with the Ohio Revised Code Section 1521.05 - Well Construction Logs.

7.6.2 Monitoring Well Development

Following installation, each of the newly installed monitoring wells will be developed to remove excess fine particulates and stabilize groundwater indicator parameters. Any water introduced during the drilling process will have been documented for removal during this process. A combination of stainless steel pumps and/or air-lifting utilizing an air compressor will be the preferential mode of development in which a well is simultaneously surged and then purged until the development criteria have been achieved. After an equal volume of water introduced during drilling has been removed, a minimum of three well volumes will be removed before a well may be considered developed. If, after the removal of three to five well volumes, the development criteria (turbidity) have not been achieved, the process will continue until either the criteria have been met, or ten well volumes have been removed.

Water generated during development activities will be collected in 55 gallon drums, transported from the well location, and transferred to a temporary staging area. Drums will be properly labeled with the date of generation and applicable source information.

7.6.3 Purging and Sampling

Wells planned to be installed as part of this work plan will be sampled a minimum of four consecutive quarters in order to calculate a representative concentration for COCs.

Prior to purging a well, clean polyethylene sheeting will be placed on the ground to provide a clean working surface. The monitoring well will first be opened and allowed to equilibrate to stabilize to atmospheric conditions. The water level will then be measured from the survey mark at the top of the casing using an electronic water level indicator that is accurate to 0.01 feet, and the water level will be recorded. Total depth and depth to water from the top of the casing will be measured with an electronic water level indicator and recorded in the field log and groundwater sampling logs.

Each monitoring well will be purged using low-flow techniques as described below for collecting valid and representative samples of groundwater from monitoring wells. Monitoring wells will be purged and sampled using a peristaltic pump or bladder pump in combination with polyethylene tubing. The tubing intake will be placed within the screened interval of each monitoring well. Flow rates will not exceed the recharge rate of the groundwater-bearing zone, typically on the order of 0.2 to 0.5 L/min.

An in-line water quality instrument in combination with a flow-through cell will be used to establish stabilization for field parameters. The instrument will be calibrated each day before initiation of field activities. A total of six field parameters will be measured during purging activities; pH, specific conductance, temperature, dissolved oxygen, ORP, and turbidity. Pumping rate, field parameters and drawdown within each monitoring well will be monitored throughout the purging process. Measurements will be collected and recorded every 5 minutes. The pumping rate (typical flow rates are less than 0.5 L/min.) will be adjusted to minimize drawdown within the well. Data on pumping rate, drawdown, and volume required for parameter stabilization will be recorded on a standard field form.

Samples will be collected from each sand unit after stabilization of field parameters has occurred. Stabilization is defined as consecutive readings within ten percent. Field indicator readings have stabilized when measurements are within the following limits:

- Turbidity $\pm 10\%$ or less than 10 NTUs;
- Specific Conductance $\pm 3\%$;
- ORP $\pm 10\text{mV}$;
- Temperature $\pm 0.5^\circ\text{C}$;
- pH ± 0.1 units; and
- DO ± 0.3 mg/L.

In general, the order of parameter stabilization is pH, temperature, and specific conductance, followed by ORP, DO and turbidity. Temperature and pH, while commonly used as purging indicators, are actually quite insensitive in distinguishing between formation water and stagnant casing water. Nevertheless, these are important parameters for data interpretation purposes and will be measured. Performance criteria for determination of stabilization will be based on water-level drawdown, pumping rate and equipment specifications for measuring indicator parameters.

In conjunction with monitoring the parameters necessary to determine stabilization of the groundwater such as part of the low-flow sampling (i.e., temperature, pH, conductivity, etc.), water level measurements will also be taken and recorded. Water level measurements will be taken once every five minutes, and the water levels and sample times will be recorded. The groundwater levels will be assumed to have stabilized when three consecutive consistent (10%) groundwater levels have been measured. The pumping rate will be measured and recorded once every five minutes using a stopwatch and a graduated cylinder or graduated beaker. Groundwater samples will be collected

only after three consecutive readings of both the groundwater field parameters and the water levels have met the stabilization criteria listed above. If the well goes dry as a result of obtaining these water quality measurements, the sampling will be postponed between 6 and 24 hours, during which time the water level will have time to stabilize in the well.

Once purging is completed, the sample will either be collected before the flow-through cell using a by-pass sampling port, if available, or the flow-through cell will be removed from the pumping system and sample collection will commence directly from the pump discharge line.

The laboratory-supplied containers will be filled by allowing the pump discharge to flow gently down the inside of the container with minimal turbulence. Sampling flow rate may remain at the established purge rate or may be adjusted slightly to minimize aeration, bubble formation, turbulent filling of sample bottles or extended residence time. Once the container has been filled to capacity, the sample will be sealed, labeled and placed in a cooler on ice until delivery to the VAP-certified laboratory. Routine chain of custody protocols will be followed and a chain of custody will be prepared for each sample cooler before it is shipped to the laboratory. At a minimum, the chain-of-custody form will identify the sample collector, sample location identifications, sample numbers, date and time of collection, parameters monitored, preservatives and method of transport to the analytical laboratory.

7.7 Test Trenches

Test trenches will be used to identify the type of fill and lateral extent of buried materials on the southeast side of the fill area (IA#3) as shown on Figure 6. Trenches will be advanced using an excavator to determine the location, configuration, and characteristics of potential buried material. The soil cover will be removed first and segregated from the trench material contents. Material such as drums, tanks or soil exhibiting visual or olfactory evidence of impacts will be placed in a roll-off box or other container, while non-suspect material will be returned to the trench. The test trenches will be extended vertically until no further fill is encountered or maximum reach of the equipment (about 12 ft).

To determine lateral extent of fill on the southeast side of the fill area, the test trenches will be initiated in an area of known buried material, excavated vertically until buried material is encountered and then excavated laterally outward until no buried material is encountered. Fill material from each excavation will be returned to the open trench and then covered with the original soil cover material. Visual observation of the buried material limits will be made during test trench excavations with representative material photographed and included on the test trench log. A marker will be left at each trench location where the lateral extent of fill was identified. Each marker will be surveyed during the site topographic survey.

Each test trench will be backfilled the same day that it is excavated following completion of all field observations.

8.0 Sample Handling and Analysis

8.1 Quality Control Samples

QC samples assess the validity of field and analytical results by measuring the accuracy and precision of each method and matrix, serving as a means to detect errors or out-of-control events, and requiring corrective action techniques to prevent or minimize the recurrence of these events. The QC samples associated with field sampling will include trip blanks, field equipment blanks, field duplicates, MS/MSDs. Trip blanks are included in each cooler shipped to the Site from the laboratory. Each QC sample (excluding trip blanks) will be analyzed for the required suite of analyses. Trip blanks will be analyzed for VOCs only in aqueous samples. Trip blanks, field equipment blanks, field duplicates, and MS/MSDs will be prepared or collected according to the protocols and frequencies specified below:

- Equipment rinsate blanks – Equipment rinsate blanks will be prepared by routing deionized water (provided by the laboratory) through non-dedicated sampling equipment after equipment decontamination and before field sample collection. Equipment rinsate blanks will be collected for any aqueous or solid samples collected with non-dedicated equipment (at a frequency of one per 10 samples), and will be analyzed for the same parameters as their associated samples.
- Field blanks – Field blanks will be collected by pouring deionized water (provided by the laboratory) into sample containers at specified groundwater sampling locations (at the time of sample collection). Field blanks will be collected at a frequency of one per 10 samples and will be analyzed for the same parameters as their associated samples.
- Trip blanks – Trip blanks will be included in each shipment of VOC samples. Trip blanks will originate in the laboratory and will be prepared by filling two 40-mL VOA vials with laboratory deionized water and sealing the vials with septum-lined caps (allowing no headspace). Trip blanks will accompany the sample bottles to the site and will remain (unopened) in the shipping container until the sample bottles are received back at the laboratory. Trip blanks will be analyzed for VOCs only.
- Field duplicates – Field duplicates will be collected at a frequency of one field duplicate for every 10 or less investigative samples. Sample containers for VOC field duplicates will be filled consecutively. All field duplicates will be analyzed for the same parameters as their associated samples.
- MS/MSDs – MS/MSD samples will be collected at a frequency of one for every 20 or less investigative samples. For those samples designated as MS/MSDs, triple volume will be collected.

Laboratory generated QC samples will include method blanks, calibration standards, MS, laboratory replicates, and laboratory check samples.

8.2 Analytical Methods

Each sample will be submitted to a VAP-Certified Laboratory for analysis using the following Ohio VAP methods:

- VOCs: USEPA SW-846 Method 8260B;
- SVOCs: USEPA SW-846 Method 8270C;
- TAL Metals (except mercury) (aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, total chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, silver, selenium, sodium, thallium, vanadium and zinc): USEPA SW-846 Method 6020A;
- Mercury: USEPA SW-846 Method 7471B;
- Pesticides and herbicides (USEPA SW-846 Method 8081);
- PCBs: USEPA SW-846 Method 8082A; and
- Asbestos: Soil: Polarized Light Microscopy (PLM) by ENV.004 (VAP);and
Transmission Electron Microscopy (TEM) Method CARB; and
Water: USEPA Method 100.1 (drinking water).

It should be noted that field-filtering of groundwater samples to be tested for metals will be conducted using a 0.45 micron filter if turbidity at the monitoring well is shown to be generally above 5 NTUs.

8.3 Sample Designations

Each field sample will be assigned a unique sample identifier. This identifier will be used throughout the sample collection, analysis, and reporting activities, and will be clearly linked to identified area, sample media, depth indication, date (if applicable) and Quality Assurance/Quality Control (QA/QC) identifier (if applicable). The identifier will contain a sufficient number of characters to include the information as described below. This information will be recorded in both field log books and the project database management system. Prefixes used to identify matrix spike (MS) sample, matrix spike duplicates (MSD), re-analyzed samples, and samples re-analyzed at a secondary dilution will be appended by the laboratory and included in laboratory deliverables. The sample identifier will be clearly shown on the chain-of-custody form and sample container labels.

The field identifier code will include:

- Location Identification – identified area or monitoring well number;
- Media type;
- Depth at which the sample was taken (for soil and sediment samples);
- One-letter code to indicate field QA samples:
 - B – Field sample duplicate;
 - C – Equipment blank sample;
 - FB – Field blank sample; and
 - TB – Trip blank sample, and
- For those locations which may be sampled multiple times (e.g. monitoring wells, surface water samples), the sample ID will also include a date code to distinguish between sampling events. This code will be six digits, representing the month-day-year, e.g. 072613.

Media type will consist of groundwater, surface water, soil and sediment. Groundwater monitoring wells will start with MW.

Soil samples will be designated by identified area such as IA#1S1 (depth) (QA qualifier).

Examples of the sample labeling nomenclature are as follows:

- IA#1S1-0608 - analytical soil sample taken at IA#1 at a depth of 6-8 feet;
- MW-3A-070912 - groundwater sample taken from an on-Property monitoring well screened in upper saturated zone on July 9, 2012;
- MW-2B-070910-B - duplicate groundwater sample taken from an on-Property monitoring well screened in lower saturated zone on July 9, 2010;
- IA#2-Sed2-0102 – The second sediment sample obtained from IA#2 at a depth of 1 to 2 ft.; and
- IA#3-SW1-070912 – The first surface water sample obtained from IA#3 on July 9, 2012.

The trip blanks will be linked to a specified cooler and will use the date of shipment as the sample identification number. Samples being designated for MS/MSD analysis will not include an identifier as part of the sample code, but will be identified in the comments section of the chain-of-custody form.

8.4 Sample Containment, Handling, and Shipping

Standard Chain-Of-Custody (COC) procedures will be followed. The samples will be placed in laboratory-supplied sample bottles, labeled accurately and completely to match all information on the completed COC, including sample ID, sample time, date, type of analysis, project and samplers' name, and location. The following procedures will be used for sample shipment:

- Hand tighten each sample bottle lid and wrap sample bottles in laboratory supplied bubble-wrap or foam padding;
- Place packing material (approx. 3-inches) in the bottom of a the sample cooler followed by and appropriately sized polyethylene trash bag;
- Seal bottles or bottle sets in clear plastic sealable bags and place them vertically in the trash bag/cooler;
- Fill the trash bag/cooler with ice and seal the trash bag with packing or strapping tape;
- Place the completed paperwork (i.e., chain-of-custody forms) in a sealable plastic bag and tape to the inside of the cooler;
- Close the cooler and secure the lid by taping the cooler completely around the outside with strapping tape at two locations and apply custody seals;
- Place the laboratory address on top of the container;
- Place "THIS SIDE UP" labels on all four sides and "FRAGILE" labels on at least two sides of the container; and
- Ship each sample container to the laboratory by Federal Express using "PRIORITY OVER-NIGHT DELIVERY".

Any deviation of this procedure will be noted in the report. Samples will be shipped daily or as required from the field to the laboratory using an overnight service or reputable courier. Samples will

be handled and shipped in accordance with current DOT and International Air Transport Authority (IATA).

8.5 Field Equipment Decontamination

Equipment used in the field investigations at the Site will be cleaned between sample collection points. Cleaning of equipment is performed to prevent cross-contamination between samples and to maintain a clean working environment for field personnel.

A summary of the decontamination method for the sampling equipment used for the collection of samples for trace organic compounds and/or metals analyses is presented below:

1. Wipe excess residue or soil from sampling equipment as necessary.
2. Rinse equipment in potable or distilled water.
3. Scrub with solution of distilled water and non-phosphate detergent.
4. If analyzing for organic compounds, rinse with isopropyl alcohol. Omit this step if not and proceed to Step 7.
5. Rinse with potable or distilled water
6. Rinse with de-ionized water;
7. Wipe dry followed by an aluminum foil wrap.

Steps 1 and 2 were repeated, if necessary.

For decontamination of drilling equipment (casing, rods, etc.), a decontamination pad will be constructed by the subcontractor to contain solids and rinse water. All drilling equipment that has come into contact with Site soil and/or groundwater will be pressure washed with potable water prior to reuse. Rinse water will be properly containerized as necessary.

Detergents and rinse waters used to clean field equipment will be replaced as necessary as well as any remaining solids and rinse water within the decontamination pad. Solids and liquids will be containerized and temporarily staged on Site in conjunction with other investigative derived materials.

8.6 Investigative Derived Materials (IDM) Management

IDM generated during field activities will be managed to ensure proper storage, handling and disposal. Materials which may become IDM include personal protective equipment (PPE), disposable equipment, groundwater obtained through well development and purging, soil cuttings and cleaning fluids. Groundwater equipment decontamination fluids will be containerized in approved 55-gallon drums and staged at a central location designated by the property owner pending results of laboratory analyses and selection of final disposal method(s).

IDM generated in areas with obvious (visual or olfactory) impacts will be segregated and containerized separately from other IDM to the extent practical and appropriate. Analytical results for

groundwater samples will be utilized to determine an appropriate aqueous IDM disposal method. Analytical results from soils samples will be used to profile soils generated during implementation of the work plan.

All IDM will be properly managed, marked, labeled, stored, profiled and manifested for off-Site disposal in accordance with all applicable local, state and federal regulations.

9.0 Reporting

9.1 Mapping

A topographic survey using a minimum 2-ft contour interval will also be completed and a Property topography map will be included in the Phase II Report in accordance with 3745-300-07(E)(2)(j) and 3745-300-07(J)(13) and (14). The map will include locations of buried pipes/infrastructure which will be developed from known surface features, existing maps and the underground utility survey conducted prior to sampling.

9.2 Reporting

After collection of all appropriate information, the data will be used to develop a draft VAP Phase II Property Assessment Report documenting the results of the analytical testing and all other information required by the Phase II Property Assessment rule, OAC 3745-300-07(J). The draft VAP Phase II Property Assessment Report will include, but not be limited to full regional and Property-specific geologic and hydro-geologic conditions, geologic cross section, groundwater classification, POGWMUPUS determination, receptor populations review, exposure pathway analysis, applicable standards comparison and required maps.

10.0 References

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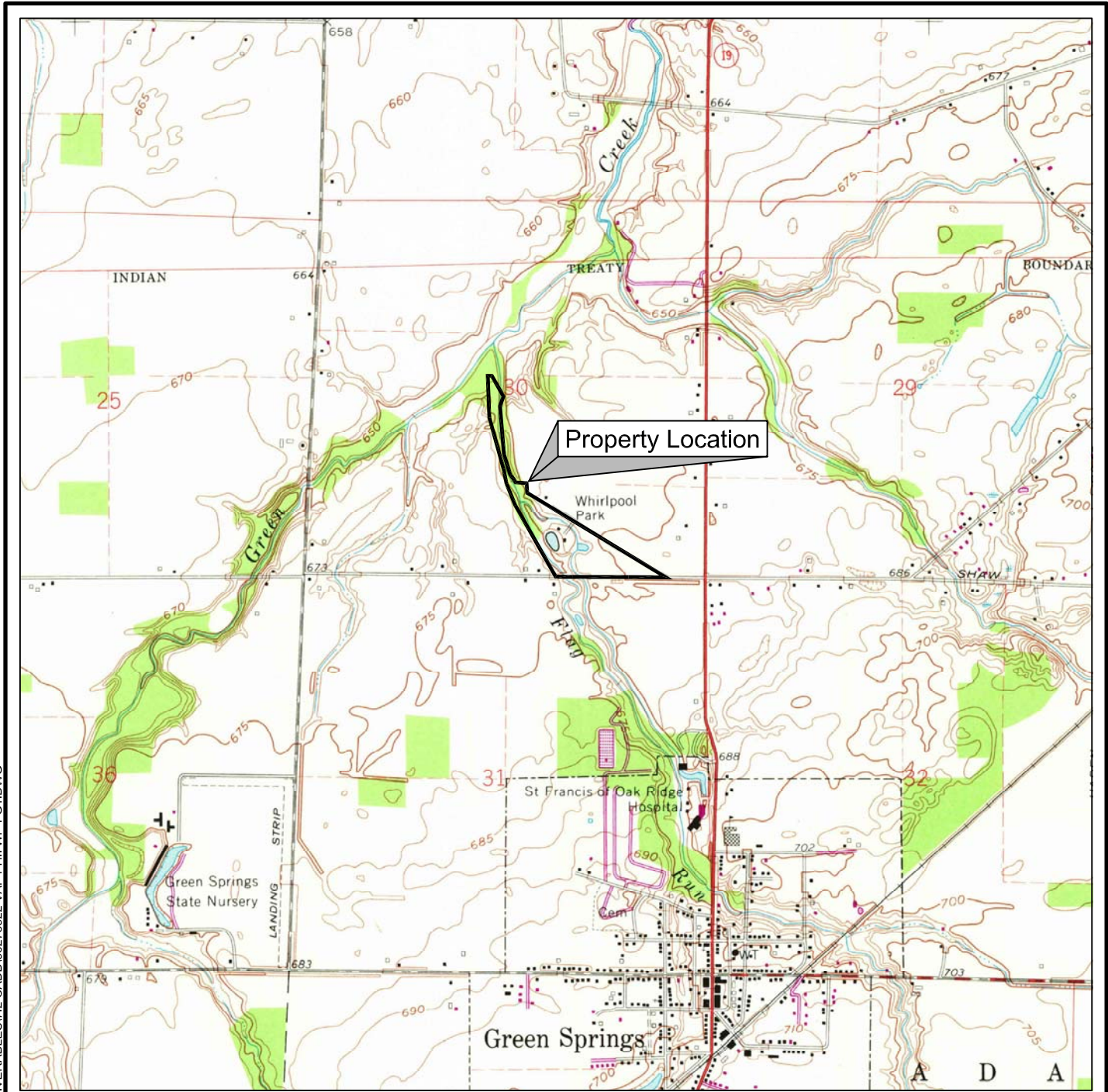
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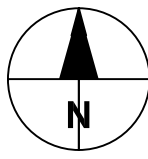
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Figures



Base Taken From USGS Fremont East, Ohio
 7.5'-Series Topographic Quadrangle.
 Date: 1969. Photorevised: 1980. Scale: 1"=2000'.

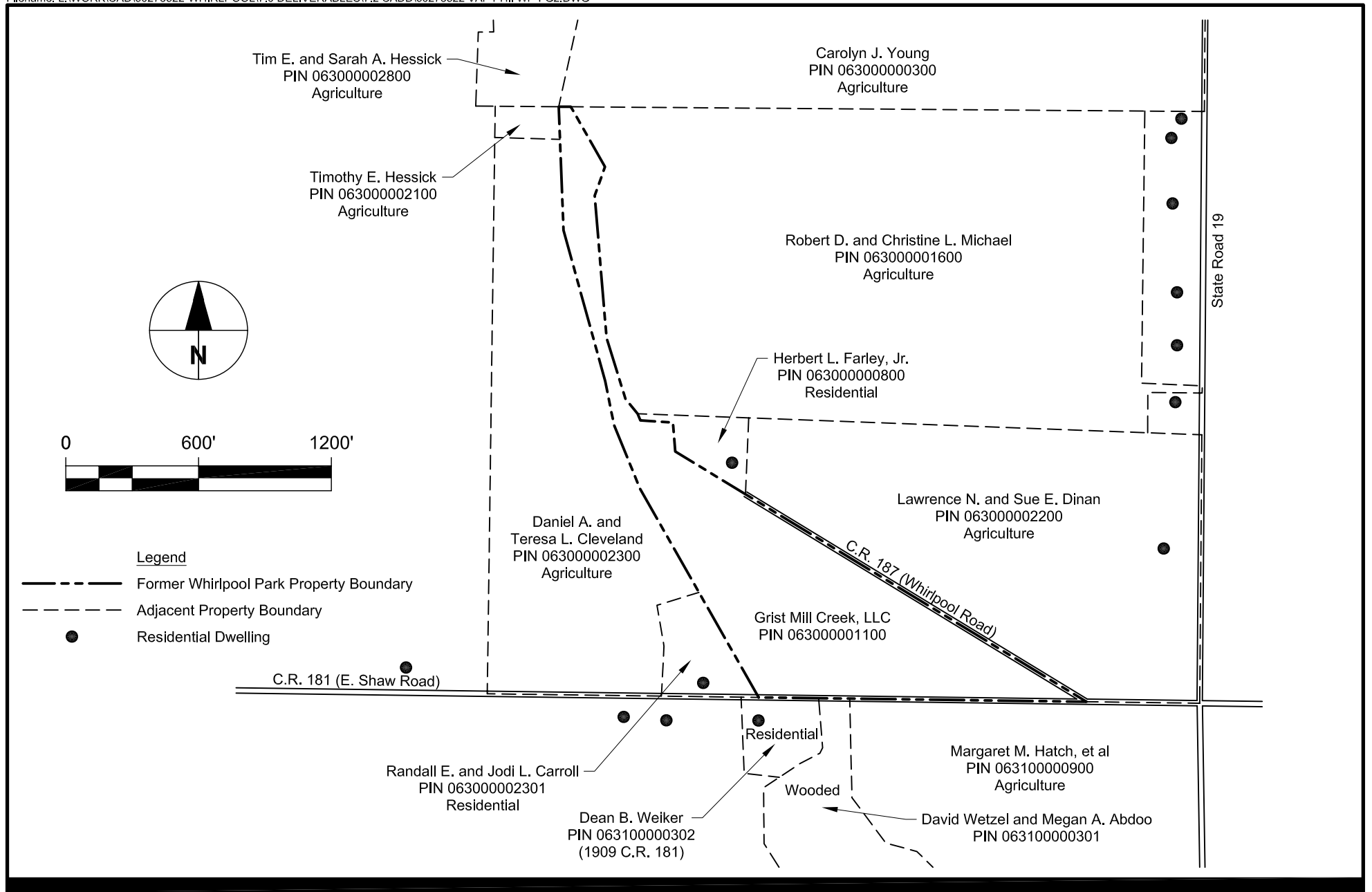


Quadrangle Location

**VAP PHASE II WORK PLAN
 FORMER WHIRLPOOL PARK**

PROPERTY LOCATION MAP

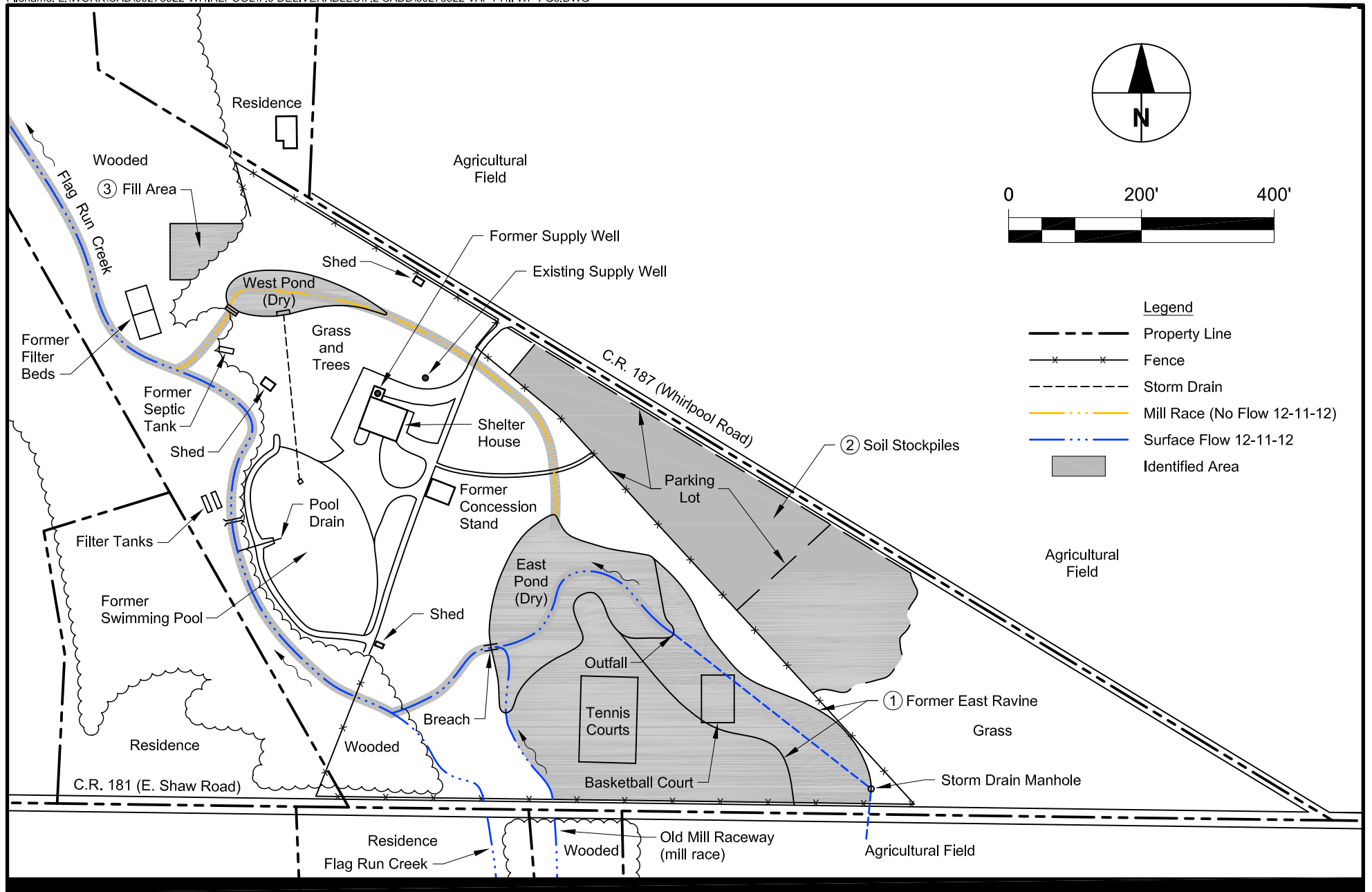




VAP PHASE II WORK PLAN
 FORMER WHIRLPOOL PARK

PROPERTY MAP

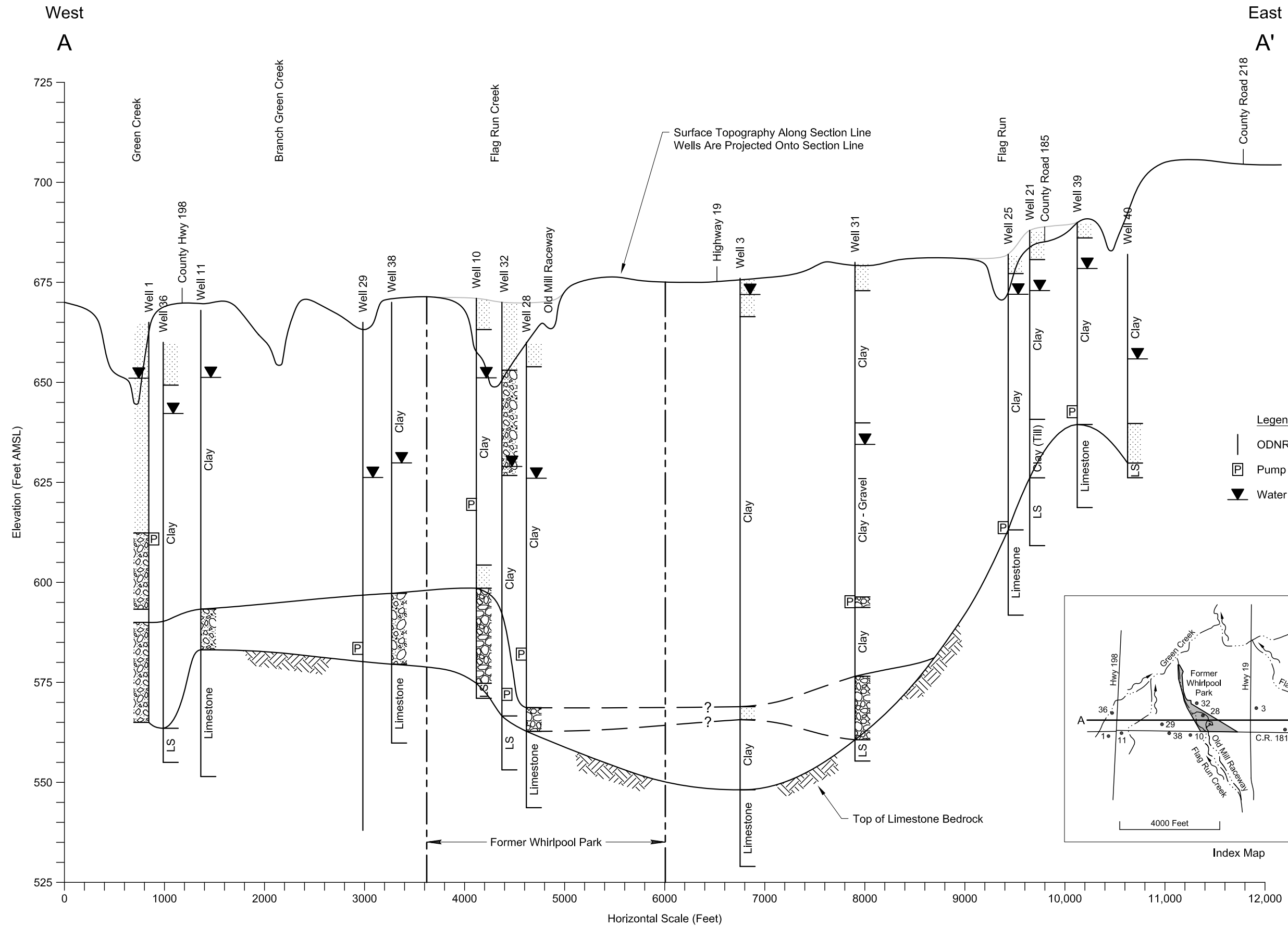




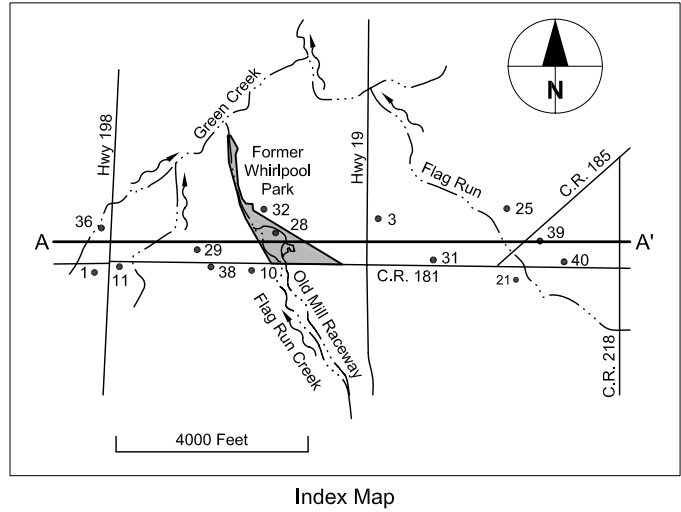
VAP PHASE II WORK PLAN
 FORMER WHIRLPOOL PARK

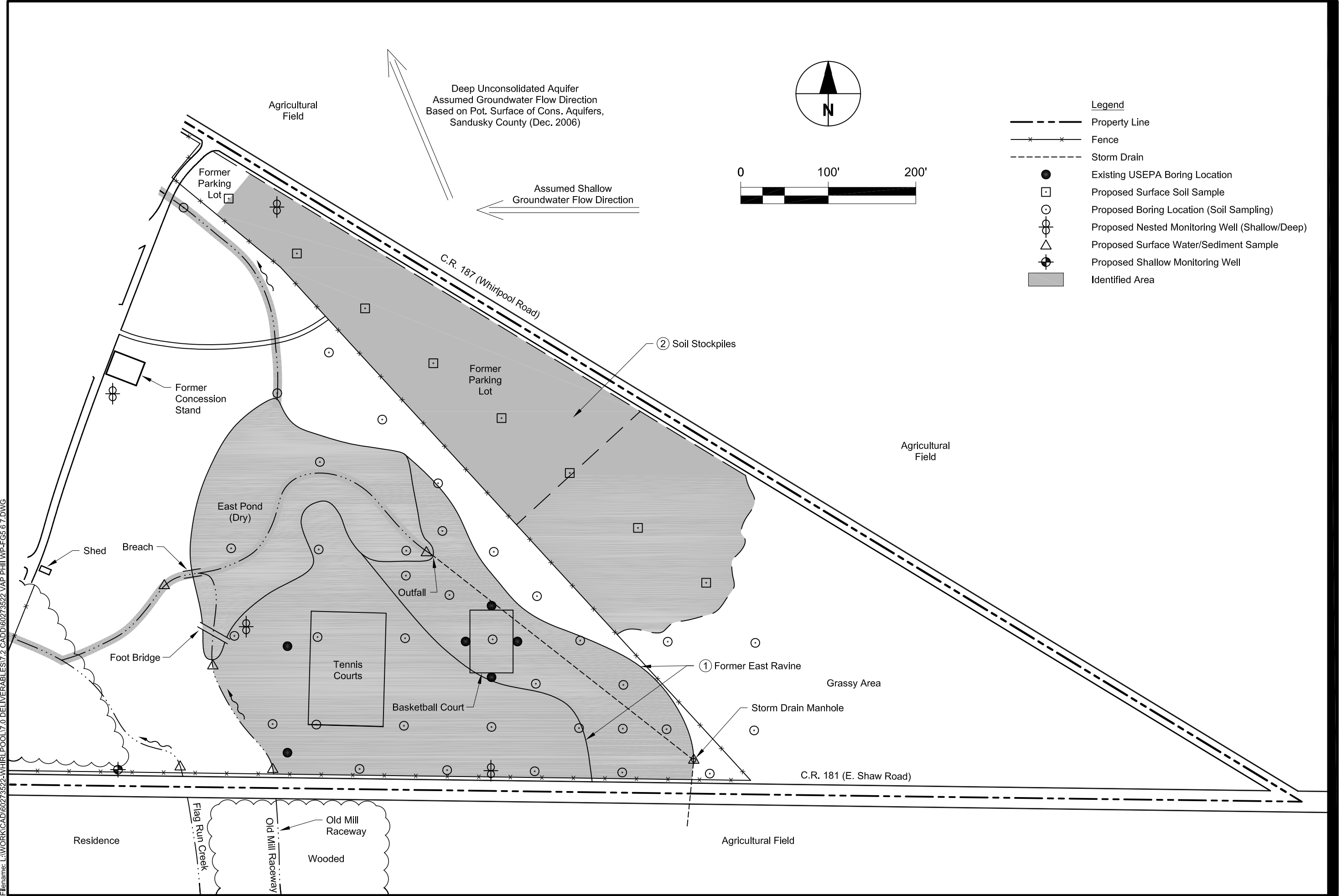
IDENTIFIED AREA MAP

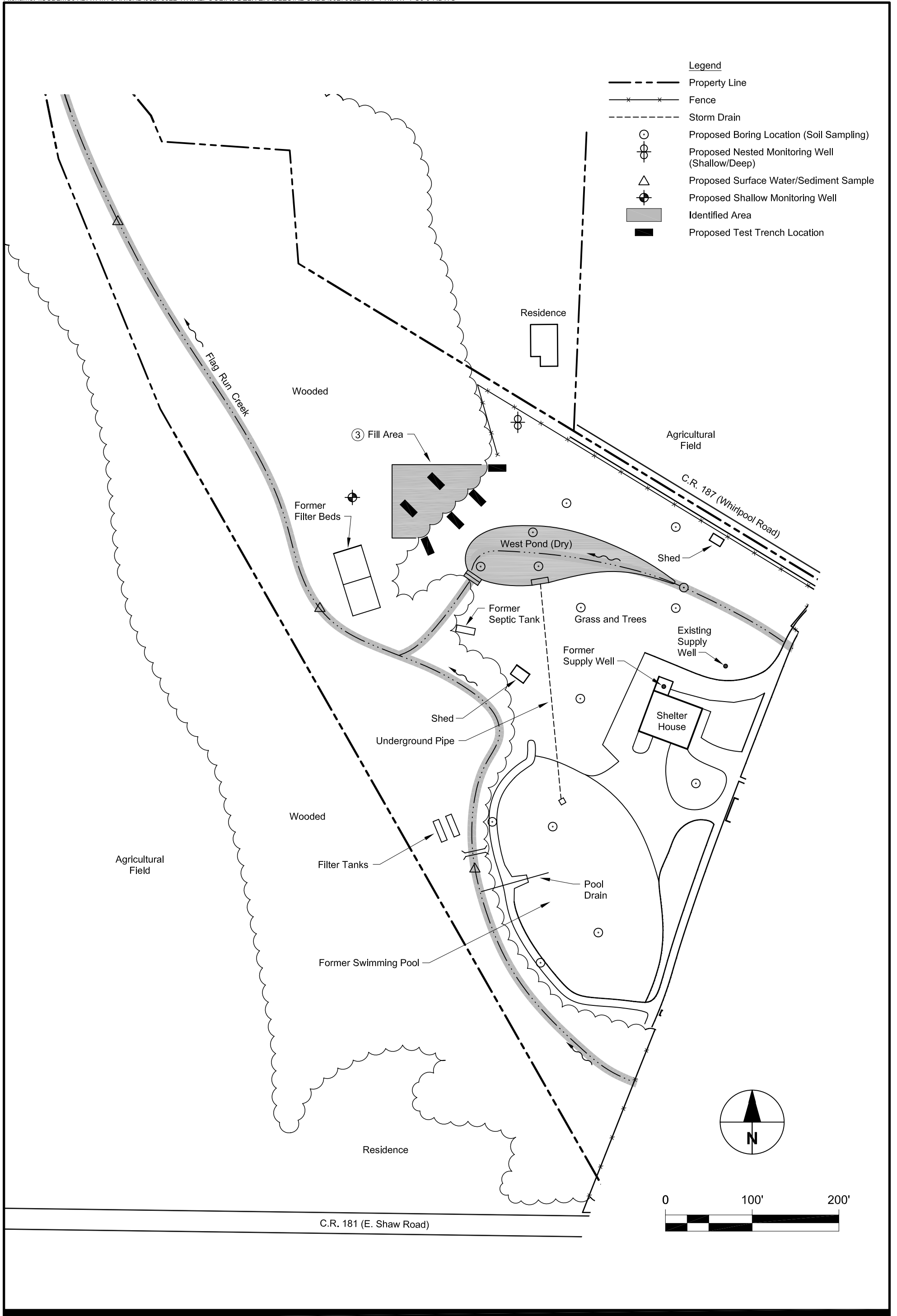




Horizontal Scale: 1"=1000'
 Vertical Scale: 1"= 25'







VAP PHASE II WORK PLAN
 FORMER WHIRLPOOL PARK

PROPOSED SAMPLE LOCATION MAP
 WEST HALF SOUTH TRIANGLE



Tables

TABLE 1 APPLICABLE STANDARDS SUMMARY

Former Whirlpool Park
County Road 187, Green Springs, Ohio 43410

Identified Area Number	Descriptive Name	Potential COC	Media	Completed Pathways	On/Off Property?	Point of Compliance	Applicable Standard
1	Former East Ravine	VOCs, SVOCs, TAL Metals, pesticides and herbicides, PCBs	Soil	Direct Contact	On	Upper 10 ft	Residential Direct Contact
			Soil	Direct Contact	On	Unsaturated Zone	Construction worker direct contact
			Soil	Vapor Intrusion	On	Unsaturated Zone	Site-specific risk -based
			Soil	Leaching to Groundwater	On	Unsaturated Zone	LBSVs
			Soil	Ecological	On	Upper 4 ft	OEPA Eco RA Guidance - April 2008
			GW	Potable	On	To Be Determined	To Be Determined
			GW	Potable	Off	To Be Determined	To Be Determined
			GW	Non-Potable	On	To Be Determined	To Be Determined
			GW	Non-Potable	Off	To Be Determined	To Be Determined
			GW	GW to Surface Water	On	To Be Determined	To Be Determined
			GW	GW to Surface Water	Off	To Be Determined	To Be Determined
			GW	Vapor Intrusion	On	To Be Determined	Site-specific risk -based
			GW	Vapor Intrusion	Off	To Be Determined	Site-specific risk -based
			Surface Water	Non-Potable Use	On	Outside Mixing Zone Criteria	WQS per 3745-1-12
			Surface Water	Non-Potable Use	Off	Outside Mixing Zone Criteria	WQS per 3745-1-12
			Surface Water	Ecological	On	Outside Mixing Zone Criteria	WQS per 3745-1-12
			Surface Water	Ecological	Off	Outside Mixing Zone Criteria	WQS per 3745-1-12
			Sediment	Direct Contact	On	Sediment Depth	Residential Direct Contact
			Sediment	Direct Contact	Off	Sediment Depth	Residential Direct Contact
			Sediment	Ecological	On	Upper 6 inches	OEPA Eco RA Guidance - April 2008
Sediment	Ecological	Off	Upper 6 inches	OEPA Eco RA Guidance - April 2008			

TABLE 1 APPLICABLE STANDARDS SUMMARY

Former Whirlpool Park
County Road 187, Green Springs, Ohio 43410

Identified Area Number	Descriptive Name	Potential COC	Media	Completed Pathways	On/Off Property?	Point of Compliance	Applicable Standard
2	Soil Stockpiles	Asbestos, lead, mercury	Soil	Direct Contact	On	Upper 10 ft	Residential Direct Contact
			Soil	Direct Contact	On	Unsaturated Zone	Construction worker direct contact
			Soil	Leaching to Groundwater	On	Unsaturated Zone	LBSVs
			Soil	Ecological	On	Upper 4 ft	OEPA Eco RA Guidance - April 2008
			GW	Potable	On	To Be Determined	To Be Determined
			GW	Potable	Off	To Be Determined	To Be Determined
			GW	Non-Potable	On	To Be Determined	To Be Determined
			GW	Non-Potable	Off	To Be Determined	To Be Determined
			GW	GW to Surface Water	On	To Be Determined	To Be Determined
			GW	GW to Surface Water	Off	To Be Determined	To Be Determined
			Surface Water	Non-Potable Use	On	Outside Mixing Zone Criteria	WQS per 3745-1-12
			Surface Water	Non-Potable Use	Off	Outside Mixing Zone Criteria	WQS per 3745-1-12
			Surface Water	Ecological	On	Outside Mixing Zone Criteria	WQS per 3745-1-12
			Surface Water	Ecological	Off	Outside Mixing Zone Criteria	WQS per 3745-1-12
			Sediment	Direct Contact	On	Sediment Depth	Residential Direct Contact
			Sediment	Direct Contact	Off	Sediment Depth	Residential Direct Contact
			Sediment	Ecological	On	Upper 6 inches	OEPA Eco RA Guidance - April 2008
Sediment	Ecological	Off	Upper 6 inches	OEPA Eco RA Guidance - April 2008			

TABLE 1 APPLICABLE STANDARDS SUMMARY

Former Whirlpool Park
County Road 187, Green Springs, Ohio 43410

Identified Area Number	Descriptive Name	Potential COC	Media	Completed Pathways	On/Off Property?	Point of Compliance	Applicable Standard
3	Fill Area	VOCs, SVOCs, TAL Metals, pesticides and herbicides, PCBs	Soil	Direct Contact	On	Upper 10 ft below fill depth	Residential Direct Contact
			Soil	Direct Contact	On	Unsaturated Zone	Construction worker direct contact
			Soil	Vapor Intrusion	On	Unsaturated Zone	Site-specific risk -based
			Soil	Leaching to Groundwater	On	Unsaturated Zone below fill depth	LBSVs
			Soil	Ecological	On	Upper 4 ft below fill depth	OEPA Eco RA Guidance - April 2008
			GW	Potable	On	To Be Determined	To Be Determined
			GW	Potable	Off	To Be Determined	To Be Determined
			GW	Non-Potable	On	To Be Determined	To Be Determined
			GW	Non-Potable	Off	To Be Determined	To Be Determined
			GW	GW to Surface Water	On	To Be Determined	To Be Determined
			GW	GW to Surface Water	Off	To Be Determined	To Be Determined
			GW	Vapor Intrusion	On	To Be Determined	Site-specific risk -based
			GW	Vapor Intrusion	Off	To Be Determined	Site-specific risk -based
			Surface Water	Non-Potable Use	On	Outside Mixing Zone Criteria	WQS per 3745-1-12
			Surface Water	Non-Potable Use	Off	Outside Mixing Zone Criteria	WQS per 3745-1-12
			Surface Water	Ecological	On	Outside Mixing Zone Criteria	WQS per 3745-1-12
			Surface Water	Ecological	Off	Outside Mixing Zone Criteria	WQS per 3745-1-12
			Sediment	Direct Contact	On	Sediment Depth	Residential Direct Contact
			Sediment	Direct Contact	Off	Sediment Depth	Residential Direct Contact
			Sediment	Ecological	On	Upper 6 inches	OEPA Eco RA Guidance - April 2008
Sediment	Ecological	Off	Upper 6 inches	OEPA Eco RA Guidance - April 2008			

GDC - Generic direct contact
SSG - Subslab gas
WOE - Weight of evidence
SSRB - Site-specific risk-based
LBSVs - Leach-based soil values
GLB - Generic leach-based standard
VIGS - Vapor intrusion generic screening level
GUPUS - Generic unrestricted potable use standard

TABLE 2 SAMPLING PLAN SUMMARY

Former Whirlpool Park
County Road 187, Green Springs, Ohio 43410

Media		IA #1		IA #2		IA #3		Potential Off-Site Source
		EU #1	EU #2	EU #1	EU #2	EU #1	EU #2	
Soil	Borings*	41	9	---	---	---	---	---
	PCBs	246	54	---	---	---	---	---
	Full Scan**	20	4	---	---	6	---	---
	Surface Sample - Asbestos, lead, mercury	---	---	8	3	---	---	---
Groundwater***	Shallow MW	4	---	1	---	1		1
	Deep MW	4	---	1	---	---		---
	Full Scan	8	---	1	---	1		1
Surface Water	Full Scan	---	9	---	---	---	Same as IA #1, EU #2	---
Sediment	Full Scan	---	18	---	---	---	Same as IA #1, EU #2	---

* Assume average depth = 12 ft below ground surface

**Full scan = VOCs, SVOCs, TAL Metals, pesticides and herbicides and PCBs

*** Minimum number of groundwater samples.

Appendix A

IA Preliminary Exposure Pathway Summaries

Appendix A Preliminary Exposure Pathway Summary

Former Whirlpool Park
County Road 187, Green Springs, Ohio 43410

Identified Area: #1 - Former East Ravine – VOCs, SVOCs, TAL Metals, pesticides and herbicides, PCBs				
Potentially Affected Medium: Transport Mechanism	Location of COCs	Requires Further Evaluation?	Receptors for Pathways or Explanation for Eliminating Pathway From Further Evaluation	Completed Pathway
Soils: Direct Contact	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Resident and construction worker	
	Off Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No migration off-site via unsaturated soil.	
Soils: Vapor Intrusion to Indoor Air	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Potential future dwelling	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Potential future dwelling	
Soils: Leaching to Ground Water	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Potable-Use Groundwater	
	Off Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No migration off-site via unsaturated soil.	
Soils: Ecological	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Significant ecological resources may exist on the property.	
	Off Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No migration off-site via unsaturated soil.	
Ground Water: Potable	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	On-site potable use	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Off-site potable use	
Ground Water: Vapor Intrusion Indoor Air	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	To be determined by groundwater sampling results.	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	To be determined by groundwater sampling results.	
Ground Water: Non-potable	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Potential non-potable use and construction worker	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Potential non-potable use	
Ground Water: to Surface Water	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek	
Surface Water: Potable	On Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Flag Run Creek not a PWS per OAC 3745-1-12	
	Off Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Flag Run Creek not a PWS per OAC 3745-1-12	
Surface Water: Non-Potable Use	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a AWS/IWS per OAC 3745-1-12	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a AWS/IWS per OAC 3745-1-12	
Surface Water: Ecological	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a WWH per OAC 3745-1-12	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a WWH per OAC 3745-1-12	
Sediments: Direct Contact	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a Primary Contact Recreation per OAC 3745-1-12	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a Primary Contact Recreation per OAC 3745-1-12	
Sediments: Ecological	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a WWH per OAC 3745-1-12	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a WWH per OAC 3745-1-12	
Other Pathway	On Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No other pathways have been identified.	
	Off Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No other pathways have been identified.	

Appendix A Preliminary Exposure Pathway Summary

Former Whirlpool Park
County Road 187, Green Springs, Ohio 43410

Identified Area: #2 - Soil Stockpiles – Asbestos, lead, mercury				
Potentially Affected Medium: Transport Mechanism	Location of COCs	Requires Further Evaluation?	Receptors for Pathways or Explanation for Eliminating Pathway From Further Evaluation	Completed Pathway
Soils: Direct Contact	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Resident and construction worker	
	Off Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No migration off-site via unsaturated soil.	
Soils: Vapor Intrusion to Indoor Air	On Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No dwelling within 100 ft of IA	
	Off Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No dwelling within 100 ft of IA	
Soils: Leaching to Ground Water	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Potable-Use Groundwater	
	Off Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No migration off-site via unsaturated soil.	
Soils: Ecological	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Significant ecological resources may exist on the property.	
	Off Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No migration off-site via unsaturated soil.	
Ground Water: Potable	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	On-site potable use	
	Off Property	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Off-site potable use	
Ground Water: Vapor Intrusion Indoor Air	On Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No dwelling within 100 ft of IA	
	Off Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No dwelling within 100 ft of IA	
Ground Water: Non-potable	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Potential non-potable use and construction worker	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Potential non-potable use	
Ground Water: to Surface Water	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek	
Surface Water: Potable	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek not a PWS per OAC 3745-1-12	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek not a PWS per OAC 3745-1-12	
Surface Water: Non-Potable Use	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a AWS/IWS per OAC 3745-1-12	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a AWS/IWS per OAC 3745-1-12	
Surface Water: Ecological	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a WWH per OAC 3745-1-12	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a WWH per OAC 3745-1-12	
Sediments: Direct Contact	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a Primary Contact Recreation per OAC 3745-1-12	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a Primary Contact Recreation per OAC 3745-1-12	
Sediments: Ecological	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a WWH per OAC 3745-1-12	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a WWH per OAC 3745-1-12	
Other Pathway	On Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No other pathways have been identified.	
	Off Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No other pathways have been identified.	

Appendix A Preliminary Exposure Pathway Summary

Former Whirlpool Park
County Road 187, Green Springs, Ohio 43410

Identified Area: #3 - Fill Area – VOCs, SVOCs, TAL Metals, pesticides and herbicides, PCBs				
Potentially Affected Medium: Transport Mechanism	Location of COCs	Requires Further Evaluation?	Receptors for Pathways or Explanation for Eliminating Pathway From Further Evaluation	Completed Pathway
Soils: Direct Contact	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Resident and construction worker	
	Off Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No migration off-site via unsaturated soil.	
Soils: Vapor Intrusion to Indoor Air	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Potential future dwellings	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Potential future dwellings	
Soils: Leaching to Ground Water	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Potable-Use Groundwater	
	Off Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No migration off-site via unsaturated soil.	
Soils: Ecological	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Significant ecological resources may exist on the property.	
	Off Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No migration off-site via unsaturated soil.	
Ground Water: Potable	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	On-site potable use	
	Off Property	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Off-site potable use	
Ground Water: Vapor Intrusion Indoor Air	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	To be determined by groundwater sampling results.	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	To be determined by groundwater sampling results.	
Ground Water: Non-potable	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Potential non-potable use and construction worker	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Potential non-potable use	
Ground Water: to Surface Water	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek	
Surface Water: Potable	On Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Flag Run Creek not a PWS per OAC 3745-1-12	
	Off Property	<input type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek not a PWS per OAC 3745-1-12	
Surface Water: Non-Potable Use	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a AWS/IWS per OAC 3745-1-12	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a AWS/IWS per OAC 3745-1-12	
Surface Water: Ecological	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a WWH per OAC 3745-1-12	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a WWH per OAC 3745-1-12	
Sediments: Direct Contact	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a Primary Contact Recreation per OAC 3745-1-12	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a Primary Contact Recreation per OAC 3745-1-12	
Sediments: Ecological	On Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a WWH per OAC 3745-1-12	
	Off Property	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flag Run Creek a WWH per OAC 3745-1-12	
Other Pathway	On Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No other pathways have been identified.	
	Off Property	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No other pathways have been identified.	

Appendix B

Supplemental Work Plan #1



AECOM
4219 Malsbary Road
Cincinnati, OH 45246

(513) 878-6880 tel
(513) 878-6848 fax

April 17, 2013

Steven Wolfe
On-Scene Coordinator
U.S. EPA Region 5
25089 Center Ridge Road
Westlake, Ohio 44145

**Subject: Supplemental Work Plan #1
Former Whirlpool Park (FWP)
Green Springs, Sandusky County, Ohio
Ohio EPA VAP TA – 372-003031-001**

Dear Mr. Wolfe:

The following describes sampling and testing to be conducted at the referenced site to supplement the scope of work described in the Final Draft VAP Phase II Property Assessment Work Plan (P2WP) dated April 17, 2013. Detailed procedures to be used for this additional sampling are provided in the P2WP. Sampling will be conducted at the following three locations:

1. David Abdo Property: This property is located at 1937 County Road (CR) 181. A haul road was constructed on this property using fill material of an unknown source to assist with maintenance of the mill race. It has been reported by the current property owner that the fill material extends about 600 ft south from County Route 181 (CR 181). At least four boring locations will be advanced at the center of the road located at 100 ft intervals beginning 100 ft from CR 181. Additional borings may be added depending on how much of the haul road appears to be constructed using fill material. Soil borings that encounter fill material will be extended at least 5 ft into native material. Soil borings that do not encounter fill material will be extended to a maximum depth of 10 ft. A composite soil sample of each 2-ft interval will be obtained from each boring location and submitted to the laboratory for analysis of PCBs with at least one sample tested for VOCs, SVOCs, TAL Metals, pesticides and herbicides. Samples will be obtained and tested in accordance with Sections 7.5 and 8.0 of the P2WP.
2. FWP – AST Filters: Two above ground storage tanks (ASTs) are present on the property and contain filter media used to clarify the pool water. One sample of the filter media will be obtained and tested for PCBs, cobalt and nickel from each AST. In addition, two soil samples will be obtained, one from the upper foot and one from the 1 to 2 ft interval beneath each AST using hand sampling equipment and tested for the same constituents.

3. FWP – Shed Filters: Three canisters located in a shed south of the west pond are present on the property and contain filter media used to clarify the pool water. One sample of the filter media will be obtained from each canister and tested for PCBs, cobalt and nickel. In addition, two soil samples will be obtained, one from the upper foot and one from the 1 to 2 ft interval at the location of the backwash area using hand sampling equipment and tested for the same constituents.

Results will be provided in a report separate from the VAP Phase II report. Please contact me with any questions at 513-878-6844.

Sincerely yours,



Ron Roelker, PE
Project Manager

cc: Mr. J. Wray Blattner, Thompson Hine LLP

Appendix C





Soil Boring Logs

Appendix C

Soil Boring Logs



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 668.79 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/20/2013 12:39:00 PM/ 5/20/2013 1:20:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585943.38 EASTING 1814604.09
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0								
2		4.3-ppm	3.5	IA#1S1-0002		2.0	Dry, dark brown, SANDY SILT (Topsoil, roots throughout)	666.8
	80	1.2-ppm	2.4	IA#1S1-0204		2.5	Dry, dark brown, FAT SANDY CLAY	666.3
			2.5			4.0	Moist, brown, FAT CLAY (Few coarse angular sand)	664.8
4		3.7-ppm	1	IA#1S1-0406		5.0	Wet, brown, FAT CLAY (Few coarse angular sand)	663.8
			1.2			6.0	Moist, brown, FAT CLAY (Trace coarse sand)	662.8
6		1.4-ppm	4.5+	IA#1S1-067.8		7.8	Damp, brown, FAT CLAY (Trace coarse sand and sub-angular gravel)	661.0

Refusal at 7.8 feet.
Termination of borehole at 7.8 feet.

FWP - GINT STD US.GDT - 7/8/13 12:24 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\FWP.GPJ


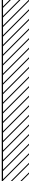
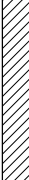

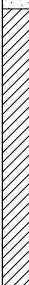
*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.
PROJECT NUMBER 60273522
DRILLING CONTRACTOR Boart Longyear
DRILLING METHOD Direct Push/Dual Core Drilling
LOGGED BY M. Papp **CHECKED BY** B.M. Bagley
NOTES Phase II ESA, additional boring, no samples

PROJECT NAME Former Whirlpool Park
PROJECT LOCATION CR 187, Green Springs Ohio, 43410
GROUND ELEVATION 668.88 ft **HOLE SIZE** 3.25 in.
DATE STARTED / COMPLETED 5/21/2013 1:20:00 PM/ 5/21/2013 1:41:00 PM
NORTHING 585989.27 **EASTING** 1814517.85
GROUND WATER LEVEL: **TIME OF DRILLING** Dry

FWP - GINT STD US.GDT - 7/8/13 12:24 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\FWP.GPJ

DEPTH (ft)	RECOVERY %	PID, Headspace Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0							
		0			0.5	Dry, dark brown, SANDY SILT (Trace red brick, FILL)	668.4
		0				Moist, light brown, SANDY LEAN CLAY	
2		0					
	56						
		0			3.5	Very Moist, dark brown, POORLY GRADED SAND	665.4
4							
					5.0	Damp, brown, LEAN CLAY (Trace coarse sand)	663.9
6							
		4.5+					
8	100						
10					10.0	Termination of borehole at 10.0 feet.	658.9

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 669.54 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/20/2013 11:31:00 AM/ 5/20/2013 12:18:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585952.63 EASTING 1814690.56
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
		3-ppm	4	IA#1S2-0002		1.5	Dry, dark brown, SANDY SILT (Topsoil, roots at top) 668.0
2	72	4.1-ppm	0	IA#1S2-0204		3.0	Wet, brown, POORLY GRADED SAND 666.5
4		3.3-ppm	1.75	IA#1S2-0406		5.0	Moist, brown, FAT CLAY (Trace coarse angular sand) 664.5
6		4.3-ppm	3.75	IA#1S2-0608		7.0	Dry, gray-brown, FAT CLAY (Trace coarse angular sand) 662.5
8	100	4.5+	4.5+			8.0	Same As Above (Few angular gravel) 661.5



Refusal at 8.0 feet.
Termination of borehole at 8.0 feet.

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp. **PROJECT NAME** Former Whirlpool Park
PROJECT NUMBER 60273522 **PROJECT LOCATION** CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear **GROUND ELEVATION** 669.16 ft **HOLE SIZE** 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling **DATE STARTED / COMPLETED** 5/20/2013 2:53:00 PM/ 5/20/2013 3:30:00 PM
LOGGED BY M. Papp **CHECKED BY** B.M. Bagley **NORTHING** 585842.15 **EASTING** 1814628.66
NOTES Phase II ESA **GROUND WATER LEVEL:** **TIME OF DRILLING** Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0								
		19.2 ppm	1.5	IA#1S3-0002		1.0	Dry, dark brown, SANDY SILT (Trace red brick, grass/roots at top, FILL)	668.2
2						2.0	Damp, dark brown, POORLY GRADED SAND (Trace red brick, FILL)	667.2
	88	50.6 ppm	4	IA#1S3-0204 Full Scan		4.0	Damp, brown, FAT CLAY (Trace coarse sand and sub-angular gravel)	665.2
4		4.2 ppm	3	IA#1S3-0406		6.0	Damp, brown with light gray mottling, FAT CLAY (Trace coarse sand and sub-angular gravel)	663.2
6	250		4.5+				Damp, brown, FAT CLAY (Few coarse sand, trace small sub-angular gravel, vertical light gray banding)	
		19.5 ppm	4.5+	IA#1S3-0608				
8								
	175	18.6 ppm	4.5+	IA#1S3-0810				
10						10.0	Termination of borehole at 10.0 feet.	659.2

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.
PROJECT NUMBER 60273522
DRILLING CONTRACTOR Boart Longyear
DRILLING METHOD Direct Push/Dual Core Drilling
LOGGED BY M. Papp **CHECKED BY** B.M. Bagley
NOTES Phase II ESA

PROJECT NAME Former Whirlpool Park
PROJECT LOCATION CR 187, Green Springs Ohio, 43410
GROUND ELEVATION 669.35 ft **HOLE SIZE** 3.25 in.
DATE STARTED / COMPLETED 5/20/2013 1:30:00 PM/ 5/20/2013 1:53:00 PM
NORTHING 585846.88 **EASTING** 1814686.64
GROUND WATER LEVEL: **TIME OF DRILLING** Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
1.5	100	5-ppm	2.1	IA#1S4-0002	[Cross-hatched pattern]	1.5	Dry, dark brown, SANDY SILT (Trace red brick, grass/roots at top, FILL) 667.9
2.0			3.2			2.0	Dry, dark brown, CLAYEY SAND (FILL) 667.4
3.3	100	2.8-ppm	3.3	IA#1S4-0204	[Diagonal line pattern]		Dry, brown, LEAN CLAY (Few coarse sand, trace sub-angular gravel)
3.2			3.2				
4.5	100	6.5-ppm	4.5+	IA#1S4-0406			
6.0	100					6.0	Same as Above 663.4
8.0	100	3.3-ppm	4.5+	IA#1S4-0608			
8.0						8.0	Refusal at 8.0 feet. Termination of borehole at 8.0 feet. 661.4

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 670.5 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/20/2013 1:14:00 PM/ 5/20/2013 6:00:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585747.02 EASTING 1814597.26
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0								
			1.75			0.8	Dry, brown, SANDY SILT (Trace red brick, grass/roots at top, FILL)	669.7
						1.6	Dry, brown, POORLY GRADED SAND (FILL)	668.9
2	40	26.1 ppm	4.5+	IA#1S5-0005 Full Scan			Damp, brown, LEAN CLAY (Trace coarse sand and roots, gray root trace)	
4						5.0	Damp, brown, LEAN CLAY (trace coarse sand and sub-rounded gravel)	665.5
6	160	16.3 ppm	4.5+	IA#1S5-0506				
		18.2 ppm	4.5+	IA#1S5-0608				
8	160	7.7 ppm	4.5+	IA#1S5-0810				
10						10.0	Termination of borehole at 10.0 feet.	660.5

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 670.87 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/20/2013 7:56:00 AM/ 5/20/2013 8:28:00 AM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585651.65 EASTING 1814720.42
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
			1				Dry, dark brown, SANDY SILT (Topsoil, grass/roots at top, FILL)
		1.1-ppm		IA#1S6-0002		0.9	670.0
			1.5				Moist, brown, CLAYEY SAND (Trace red brick fragments, FILL)
2							
	74		1				
		3.1-ppm		IA#1S6-0204			
			1			3.6	667.3
4						3.7	667.2
							Moist, brown, CLAYEY SAND (Few sub rounded gravel, trace red brick fragments, Fill)
							Moist, brown, FAT CLAY (Trace coarse sand)
			4.5+				
		3.6-ppm		IA#1S6-0406			
			4.5+				
6						6.0	664.9
	200		4.5+				Moist, brown, LEAN CLAY (Few fine sand, vertical red-brown banding)
		3-ppm		IA#1S6-0608		7.0	663.9
			4.5+				Moist, gray brown, LEAN CLAY (Trace sand and sub-rounded gravel, vertical red-brown banding)
8							
	148						
		3.8-ppm	4.5+	IA#1S6-0810		9.0	661.9
							Moist, gray, FAT CLAY (Trace coarse sand & sub-rounded gravel, vertical red-brown banding)
10						10.0	660.9

Termination of borehole at 10.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 653.18 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/21/2013 10:55:00 AM/ 5/21/2013 11:32:00 AM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585608.86 EASTING 1814518.16
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0								
			1.75			0.1	Asphaltic Concrete	653.1
						0.3	Dry, olive, CLAYEY SAND (Trace red brick, FILL)	652.9
						0.5	Moist, light gray, POORLY GRADED SAND (FILL)	652.7
			2.1				Moist, brown with light gray mottling, LEAN CLAY (Trace coarse sand)	
2			4.5+					
	42	2.3-ppm		IA#1S7-0005				
			4.5+					
4								
						5.0		648.2
		2.5-ppm		IA#1S7-0506 Full Scan			Damp, brown, LEAN CLAY (Trace coarse sand)	
6	172							
		0.8-ppm		IA#1S7-0608				
			4.5+					
8						8.0		645.2
							Damp, gray, LEAN CLAY (Few coarse sand)	
	160	2.2-ppm		IA#1S7-0810				
10						10.0		643.2

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Termination of borehole at 10.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 652.67 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/21/2013 11:40:00 AM/ 5/21/2013 12:01:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585483.35 EASTING 1814557.37
NOTES Phase II ESA, Asphalt at top of boring	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	Elevation
0								
			4.5	IA#1S8-0002		0.1	Asphaltic Concrete	652.6
		0.2-ppm	3.25			1.8	Moist, olive, CLAYEY SAND (Trace red brick and sub-angular gravel, FILL)	650.9
2			4.5	IA#1S8-0204, 0204-B			Damp, brown, LEAN CLAY (Trace coarse sand)	
	56	0.7-ppm	3.25			4.0		648.7
4			3.6	IA#1S8-046.8			Damp, brown with olive mottling, LEAN CLAY (Trace coarse sand)	
		1.9-ppm	4.5+			6.8		645.9
6	139							

Refusal at 6.8 feet.
Termination of borehole at 6.8 feet.

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 657.78 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/21/2013 9:48:00 AM/ 5/21/2013 10:30:00 AM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585641.39 EASTING 1814468.15
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
		0.9-ppm	0	IA#1S9-0002		1.0	Dry, brown, SANDY SILT (Trace red brick, coarse sand and sub-angular gravel, FILL) 656.8
2		3.5				2.5	Moist, brown, LEAN CLAY WITH SAND (Trace red brick and sub-angular gravel, FILL) 655.3
	64	1.8-ppm	3.5	IA#1S9-0204		4.5	Moist, brown, SANDY LEAN CLAY (Trace red brick, FILL) 653.3
4		1.5				5.0	Moist, brown, POORLY GRADED SAND WITH CLAY (Trace red brick, FILL) 652.8
		1.5-ppm	3	IA#1S9-0406		7.2	Moist, brown, SANDY LEAN CLAY (Trace red brick, FILL) 650.6
6		0-ppm	0.5	IA#1S9-0608		8.0	Moist, gray, FAT CLAY (Trace fine sand) 649.8
8	72	0.75				10.0	Moist, gray, FAT CLAY WITH SAND 647.8
		2.5-ppm	0.8	IA#1S9-0810		11.7	Wet, gray with olive mottling, FAT CLAY WITH SAND (Trace sub-angular gravel) 646.1
10		0.6				15.0	Dry, gray, FAT CLAY (Trace coarse sand) 642.8
		0.7-ppm	0	IA#1S9-1012			
12		4.5+					
	90						
14		1.9-ppm	4.5+	IA#1S9-1215			

Termination of borehole at 15.0 feet.

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 658.16 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/21/2013 8:43:00 AM/ 5/21/2013 9:45:00 AM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585454.45 EASTING 1814513.9
NOTES Phase II ESA, Concrete at top of boring	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0							Concrete	
						0.4	Moist, dark brown, CLAYEY SAND (Trace red brick, fine sand and sub-rounded gravel, FILL)	657.8
2	16	0-ppm	2.75	IA#1S9-0005				
4						5.0	Moist, gray brown, FAT CLAY WITH SAND (Trace red brick, FILL)	653.2
		7.4-ppm	0	IA#1S9-0506		5.5	Moist, gray brown, FAT CLAY WITH SAND (Trace red brick and coarse sand, FILL)	652.7
6						6.0	Moist, brown, FAT CLAY (Trace fine to coarse sand)	652.2
	140	0-ppm	3.5	IA#1S9-0608				
			1.2					
8								
	112	3.8-ppm	2.5	IA#1S9-0810				
						9.5	Moist, brown, LEAN CLAY (Trace coarse sand)	648.7
10						10.0		648.2

Termination of borehole at 10.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR AECOM	GROUND ELEVATION 661.05 ft HOLE SIZE 2 in.
DRILLING METHOD Hand Auger	DATE STARTED / COMPLETED 5/30/2013 11:30:00 AM/ 5/30/2013 11:45:00 AM
LOGGED BY B. Ergezen CHECKED BY B.M. Bagley	NORTHING 585889.12 EASTING 1814451.18
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0						
50		IA#1S11-0001		0.9	Wet, black, SANDY SILT (loose, some roots, trace clay and gravel)	660.2
				1.0	Moist, light gray, WELL GRADED SAND (Loose)	660.1
50		IA#1S11-0102			Dry, LEAN CLAY (Compact, trace small gravel)	
2				2.0		659.1

Refusal at 2.0 feet.
Termination of borehole at 2.0 feet.

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR AECOM	GROUND ELEVATION 661.07 ft HOLE SIZE 2 in.
DRILLING METHOD Hand Auger	DATE STARTED / COMPLETED 5/30/2013 12:30:00 PM/ 5/30/2013 12:45:00 PM
LOGGED BY B. Ergezen CHECKED BY B.M. Bagley	NORTHING 585904.78 EASTING 1814583.61
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0						
50		IA#1S12-0001		1.0	Wet, black, SANDY SILT (loose, some roots, trace clay and gravel)	660.1
50		IA#1S12-0102		2.0	Dry, LEAN CLAY (Compact, trace small gravel)	659.1

Refusal at 2.0 feet.
Termination of borehole at 2.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 662.66 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/20/2013 3:40:00 PM/ 5/20/2013 5:00:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585873.83 EASTING 1814578.91
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0								
			4.5+	IA#1S13-0002		1.4	Dry, gray, POORLY GRADED GRAVEL WITH SAND (FILL)	661.3
		4.1-ppm	4.5+					
2							Dry, brown, LEAN CLAY (Trace coarse sand and sub-angular gravel)	
			4.5+	IA#1S13-0204				
	68	3.8-ppm	4.5					
4						4.0		658.7
			4.1	IA#1S13-0406			Dry, brown, LEAN CLAY (Trace shale frags, light gray root trace)	
		2.3-ppm	4.5+					
6								
			4.5+	IA#1S13-067.5				
	200	13.7-ppm						
8						7.5		655.2
							Moist, gray, FAT CLAY	
	68	2.1-ppm	2.25	IA#1S13-0810				
10						10.0		652.7
Termination of borehole at 10.0 feet.								

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR AECOM	GROUND ELEVATION 661.4 ft HOLE SIZE 2 in.
DRILLING METHOD Hand Auger	DATE STARTED / COMPLETED 5/30/2013 1:10:00 PM/ 5/30/2013 1:25:00 PM
LOGGED BY B. Ergezen CHECKED BY B.M. Bagley	NORTHING 585878.21 EASTING 1814698.92
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0						
50		IA#1S14-0001		1.0	Wet, black, SANDY SILT (loose, some roots, trace clay and gravel)	660.4
50		IA#1S14-0102		2.0	Dry, LEAN CLAY (Compact, trace small gravel)	659.4

Refusal at 2.0 feet.
Termination of borehole at 2.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR AECOM	GROUND ELEVATION 662.93 ft HOLE SIZE 2 in.
DRILLING METHOD Hand Auger	DATE STARTED / COMPLETED 5/30/2013 1:30:00 PM/ 5/30/2013 1:45:00 PM
LOGGED BY B. Ergezen CHECKED BY B.M. Bagley	NORTHING 585787.29 EASTING 1814841.72
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0						
50		IA#1S15-0001		1.0	Wet, black, SANDY SILT (loose, some roots, trace clay and gravel)	661.9
50		IA#1S15-0102		2.0	Dry, LEAN CLAY (Compact, trace small gravel)	660.9
2					Refusal at 2.0 feet. Termination of borehole at 2.0 feet.	

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR AECOM	GROUND ELEVATION 662.94 ft HOLE SIZE 2 in.
DRILLING METHOD Hand Auger	DATE STARTED / COMPLETED 5/30/2013 2:00:00 PM/ 5/30/2013 2:15:00 PM
LOGGED BY B. Ergezen CHECKED BY B.M. Bagley	NORTHING 585587.9 EASTING 1814938.09
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0						
50		IA#1S16-0001		1.0	Wet, black, SANDY SILT (loose, some roots, trace clay and gravel)	661.9
50		IA#1S16-0102		2.0	Dry, LEAN CLAY (Compact, trace small gravel)	660.9
2				2.0	Refusal at 2.0 feet. Termination of borehole at 2.0 feet.	660.9

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 671.69 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/21/2013 2:15:00 PM/ 5/21/2013 2:42:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585637.03 EASTING 1815018.02
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
			1.5				Dry, dark brown, SANDY SILT (Topsoil, grass/roots at top)
		0-ppm		IA#1S17-0002		1.0	670.7
			1				Very moist, light brown with red-brown mottling, POORLY GRADED SAND (Trace clay)
2							
	48	0-ppm	0.5	IA#1S17-0204			
			1.5			3.8	667.9
4							Very moist, brown with red-brown mottling, POORLY GRADED SAND (Trace clay)
		0-ppm	0.8	IA#1S17-0406			
			1.25			5.7	666.0
6							Moist, gray, LEAN CLAY (Trace coarse sand)
		0-ppm	4.5+	IA#1S17-0608			
8	96						
		0-ppm	4.5+	IA#1S17-0810 Full Scan			
10						10.0	661.7

Termination of borehole at 10.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR AECOM	GROUND ELEVATION 662.28 ft HOLE SIZE 2 in.
DRILLING METHOD Hand Auger	DATE STARTED / COMPLETED 5/30/2013 4:45:00 PM/ 5/30/2013 4:55:00 PM
LOGGED BY B. Ergezen CHECKED BY B.M. Bagley	NORTHING 585400.8 EASTING 1814887.68
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0						
50		IA#1S18-0001		1.0	Wet, black, SANDY SILT (loose, some roots, trace clay and gravel)	661.3
50		IA#1S18-0102		2.0	Dry, LEAN CLAY (Compact, trace small gravel)	660.3

Refusal at 2.0 feet.
Termination of borehole at 2.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp. PROJECT NAME Former Whirlpool Park
 PROJECT NUMBER 60273522 PROJECT LOCATION CR 187, Green Springs Ohio, 43410
 DRILLING CONTRACTOR AECOM GROUND ELEVATION 662.77 ft HOLE SIZE 2 in.
 DRILLING METHOD Hand Auger DATE STARTED / COMPLETED 5/30/2013 5:40:00 PM/ 5/30/2013 6:00:00 PM
 LOGGED BY B. Ergezen CHECKED BY B.M. Bagley NORTHING 585524.01 EASTING 1815012.89
 NOTES Phase II ESA GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0					
2	13	IA#1S19-0001			Wet, black, SANDY SILT (loose, some roots, trace clay and gravel)
4		IA#1S19-0104		4.0	
					658.8

Refusal at 4.0 feet.
 Termination of borehole at 4.0 feet.

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR AECOM	GROUND ELEVATION 662.77 ft HOLE SIZE 2 in.
DRILLING METHOD Hand Auger	DATE STARTED / COMPLETED 6/12/2013 9:35:00 AM/ 6/12/2013 10:45:00 AM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585524.01 EASTING 1815012.89
NOTES Geotech data collected, see Appendices for results	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0					
2	100	IA#1S19-0002		2.0	Wet, dark gray, ELASTIC SILT WITH SAND (Sand is fine to medium grained, little clay, loose, black organic staining, roots and mottling throughout) 660.8
4	100	IA#1S19-0204		4.0	Wet, dark gray, GRAY ELASTIC SILT WITH SAND (Olive color 3.7-4ft, little fine to medium sand) 658.8
5.3	100	IA#1S19A-044.6 IA#1S19A-4.65.25		5.3	Moist, gray, LEAN CLAY WITH SAND (Sand is fine to coarse, little clay, trace fine sub-rounded gravel) 657.5

Refusal at 5.3 feet.
Termination of borehole at 5.3 feet.

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 672.26 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/21/2013 2:50:00 PM/ 5/21/2013 3:17:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585571.39 EASTING 1815076.78
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0								
			1.25	IA#1S20-0002			Moist, dark brown, SANDY SILT (Topsoil, grass on top)	
		0-ppm	1.2			2.0		670.3
2								
	52		0.6	IA#1S20-0204			Very Moist, light brown, POORLY GRADED SAND (Trace clay)	
		0-ppm	0.7			4.0		668.3
4								
			0.75	IA#1S20-0406		5.0	Moist, brown, FAT CLAY (Trace small sub-rounded gravel, cobble at 5ft)	667.3
		0-ppm						
			4				Damp, brown, LEAN CLAY (Trace coarse sand and sub-rounded gravel)	
6								
			4.5+	IA#1S20-0608		7.0	Damp, gray, LEAN CLAY (Trace coarse sand and sub-rounded gravel)	665.3
		0-ppm						
	100		4.5+					
8						8.0	Dry, gray, LEAN CLAY (Trace coarse sand and sub-angular gravel)	664.3
			4.5+	IA#1S20-0810				
		0-ppm						
10						10.0		662.3

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Termination of borehole at 10.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 668.12 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/22/2013 10:20:00 AM/ 5/22/2013 10:56:00 AM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585294.37 EASTING 1814900.6
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0								
			1.6		[Hatched Pattern]		Dry, brown, CLAY WITH SAND (Topsoil, grass/roots at top)	
		3.4-ppm		IA#1S21-0002		1.8		666.3
			3.25			2.0	Damp, brown, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel)	666.1
2							Damp, gray-brown, LEAN CLAY (Few fine to coarse sand, vertical red-brown banding)	
	100		4.5+		[Hatched Pattern]			
		1.3-ppm		IA#1S21-0204		3.5		664.6
			4.5				Damp, gray, LEAN CLAY (Few fine to coarse sand, vertical red-brown banding)	
4								
			4.5+		[Hatched Pattern]			
		2.9-ppm		IA#1S21-0406		5.0		663.1
			4.5+				Dry, gray-brown, LEAN CLAY (Trace coarse sand)	
6	215					6.0		662.1
			4.5+		[Hatched Pattern]		Dry, gray-brown, LEAN CLAY (Trace coarse sand and sub-rounded gravel)	
		4.6-ppm		IA#1S21-0608				
			4.5+					
8								
	60				[Hatched Pattern]			
		5.6-ppm	4.5+	IA#1S21-0810 Full Scan				
10						10.0		658.1

Termination of borehole at 10.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 667.55 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/22/2013 9:39:00 AM/ 5/22/2013 10:06:00 AM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585417.21 EASTING 1814983.36
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
			4.1	IA#1S22-0002, 0002-MS/MSD		1.0	Dry, brown, LEAN CLAY WITH SAND (Topsoil, grass/roots at top) 666.6
		3.5-ppm	2.5				Damp, brown, LEAN CLAY (Trace fine sand, vertical light gray banding)
2			4.5+	IA#1S22-0204			
	100	6.4-ppm	4.5+				
4			4.5+	IA#1S22-0406		5.0	Damp, brown, LEAN CLAY (Few fine-coarse sand, trace sub-rounded gravel, vertical red-brown banding) 662.6
		6.8-ppm	4.5+				
6			4.5+	IA#1S22-0608		7.0	Damp, brown, LEAN CLAY (Few fine-coarse sand, trace sub-rounded gravel) 660.6
		7.8-ppm	4.5+				
8			4.5+	IA#1S22-0810		8.5	Damp, gray-brown, LEAN CLAY (Few fine-coarse sand, trace sub-rounded gravel) 659.1
	153	5.4-ppm	4.5+				
10					10.0	Termination of borehole at 10.0 feet. 657.6	

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.
 PROJECT NUMBER 60273522
 DRILLING CONTRACTOR Boart Longyear
 DRILLING METHOD Direct Push/Dual Core Drilling
 LOGGED BY M. Papp CHECKED BY B.M. Bagley
 NOTES Phase II ESA

PROJECT NAME Former Whirlpool Park
 PROJECT LOCATION CR 187, Green Springs Ohio, 43410
 GROUND ELEVATION 672.67 ft HOLE SIZE 3.25 in.
 DATE STARTED / COMPLETED 5/21/2013 3:30:00 PM/ 5/21/2013 4:01:00 PM
 NORTHING 585491.74 EASTING 1815142.13
 GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
						0.5	Dry, dark brown, SANDY SILT (Topsoil, grass/roots at top) 672.2
						1.0	Dry, dark brown, POORLY GRADED SAND (Trace clay) 671.7
			0.7			1.2	Moist, brown, POORLY GRADED SAND (Few clay) 671.5
							Moist, brown, FAT CLAY (Trace coarse sand)
2	36	0-ppm		IA#1S23-0005			
			NC				
4							
						5.0	Damp, brown, LEAN CLAY (Trace coarse sand) 667.7
6		0-ppm	4	IA#1S23-0506			
						6.0	Moist, brown, LEAN CLAY (Few fine sand) 666.7
	160	0-ppm	2.5	IA#1S23-0608			
			4.5+			7.5	Moist, brown LEAN CLAY (Trace coarse sand) 665.2
8						8.0	Damp, brown, LEAN CLAY (Few coarse sand, trace sub-angular gravel, vertical red-brown banding) 664.7
	180	0-ppm	3.8	IA#1S23-0810 Full Scan			
			4.5+			9.0	Dry, gray, LEAN CLAY (Few coarse sand) 663.7
10						10.0	662.7

Termination of borehole at 10.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 668.11 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/22/2013 11:04:00 AM/ 5/22/2013 11:36:00 AM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585187.97 EASTING 1814941.54
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0								
			2.25			0.5	Dry, dark brown, SANDY SILT (Topsoil, grass/roots at top)	667.6
		3.9-ppm		IA#1S24-0002			Moist, brown, LEAN CLAY WITH SAND (Trace roots and sub-rounded gravel)	
2			1.75			2.0		666.1
	60		3.25				Moist, brown, LEAN CLAY (Few roots, red-brown root trace)	
		2.5-ppm		IA#1S24-0204				
4			3.25					
			2.75					
		1.4-ppm		IA#1S24-0406		5.0	Moist, gray-brown, FAT CLAY (Trace coarse sand)	663.1
6	160		1.9					
			2.1					
		0-ppm		IA#1S24-0608		7.0	Moist, gray-brown, LEAN CLAY (Few coarse sand, trace sub-rounded gravel)	661.1
			2.25					
8	147		2.25					
		0.5-ppm		IA#1S24-0810				
			3.1					
10						10.0		658.1

Termination of borehole at 10.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 671.96 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/22/2013 1:18:00 PM/ 5/22/2013 1:45:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585303.88 EASTING 1814987.83
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	Env. Data	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0								
			0.3	IA#1S25-0002, IA#1S25-0002-B		0.5	Dry, gray, WELL GRADED SAND WITH GRAVEL (FILL)	671.5
						1.0	Damp, light brown, POORLY GRADED SAND (FILL)	671.0
			0.2			1.5	Moist, brown with red-brown mottling, CLAYEY SAND (FILL)	670.5
2						2.0	Damp, brown, POORLY GRADED SAND	670.0
	86		0.65	IA#1S25-0204		2.5	Wet, brown, POORLY GRADED SAND	669.5
						4.0	Damp, brown, LEAN CLAY (Trace coarse sand)	
4			4.5+	IA#1S25-0406		4.0	Damp, gray-brown, LEAN CLAY (Trace coarse sand)	668.0
						5.0	Damp, gray-brown, LEAN CLAY (Trace coarse sand and sub-rounded gravel)	667.0
			4.5+	IA#1S25-0608				
6	85							
			4.5+	IA#1S25-0810				
8								
	153		4.5+					
10						10.0		662.0

Termination of borehole at 10.0 feet.

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 671.76 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/22/2013 8:36:00 AM/ 5/22/2013 8:59:00 AM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585370.44 EASTING 1815099.81
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
			3.25	IA#1S26-0002			Dry, dark brown, SANDY SILT (Topsoil, grass/roots at top, FILL)
		1.3-ppm	0			1.5	670.3
2						2.0	Dry, gray, WELL GRADED GRAVEL (Few silt, concrete chips, FILL)
							669.8
	60		1.2	IA#1S26-0204			Moist, brown, LEAN CLAY WITH SAND (FILL)
		0.9-ppm	2.1				
4			1.3	IA#1S26-0406 Full Scan		5.0	
		16.2-ppm	1.5				666.8
						5.5	Moist, brown, LEAN CLAY WITH SAND
							666.3
6			0.7	IA#1S26-0608		6.0	Moist, gray, LEAN SANDY CLAY
	71	5.6-ppm	0				665.8
8			0				Very moist, gray, LEAN SANDY CLAY
						9.0	
							662.8
			0.2	IA#1S26-0811			Wet, gray-brown, SANDY FAT CLAY
10	105	9.4-ppm	1				
						11.0	

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*All Soil Classifications based on field observations.

Termination of borehole at 11.0 feet.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR AECOM	GROUND ELEVATION 664.07 ft HOLE SIZE 2 in.
DRILLING METHOD Hand Auger	DATE STARTED / COMPLETED 5/30/2013 6:00:00 PM/ 5/30/2013 6:15:00 PM
LOGGED BY B. Ergezen CHECKED BY B.M. Bagley	NORTHING 585410.4 EASTING 1815096.13
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0					
50		IA#1S27-0001	[Vertical lines]	1.0	Wet, black, SANDY SILT (loose, some roots, trace clay and gravel) 663.1
50		IA#1S27-0102	[Diagonal hatching]	2.0	Dry, LEAN CLAY (Compact, trace small gravel) 662.1
2					

Refusal at 2.0 feet.
Termination of borehole at 2.0 feet.

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 670.17 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/22/2013 7:55:00 AM/ 5/22/2013 8:22:00 AM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585424.49 EASTING 1815126.3
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0								
			1.1			0.8	Dry, dark brown, SANDY SILT (Topsoil, roots/grass at top)	669.4
		8.8-ppm		IA#1S28-0002		1.3	Dry, brown, POORLY GRADED SAND (Trace roots)	668.9
			3.25			2.0	Dry, brown, LEAN CLAY (Few coarse sand)	668.2
2							Moist, brown, LEAN CLAY (Few coarse sand, gray root trace, shale frags at 3.0ft)	
	88		2.1					
		7.6-ppm		IA#1S28-0204				
			4.4					
4								
			4.5+			5.0		665.2
		2.1-ppm		IA#1S28-0406			Damp, brown, LEAN CLAY (Trace coarse sand, vertical red-brown banding)	
			4.5+					
6								
	235		4.5+			7.0		663.2
		3.3-ppm		IA#1S28-0608			Damp, brown, LEAN CLAY (Trace fine to coarse sand, vertical red-brown banding)	
			4.5+					
8								
	167							
		4.2-ppm	4.5+	IA#1S28-0810				
10						10.0		660.2

Termination of borehole at 10.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 671.25 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/22/2013 11:45:00 AM/ 5/22/2013 12:23:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585193.05 EASTING 1814982.58
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
		5.9-ppm	0	IA#1S29-0002 Full Scan		1.5	Dry, light gray, WELL GRADED SAND WITH GRAVEL (FILL) 669.8
			0.7			2.0	Moist, brown, POORLY GRADEDE SAND (FILL) 669.3
2						2.8	Moist, brown, CLAYEY SAND (Trace sub rounded gravel, FILL) 668.5
	54	1.5-ppm	4.4	IA#1S29-0204		3.5	Moist, brown, SANDY LEAN CLAY 667.8
			3.3			5.0	Damp, gray-brown, LEAN CLAY (Trace sub-rounded gravel) 666.3
4		2.6-ppm	4.5	IA#1S29-0405		7.0	Damp, gray-brown, LEAN CLAY (Trace coarse sand, large gravel in shoe @ 7') 664.3
			3.65	IA#1S29-0507			
6	30	2.7-ppm				10.0	Damp, gray-brown, LEAN CLAY (Trace sub-rounded gravel and coarse sand) 661.3
			3.2	IA#1S29-0709			
8	167	3.8-ppm	4.25				
			4	IA#1S29-0910			
10		3.4-ppm					

Termination of borehole at 10.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 673.01 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/22/2013 2:55:00 PM/ 5/22/2013 3:15:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585300.59 EASTING 1815093.76
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
		0.8-ppm	0	IA#1S30-0002		2.0	Dry, dark brown, SANDY SILT (Topsoil, grass/roots at top, FILL) 671.0
2			1.5				
	72	1.9-ppm	1.6	IA#1S30-0204		3.0	Damp, light brown, POORLY GRADED SAND (Trace shale frags, FILL) 670.0
			3.25				
4		2.2-ppm	4.5+	IA#1S30-0405		5.5	Moist, brown with light gray mottling, LEAN CLAY (Trace coarse sand, vertical gray banding at 5 ft.) 667.5
			4.5+				
6	195	5.1-ppm	4.5+	IA#1S30-0507 Full Scan		6.4	Wet, brown, LEAN CLAY (Trace coarse sand, vertical gray banding) 666.6
			2.5				
						6.8	Wet, brown, SILT 666.2
8		0.1-ppm	4.5+	IA#1S30-0710			Moist, brown with light gray mottling, LEAN CLAY (Trace coarse sand)
	2						
10						10.0	Termination of borehole at 10.0 feet. 663.0

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 672.13 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/22/2013 3:28:00 PM/ 5/22/2013 4:12:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585345.89 EASTING 1815135.28
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
			1.5				Dry, dark brown, SANDY SILT (Topsoil, grass/roots at top, FILL)
		1.8-ppm		IA#1S31-0002		1.0	671.1
2			1			1.5	Dry, brown, CLAYEY SAND (Trace angular gravel, FILL)
							670.6
	76		0.2				Wet, brown, POORLY GRADED SAND (Trace green mottling/staining, FILL)
		2.2-ppm		IA#1S31-0204			
4			0.3				
		4-ppm	0.25				
				IA#1S31-0406		5.5	666.6
6			0.3				Wet, dark gray/olive, FAT CLAY (Strong petroleum odor, trace wood at 10 ft, FILL)
	100	105-ppm	0	IA#1S31-0608, 0608-B, Full Scan			
8							
		110-ppm	0	IA#1S31-0810		10.0	662.1
10							Very moist, tan, FAT CLAY (Trace roots/wood at top of layer, dark gray staining, FILL)
		4.5-ppm	0	IA#1S31-1012		11.5	660.6
12							Moist, brown, LEAN CLAY (Trace coarse sand and sub-rounded gravel, light gray root trace)
	84		4.5+				
		1.4-ppm		IA#1S31-1214			
14							
		3.4-ppm	4.5+	IA#1S31-1417		15.0	657.1
16	250						Damp, brown, LEAN CLAY (Few coarse sand, trace sub-rounded gravel)
			3.8				
						17.0	655.1
							Termination of borehole at 17.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 672.89 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/21/2013 4:20:00 PM/ 5/21/2013 4:45:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585404.43 EASTING 1815197.27
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	Env. Data	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
			0.8			0.5	Moist, dark brown, SANDY SILT (Topsoil, grass/roots on top) 672.4
			0.5	IA#1S32-0002			Moist, brown, POORLY GRADED SAND
2						2.0	670.9
	72		0.5	IA#1S32-0204			Moist, brown, LEAN CLAY (Trace coarse sand)
			4.5+				
4			4.5+	IA#1S32-0406, 0406-B			
			4.5+				
6	225		4.5+	IA#1S32-0608		6.0	Damp, brown, LEAN CLAY (Trace coarse sand, vertical red-brown banding) 666.9
			4.5+				
8	147		4.5+	IA#1S32-0810			
10						10.0	662.9

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Termination of borehole at 10.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 672.66 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/24/2013 8:25:00 AM/ 5/24/2013 8:58:00 AM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585168.09 EASTING 1815048.19
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0								
			0			0.4	Dry, dark brown, POORLY GRADED SAND (Topsoil, roots/grass on top)	672.3
		3.6-ppm		IA#1S33-0002		1.0	Dary, light brown, POORLY GRADED SAND	671.7
			1.75				Moist, brown, POORLY GRADED SAND WITH SILT (Laminar coarse sand seam at 3.5 ft)	
2	80		2.1					
		4.7-ppm		IA#1S33-0204				
			4.1			3.8		668.9
4						4.0	Brown, moist, LEAN CLAY (Trace coarse sand)	668.7
			4.5+				Moist, gray-brown, LEAN CLAY (Trace coarse sand)	
		5.9-ppm		IA#1S33-0406				
			4.5+					
6	170							
		12.6-ppm	1.75	IA#1S33-0608 Full Scan		6.5	Very moist, gray-brown, LEAN CLAY (Trace coarse sand)	666.2
8								
						8.0	Very moist, gray, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel)	664.7
	117							
		8.2-ppm	4.5+	IA#1S33-0810				
10						10.0		662.7

Termination of borehole at 10.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 673.36 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/23/2013 6:13:00 PM/ 5/23/2013 7:10:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585205.09 EASTING 1815085.27
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0								
			0.75	IA#1S34-0002		0.5	Damp, dark brown, SANDY SILT (Topsoil)	672.9
		0-ppm	0.65			1.7	Moist, light brown, POORLY GRADED SAND (Few roots)	671.7
2						2.0	Moist, brown, CLAYEY SAND	671.4
	84		0.5	IA#1S34-0204			Wet, brown, SILTY SAND (Trace roots)	
		0-ppm	4.5+			3.5		669.9
4						4.0	Moist, brown, LEAN CLAY (Trace fine to coarse sand and sub-rounded gravel)	669.4
			3.6	IA#1S34-0406			Moist, gray, LEAN CLAY (Trace fine to coarse sand and sub-rounded gravel)	
6	205		2					
		0-ppm	4.5+	IA#1S34-0608				
			4.5+					
8								
	103		4.5+	IA#1S34-0810 Full Scan				
10		0-ppm				10.0		663.4

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Termination of borehole at 10.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 672.8 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/22/2013 4:46:00 PM/ 5/22/2013 5:40:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585295.54 EASTING 1815194.27
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0								
			2.25			0.5	Concrete 672.3	
			0			1.4	Damp, brown, LEAN CLAY (Olive mottling, FILL) 671.4	
2								Very moist, dark gray-olive, FAT CLAY (Petroleum odor, FILL)
	36	11.1-ppm	0	IA#1S35-0005				
4							5.0	667.8
								Very moist, dark gray-olive, FAT CLAY (Few med sand, petroleum odor, FILL)
6		32.7-ppm	0	IA#1S35-0507			6.7	666.1
							7.3	665.5
	100	42.1-ppm	0	IA#1S35-0709 Full Scan				Very moist, dark gray-olive, WELL GRADED SAND (Petroleum odor, FILL)
8								Very moist, dark gray-olive, FAT CLAY (Few med sand, petroleum odor, FILL)
		3.8-ppm		IA#1S35-0911			10.8	662.0
10								Very moist, tan with dark gray mottling, FAT CLAY WITH SAND (Trace roots, FILL)
		1.1-ppm	0	IA#1S35-1113			12.0	660.8
12	100							Very moist, dark brown, SANDY FAT CLAY (FILL)
							13.0	659.8
							13.7	659.1
14		4.6-ppm		IA#1S35-1315				Very moist, dark brown, FAT CLAY (FILL)
						15.0	657.8	
16	100	1.3-ppm	4.6	IA#1S35-1517.5			Damp, brown, LEAN CLAY (Few coarse sand, trace sub-rounded gravel)	
						17.5	655.3	

Refusal at 17.5 feet.
Termination of borehole at 17.5 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 672.57 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/21/2013 4:55:00 PM/ 5/21/2013 5:31:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585347.02 EASTING 1815246.96
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
			4			0.6	Dry, dark brown, SANDY SILT (Topsoil, roots/grass at top, FILL)
		0-ppm		IA#1S36-0002		0.7	Moist, brown, SANDY LEAN CLAY (Trace brick, FILL)
			3.25				Moist, brown, LEAN CLAY (Trace coarse sand and small sub-angular gravel, vertical light gray banding)
2							
	92	0-ppm	4.5+	IA#1S36-0204			
			4.5+				
4							
		0-ppm	4.5+	IA#1S36-0406		5.0	Moist, brown, LEAN CLAY (Few coarse sand, trace fine sub-rounded gravel)
			4.5+				
6							
	250	0-ppm	4.5+	IA#1S36-0608			
8							
	167	0-ppm	4.5+	IA#1S36-0810 Full Scan			
10						10.0	

Termination of borehole at 10.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 673.52 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/23/2013 5:10:00 PM/ 5/23/2013 6:02:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585161.75 EASTING 1815140.82
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
			1.75			0.7	Damp, brown, SANDY SILT (Topsoil, grass/roots at top, FILL) 672.8
		0-ppm		IA#1S37-0002			Damp, light brown, POORLY GRADED SAND (Few silt, FILL)
			0.25			1.9	671.6
2						2.2	Moist, brown with gray mottles, CLAYEY SAND (FILL) 671.3
	76	0-ppm	1	IA#1S37-0204			Damp, brown, LEAN CLAY (Trace fine to coarse sand, vertical red-brown banding)
			4.5+				
4		0-ppm	4.5+	IA#1S37-0406			
			4.5+				
6	200	0-ppm	4.5+	IA#1S37-0608			
			4.5+				
8		0-ppm	4.5+	IA#1S37-0810			
	123						
10		0-ppm	4.5+			10.0	663.5

Termination of borehole at 10.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 673.11 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/23/2013 4:30:00 PM/ 5/23/2013 5:00:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585211.76 EASTING 1815193.02
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
			3.75				Moist, dark brown, SANDY SILT (Topsoil grass/roots at top, FILL)
		0-ppm		IA#1S38-0002		1.0	672.1
			2.75				Damp, brown, SILTY SAND (Trace angular gravel, FILL)
2						2.0	671.1
							Damp, brown, CLAYEY SAND (Trace roots, red-brown mottling, FILL)
	92		1.75			2.5	670.6
		0-ppm		IA#1S38-0204			Moist, brown, LEAN CLAY (Few fine sand, FILL)
			2.3			3.5	669.6
4							Damp, brown, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel, vertical light gray banding)
		0-ppm	4.5+	IA#1S38-0406		5.0	668.1
			4.5+				Damp, brown, LEAN CLAY (Trace fine to coarse sand and sub-rounded gravel, vertical light gray banding)
6	155						
		0-ppm	4.5+	IA#1S38-0608		7.0	666.1
			4				Damp, brown, LEAN CLAY (Trace fine to coarse sand and sub rounded gravel)
8							
	127		4.5+	IA#1S38-0810 Full Scan			
		0-ppm					
			4.5+				
10						10.0	663.1

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Termination of borehole at 10.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp. **PROJECT NAME** Former Whirlpool Park
PROJECT NUMBER 60273522 **PROJECT LOCATION** CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear **GROUND ELEVATION** 672.22 ft **HOLE SIZE** 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling **DATE STARTED / COMPLETED** 5/23/2013 7:45:00 AM/ 5/23/2013 8:38:00 AM
LOGGED BY M. Papp **CHECKED BY** B.M. Bagley **NORTHING** 585247.6 **EASTING** 1815247.63
NOTES Phase II ESA **GROUND WATER LEVEL:** **TIME OF DRILLING** Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
			2.2				Dry, brown, SANDY SILT (Topsoil, roots/grass at top, FILL)
		2.9-ppm	4.5+	IA#1S39-0002		1.0	671.2
2						2.0	Dry, brown, SANDY LEAN CLAY (Trace red brick, FILL)
	78		3.3			2.7	670.2
		5.4-ppm	0	IA#1S39-0204			Dry, brown, SANDY LEAN CLAY (Few red brick, FILL)
4						4.2	669.5
		14.1-ppm		IA#1S39-0406			Wet, brown, POORLY GRADED SAND (FILL)
6							Very moist, olive-green with dark gray staining, FAT CLAY (Petroleum odor, wood frags and woody material, FILL)
	100	50.4-ppm	0	IA#1S39-0608			668.0
8							
		76.4-ppm		IA#1S39-0810			
10						10.0	662.2
		0.25		IA#1S39-1012			Very moist, dark gray, FAT CLAY (Few fine sand, trace wood, FILL)
12		7.2-ppm	1.5			11.8	660.4
	94		4.5+				Moist, brown, LEAN CLAY (Few coarse sand, trace fine sub-rounded gravel, vertical red-brown banding)
		0-ppm	4.5+	IA#1S39-1214			
14							
		3.2-ppm	3.4	IA#1S39-1416		15.0	657.2
			3				Moist, gray-brown, LEAN CLAY (Few fine to coarse sand, trace small sub-rounded gravel, vertical red-brown banding)
16	250	10.8-ppm	2.5	IA#1S39-1617			
						17.0	655.2

Refusal at 17.0 feet.
Termination of borehole at 17.0 feet.

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 672.4 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/23/2013 2:53:00 PM/ 5/23/2013 3:12:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585293.79 EASTING 1815299.15
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
			1			0.6	Dry, brown, SANDY SILT (Topsoil, grass/roots at top, FILL) 671.8
		0-ppm	4.5+	IA#1S40-0002		1.0	Dry, light brown, POORLY GRADED SAND (FILL) 671.4
						1.8	Dry, brown, SILTY SAND (Trace roots, few fine to coarse sand, FILL) 670.6
2			4.5+				Damp, brown, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel)
	82	0-ppm	4.5	IA#1S40-0204			
4			3.8			5.0	Damp, brown, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel) 667.4
		0-ppm	4.5+	IA#1S40-0406			
6			4.5+				
		0-ppm	4.5+	IA#1S40-0608			
8	100						
		0-ppm	4.5+	IA#1S40-0810			
10						10.0	

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Termination of borehole at 10.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 673.1 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/23/2013 3:24:00 PM/ 5/23/2013 3:52:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585154.65 EASTING 1815248.26
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
			1.1			0.6	Dry, brown, SANDY SILT (Topsoil, roots/grass at top, FILL) 672.5
		0-ppm		IA#1S41-0002		1.2	Dry, brown, POORLY GRADED SAND (Trace red brick, Fill) 671.9
			3			1.4	Moist, brown, SANDY LEAN CLAY (Trace roots, FILL) 671.7
2							Damp, brown with light gray mottling, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel)
	76	0-ppm	3.7	IA#1S41-0204			
			4.5+				
4		0-ppm	4.5+	IA#1S41-0406		5.0	Damp, brown, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel) 668.1
6							
	125	0-ppm	4.5+	IA#1S41-0608			
8		0-ppm		IA#1S41-0809			
						9.0	

Refusal at 9.0 feet.
Termination of borehole at 9.0 feet.

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 673.02 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/23/2013 9:00:00 AM/ 5/23/2013 9:33:00 AM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585207.07 EASTING 1815292.94
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
			0.25			0.5	Dry, brown, SANDY SILT (Topsoil, roots/grass at top, FILL) 672.5
		0.7-ppm	4.5+	IA#1S42-0002			Dry, brown, SANDY CLAY (Trace fine to coarse sand and sub-rounded gravel, FILL)
2	68		4				
		0.8-ppm	0.4	IA#1S42-0204		3.5	Moist, brownish-green, FAT CLAY (Few fine sand, green mottling, FILL) 669.5
4						4.0	Moist, brown with light and dark gray mottling, LEAN CLAY (Few fine to coarse sand, trace roots) 669.0
		1.3-ppm	1.25	IA#1S42-0406			
			0.3			5.5	Damp, brown, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel, vertical red-brown banding) 667.5
6	150		4.5+				
		4.6-ppm	4.5+	IA#1S42-0608		7.0	Damp, brown, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel, vertical light gray banding) 666.0
8							
	100						
		5.4-ppm		IA#1S42-0810 Full Scan			
10						10.0	Termination of borehole at 10.0 feet. 663.0

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 671.76 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/23/2013 2:05:00 PM/ 5/23/2013 2:42:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585248.62 EASTING 1815341.87
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0								
			2.5	IA#1S43-0002		0.5	Dry, brown, SANDY SILT (Topsoil, roots/grass at top, FILL)	671.3
		0-ppm	4.5+			1.0	Dry, brown, SANDY SILT (FILL)	670.8
2	62		3.2	IA#1S43-0204			Moist, brown, SANDY FAT CLAY (Fine to coarse sand, trace sub-rounded gravel and unknown white residue, FILL)	
		0-ppm	2			4.0		667.8
4			0	IA#1S43-0406			Very moist, brown, SANDY FAT CLAY (Trace wood and roots, FILL)	
		0-ppm	0.4			6.5		665.3
6			2.1	IA#1S43-0608			Very moist, brown, SANDY LEAN CLAY (Few coarse sand, trace sub-rounded gravel)	
		0-ppm	4.5+			8.0		663.8
8	100		4.5+	IA#1S43-0810			Very moist, brown, SANDY LEAN CLAY	
		0-ppm	4.5+			12.0		659.8
10				IA#1S43-1012			Very moist, brown, SANDY LEAN CLAY (Light gray vertical banding)	
		0-ppm	4.5+					
12	155						Refusal at 12.0 feet. Termination of borehole at 12.0 feet.	

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 673.95 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/24/2013 10:10:00 AM/ 5/24/2013 10:43:00 AM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585294.23 EASTING 1815399.6
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
			0.5			0.6	Dry, dark brown, POORLY GRADED SAND (Topsoil, roots/grass and glass at top) 673.4
		0-ppm		IA#1S44-0002		1.0	Dry, brown, POORLY GRADED SAND 673.0
			1.6				Moist, brown, CLAYEY SAND (Fine sand, trace roots)
2	70		1.1			3.0	Moist, brown with gray mottling, LEAN CLAY WITH SAND 671.0
		0-ppm		IA#1S44-0204			
			2.5			3.8	Moist, brown, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel, vertical light gray banding) 670.2
4			4.5+				
		0-ppm		IA#1S44-0406		5.8	Moist, brown, SILT (Trace coarse sand, vertical light gray banding) 668.2
			4.5+				
6	205		4.5+			6.3	Moist, brown, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel, vertical red-brown banding) 667.7
		0-ppm		IA#1S44-0608			
			4.5+				
8			3.4-ppm				
	133		4.5+				
				IA#1S44-0810			
10						10.0	664.0

Termination of borehole at 10.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 672.48 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/23/2013 8:35:00 AM/ 5/23/2013 10:08:00 AM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585160.01 EASTING 1815348.38
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0								
			3			0.7	Dry, brown, SANDY SILT (Topsoil, grass/roots at top, FILL)	671.8
		9.8-ppm	4.5+	IA#1S45-0002			Dry, brown with brownish orange mottling, LEAN CLAY WITH SAND (FILL)	
2								
	70		4.5+					
		5.6-ppm	3.9	IA#1S45-0204		4.0		668.5
4								
			0				Very moist, brown, POORLY GRADED SAND WITH CLAY (FILL)	
		4.5-ppm	0.5	IA#1S45-0406		5.0	Moist, brown, LEAN CLAY WITH SAND (Wood,FILL)	667.5
6								
			0.9				Very moist, dark brown, LEAN CLAY WITH SAND (Glass at 6.5', FILL)	
		3.6-ppm	0.3	IA#1S45-0608		7.0	Very moist, gray-brown, LEAN CLAY WITH SAND (Trace wood, FILL)	665.5
8								
	62		0					
		16.8-ppm	0.5	IA#1S45-0810		10.0		662.5
10								
							Very moist, brown, LEAN CLAY WITH SAND (Vertical red-brown banding)	
	185	1.3-ppm	4.5+	IA#1S45-1012				
12								
						12.5		660.0

Refusal at 12.5 feet.
Termination of borehole at 12.5 feet.

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 671.79 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/23/2013 10:40:00 AM/ 5/23/2013 11:08:00 AM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585199.74 EASTING 1815348.65
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0								
			0.5	IA#1S46-0002		0.5	Dry, brown, SANDY SILT (Topsoil, grass/roots at top, FILL)	671.3
		2.3-ppm	4.5+			1.9	Dry, brown, LEAN CLAY WITH SAND (Fine to coarse sand, trace roots, FILL)	669.9
2			1.5			2.2	Moist, light brown, POORLY GRADED SAND (Few silt, FILL)	669.6
	68		0	IA#1S46-0204			Very moist, olive and dark brown, "FAT CLAY" (Petroleum Odor, FILL)	
		5.1-ppm						
4			0			3.9	Very moist, dark gray, "FAT CLAY" (Petroleum odor, FILL)	667.9
		42.5-ppm		IA#1S46-0406				
6			0					
		58.8-ppm	0.6	IA#1S46-0608		7.0	Moist, dark brown, FAT CLAY WITH SAND (Trace roots, wood frags and sub-rounded gravel, faint petroleum odor, FILL)	664.8
8	100		0					
		2.2-ppm	2	IA#1S46-0810	8.5	Damp, brown, LEAN CLAY (Few coarse sand, trace sub-rounded gravel, vertical light gray banding)	663.3	
10								
	168	0.7-ppm	4.5+	IA#1S46-1012.5				
12								
						12.5	Refusal at 12.5 feet. Termination of borehole at 12.5 feet.	659.3

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 672.26 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/23/2013 11:22:00 AM/ 5/23/2013 1:54:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585205 EASTING 1815384.54
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0								
2		4.9-ppm	0	IA#1S47-0002		1.0	Dry, brown, SANDY SILT (Topsoil, grass/roots at top. FILL)	671.3
			2.5			1.5	Dry, brown, POORLY GRADED SAND (Trace roots, FILL)	670.8
						2.0	Dry, brown, SANDY SILT (Trace roots, FILL)	670.3
4	72	5.9-ppm	4.5+	IA#1S47-0204		4.0	Moist, brown, LEAN CLAY WITH SAND (Fill)	668.3
			0.5					
6		3-ppm	1.1	IA#1S47-0406		6.0	Moist, brown, FAT CLAY WITH SAND (FILL)	666.3
			0			6.5	Wet, gray, WELL GRADED GRAVEL WITH SAND (Angular gravel, FILL)	665.8
8	94	9.4-ppm	2.3	IA#1S47-0608			Damp, brown, LEAN CLAY (Few coarse sand, trace sub-rounded gravel)	
10		6.2-ppm	4.5+	IA#1S47-0810		10.0		662.3
12	250	0-ppm	4.5+	IA#1S47-1012			Damp, brown, LEAN CLAY (Few coarse sand, trace sub-rounded gravel, vertical red-brown banding)	

Refusal at 12.0 feet.
Termination of borehole at 12.0 feet.

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 674.75 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/24/2013 10:48:00 AM/ 5/24/2013 11:07:00 AM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585291.56 EASTING 1815502.19
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0								
			0.8	IA#1S48-0002		0.6	Dry, brown, SANDY SILT (Topsoil, grass/roots at top, FILL) 674.2	
		0-ppm				1.0	Dry, brown, LEAN CLAY WITH SAND (Trace roots, FILL) 673.8	
			3.5					Moist, brown, SANDY LEAN CLAY (Trace wood frags, FILL)
2								Moist, brown, CLAYEY SAND
	72	0-ppm	0.4	IA#1S48-0204		3.0	671.8	
						3.3	671.5	Moist, brown, CLAY WITH SAND
			4.5+					Moist, brown, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel, vertical red-brown banding)
4						4.0	670.8	
		0-ppm	4.5+	IA#1S48-0406		5.0	669.8	Moist, brown, LEAN CLAY WITH SAND (Light/dark gray and brown/orange mottling, FILL)
			4.5+					Damp, brown, LEAN CLAY (Few coarse sand, trace sub-rounded gravel, vertical red-brown banding)
6	190							
		0.6-ppm	4.5+	IA#1S48-0608 Full Scan				
8					8.0	666.8		
		0-ppm	4.5+	IA#1S48-0810			Moist, brown, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel, olive colored vertical banding)	
10	143				10.0	664.8		

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Termination of borehole at 10.0 feet.

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 670.79 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/23/2013 12:50:00 PM/ 5/23/2013 1:13:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585154.53 EASTING 1815446.02
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0								
			0.5	IA#1S49-0002		0.6	Dry, brown, SANDY SILT (Topsoil, grass/roots at top, FILL) 670.2	
		1.9-ppm				1.0	Dry, brown, LEAN CLAY WITH SAND (Trace roots, FILL) 669.8	
			3.6					Moist, brown, SANDY LEAN CLAY (Trace wood, FILL)
2			0.4	IA#1S49-0204				
	64	2.6-ppm	1.75					
4						4.0		Moist, brown with light and dark gray mottling, LEAN CLAY WITH SAND (FILL) 666.8
		6.1-ppm	1	IA#1S49-0406 Full Scan				
			4.6			5.0		Damp, brown, LEAN CLAY (Few coarse sand, trace sub-rounded gravel, vertical red-brown banding) 665.8
6			4.5+	IA#1S49-0608				
	100	1.9-ppm	4.5+					
8			4.5+	IA#1S49-0810				
		0-ppm	3.75					
10					10.0		Termination of borehole at 10.0 feet. 660.8	

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 673.93 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/24/2013 9:26:00 AM/ 5/24/2013 10:06:00 AM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585189.66 EASTING 1815499.17
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
							Moist, dark brown, POORLY GRADED SAND (Topsoil, grass/roots at top, FILL)
		2.2-ppm		IA#1S50-0002, 0002-B, Full Scan		1.0	672.9
			1.1			1.7	Moist, brown, SANDY LEAN CLAY (FILL) 672.2
2						2.0	Moist, brown, POORLY GRADED SAND 671.9
	73		2.75	IA#1S50-0204			Moist, brown, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel, vertical light gray banding)
		0-ppm					
			3.75				
4							
		2-ppm		IA#1S50-0406		5.0	668.9
			4.2				Moist, brown, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel, vertical red-brown banding)
6	235						
		0-ppm		IA#1S50-0608			
			4.5+				
8							
	160			IA#1S50-0810			
		0-ppm					
			4.5+				
10						10.0	663.9

Termination of borehole at 10.0 feet.

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 673.22 ft HOLE SIZE 3.25 in.
DRILLING METHOD Direct Push/Dual Core Drilling	DATE STARTED / COMPLETED 5/24/2013 7:47:00 AM/ 5/24/2013 8:16:00 AM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585252.21 EASTING 1815133.4
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF DRILLING Dry

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DEPTH (ft)	RECOVERY %	PID, Headspace	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0							
			4	IA#1S51-0002		0.6	Dry, dark brown, SANDY SILT (Topsoil, grass/roots at top) 672.6
		0.9-ppm				1.0	Dry, brown, SILTY SAND (Trace roots) 672.2
						1.2	Moist, brown, POORLY GRADED SAND (Few sand, trace roots) 672.0
			2				Moist, light brown, POORLY GRADED SAND (Few sand, trace roots)
2			1.5	IA#1S51-0204		2.8	Moist, brown, POORLY GRADED SAND (Few sand, trace roots) 670.4
	72	0-ppm				3.0	Moist, brown with red-brown mottling, LEAN CLAY 670.2
			3				Damp, brown, LEAN CLAY (Trace coarse sand, vertical light gray banding)
4			4.5+	IA#1S51-0406			
		0.9-ppm				4.5+	
6			4.5+	IA#1S51-0608			
	155	0-ppm				4.5+	
8			3.6	IA#1S51-0810		8.8	Moist, brown, POORLY GRADED SAND (Few sand, trace roots) 664.4
	167	0-ppm				2.1	Very moist, brown, LEAN CLAY (Trace coarse sand, vertical light gray banding)
10						10.0	Termination of borehole at 10.0 feet. 663.2

*All Soil Classifications based on field observations.

Appendix D

Monitoring Well Construction Logs



CLIENT Whirlpool Corp.
PROJECT NUMBER 60273522
DRILLING CONTRACTOR Boart Longyear
DRILLING METHOD Rotary Sonic
LOGGED BY M. Papp **CHECKED BY** B.M. Bagley
NOTES Geotech data collected, see Appendices for results

PROJECT NAME Former Whirlpool Park
PROJECT LOCATION CR 187, Green Springs Ohio, 43410
GROUND ELEVATION 668.69 ft **HOLE SIZE** 6in w/ 4in core
DATE STARTED / COMPLETED 5/28/2013 3:20:00 PM/ 5/29/2013 10:25:00 AM
NORTHING 586064.75 **EASTING** 1814504.09
GROUND WATER LEVEL: ▽ **TIME OF DRILLING** 34.1ft.
 ▽ **Static level from TOC** 34.10 ft / Elev 634.59 ft, 6/20/2013

DEPTH (ft)	RECOVERY %	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	ELEVATION	WELL DIAGRAM
0								Casing Top Elev: 668.52 (ft) Casing Type: 2 IN PVC
		0.5			1.0	Moist, dark brown, SANDY SILT (Topsoil)	667.7	
2	100	0			3.0	Damp, brown, POORLY GRADED SAND (Sand is fine)	665.7	
4		0.5			4.2	Moist, brown, CLAYEY SAND	664.5	
		4.5+			4.5	Very moist, brown, CLAYEY SAND	664.2	
6						Moist, gray-brown, LEAN CLAY (Few fine to coarse sand, trace small sub-rounded gravel)		
8	100	4.5+						
10					10.0		658.7	
		0.5				Moist, gray, LEAN CLAY (Few fine to coarse sand, trace small sub-rounded gravel)		
12	100	3.75						
14		1.5						
16								
18	100	3.5						
20								
22	100	2.75						
24								
26								
28	100	3.5						
					29.0		639.7	
30					30.0	Moist, gray, SANDY SILT (Few coarse sand, trace sub-rounded gravel)	638.7	

*All Soil Classifications based on field observations.

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CLIENT Whirlpool Corp.

PROJECT NAME Former Whirlpool Park

PROJECT NUMBER 60273522

PROJECT LOCATION CR 187, Green Springs Ohio, 43410

DEPTH (ft)	RECOVERY %	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	WELL DIAGRAM
30							
32	100	4				Moist, gray, LEAN CLAY (Few fine to coarse sand, trace small sub-rounded gravel)	
					33.0		
					33.2	Moist, gray, SILT WITH SAND	
						Moist, gray, LEAN CLAY (Few fine to coarse sand, trace small sub-rounded gravel)	
38	100	4			37.8	Moist, gray, SILT WITH SAND	
40							Grout Mix (Portland Cement/PureGold Gel)
42	100	4.5+					
44							
46		4			45.0	Moist, gray, SILT (Trace coarse sand)	
48	100	4.5+			47.0	Moist, gray, LEAN CLAY (Few fine to coarse sand, trace small sub-rounded gravel)	
50							
52	100						
54							
56		4.5+					
58	100				58.5		
		3.25			58.6	Very moist, gray, POORLY GRADED SAND	
60					60.0	Moist, gray, SILT WITH SAND	
62	100	4.5+				Dry, gray, SANDY SILT WITH GRAVEL (Fine to coarse sand, sub-rounded gravel, trace sub-rounded cobbles)	
64							

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*All Soil Classifications based on field observations.

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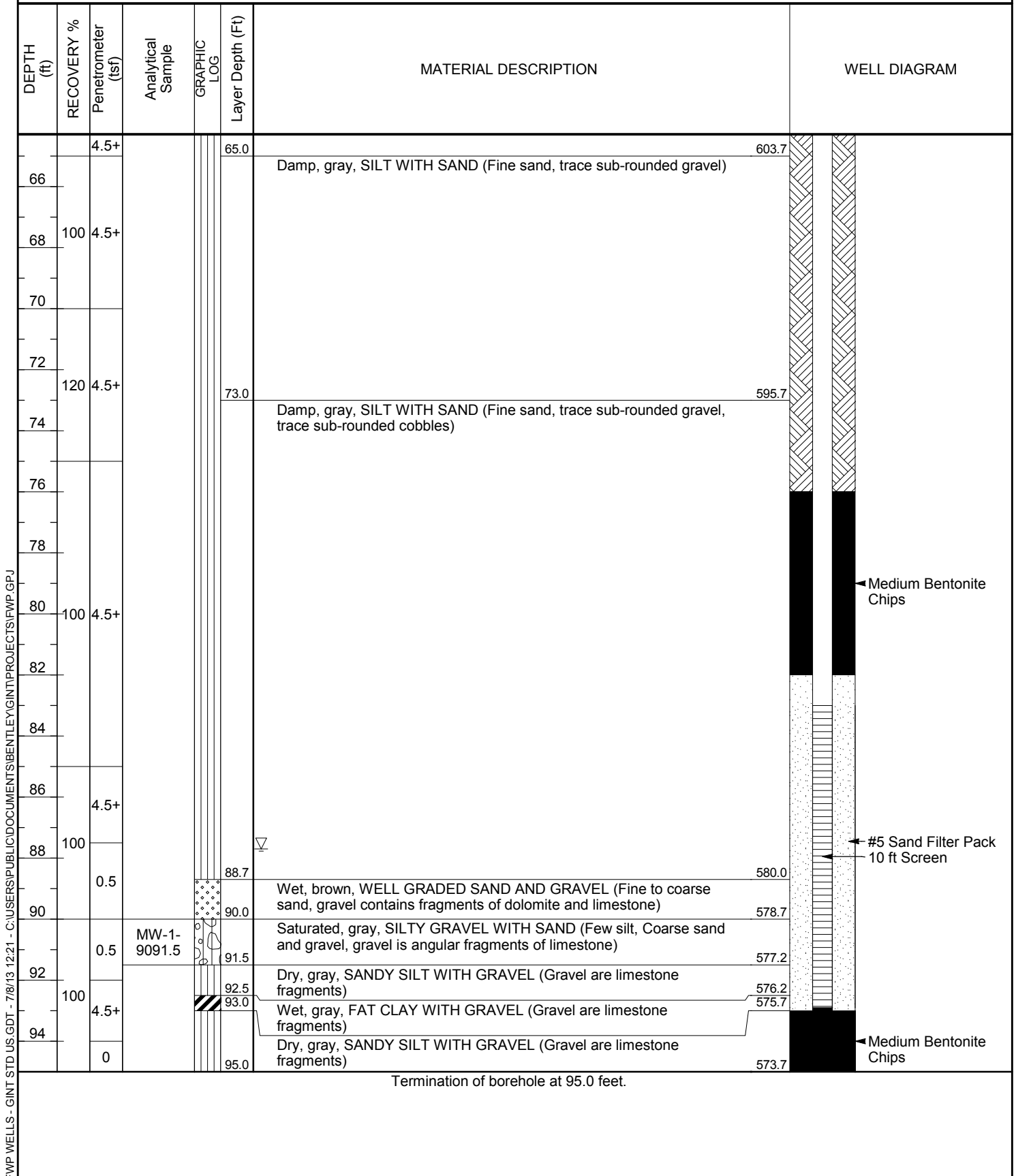


CLIENT Whirlpool Corp.

PROJECT NAME Former Whirlpool Park

PROJECT NUMBER 60273522

PROJECT LOCATION CR 187, Green Springs Ohio, 43410



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*All Soil Classifications based on field observations.



BORING NUMBER MW-2

CLIENT Whirlpool Corp.
PROJECT NUMBER 60273522
DRILLING CONTRACTOR Boart Longyear
DRILLING METHOD Rotary Sonic
LOGGED BY M. Papp **CHECKED BY** B.M. Bagley
NOTES Well was initially Artesian. Geotech data collected.

PROJECT NAME Former Whirlpool Park
PROJECT LOCATION CR 187, Green Springs Ohio, 43410
GROUND ELEVATION 671.91 ft **HOLE SIZE** 6in w/ 4in core
DATE STARTED / COMPLETED 5/30/2013 8:50:00 AM/ 5/30/2013 1:15:00 PM
NORTHING 585807.17 **EASTING** 1814952.09
GROUND WATER LEVEL: ▽ **TIME OF DRILLING** 26.61ft.
 ▽ **Static level from TOC** 26.61 ft / Elev 645.30 ft, 6/20/2013

DEPTH (ft)	RECOVERY %	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	WELL DIAGRAM
0							Casing Top Elev: 671.36 (ft) Casing Type: 2 IN PVC
2	100	0			1.5	Moist, dark brown, SANDY SILT WITH GRAVEL (Fill)	Flush Mount
4		0.5			4.0	Moist, red-brown, POORLY GRADED SAND	
					4.5	Moist, red-brown, POORLY GRADED SAND WITH SILT	
					5.3	Moist, red-brown, POORLY GRADED SAND	
6						Moist, gray-brown, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel)	
8	110	4.5+					
10					10.0	Moist, gray, LEAN CLAY WITH SAND (Some silt, little fine to coarse sand)	
12	100	4.5+	MW-2-1015				
14		4.25					
16					15.0	Moist, gray, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel)	
18	120	3.75					
20							
22	116	4.5					
24							
26					25.0	Dry, gray, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel)	
28	100	4.5+					Grout Mix (Portland Cement/PureGold Gel)
30							

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.

PROJECT NAME Former Whirlpool Park

PROJECT NUMBER 60273522

PROJECT LOCATION CR 187, Green Springs Ohio, 43410

DEPTH (ft)	RECOVERY %	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	WELL DIAGRAM
30							
32	120	4.5+				Dry, gray, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel) (continued)	
34		4.5+			34.1		
					34.2	Very moist, gray, POORLY GRADED SAND WITH CLAY	637.8
					35.0	Moist, gray, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel)	637.7
						Dry, gray, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel)	636.9
36		4.5+					
38	100						
40		3.75					
42							
44							
46		4.5+					
48	100						
50		1.5					
52		4.5					
54		4.5+			53.0	Moist, gray, SILT (Slow dilatency)	618.9
					53.2	Damp, gray, SILT (Slow dilatency, trace cobbles)	618.7
56	0.5	4.5+	MW-2-55.556		55.5	Wet, gray, POORLY GRADED SAND (Sand is angular to sub-rounded, Trace silt, Trace fine gravel)	616.4
					56.0	Dry, gray, WELL GRADED SAND WITH CLAY (Trace cobbles)	615.9
58	100	4.5+					
60					60.0	Dry, gray, CLAY (Few fine to coarse sand, trace sub-rounded gravel and cobbles)	611.9
62		4.5+					
64							

#5 Sand Filter Pack
5 ft Screen

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*All Soil Classifications based on field observations.

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CLIENT Whirlpool Corp.

PROJECT NAME Former Whirlpool Park

PROJECT NUMBER 60273522

PROJECT LOCATION CR 187, Green Springs Ohio, 43410

DEPTH (ft)	RECOVERY %	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	WELL DIAGRAM
66		4.5+				Dry, gray, CLAY (Few fine to coarse sand, trace sub-rounded gravel and cobbles) (continued)	
68	100	4.5+					
70							
72	100	4.5+					
73.0					598.9		
74						Dry, gray, SANDY SILT WITH GRAVEL (Sand is fine to coarse, gravel is sub-rounded, trace cobbles)	
75.0					596.9		
76							
78	106	4.5+				Dry, gray, SANDY SILT WITH GRAVEL (Sand is fine to coarse, gravel is sub-rounded, trace cobbles, large angular limestone fragments prevelant)	
80.0					591.9		

Termination of borehole at 80.0 feet.

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 669.25 ft HOLE SIZE 6in w/ 4in core
DRILLING METHOD Rotary Sonic	DATE STARTED / COMPLETED 5/30/2013 3:36:00 PM/ 5/31/2013 9:30:00 AM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585568.81 EASTING 1814730.86
NOTES Geotech data collected, see Appendices for results	GROUND WATER LEVEL: ▽ TIME OF DRILLING 29.96ft. ▽ Static level from TOC 29.96 ft / Elev 639.29 ft, 6/20/2013

DEPTH (ft)	RECOVERY %	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	WELL DIAGRAM
0							Casing Top Elev: 669.05 (ft) Casing Type: 2 IN PVC
0		0			1.0	Moist, brown, POORLY GRADED SAND WITH CLAY AND GRAVEL	Flush Mount
2	100	4.5+			5.0	Dry, brown, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel)	
4					5.0	Dry, brown, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel, vertical red-brown banding)	664.3
6		3			10.0	Damp, gray, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel)	
8	140	4.5+			10.0	Damp, gray, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel)	659.3
10					15.0	Damp, gray, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel)	
12	103	3.25			15.0	Damp, gray, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel)	654.3
14					20.0	Damp, gray, LEAN CLAY (Few fine sand, trace sub-rounded gravel)	
16					20.0	Damp, gray, LEAN CLAY (Few fine sand, trace sub-rounded gravel)	649.3
18	128	4			24.0	Dry, gray, SILT	
20					24.5	Dry, gray, SILT WITH SAND (Sand is coarse, trace sub-rounded gravel)	644.8
22	100	4.5+			26.0	Dry, gray, SILT (Few fine sand)	
24					26.0	Dry, gray, SILT (Few fine sand)	643.3
26							
28	126	4.5+					Grout Mix (Portland Cement/PureGold Gel)
30							

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*All Soil Classifications based on field observations.

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CLIENT Whirlpool Corp.

PROJECT NAME Former Whirlpool Park

PROJECT NUMBER 60273522

PROJECT LOCATION CR 187, Green Springs Ohio, 43410

DEPTH (ft)	RECOVERY %	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	WELL DIAGRAM
30							
32	104	4.5+				Dry, gray, SILT (Few fine sand) (continued)	
34					35.0		
36						Dry, gray, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel, trace cobbles)	
38	120	4.5+					
40							
42		4.5+					
44	106				44.0		
46		2.2				Moist, gray, SANDY SILT	
48					45.0		
50						Dry, gray, SANDY SILT	
52	106	4.5+			48.0		
54						Dry, gray, GRAVELLY SILT WITH SAND	
56							
58					55.0		
60	107	4.5+				Damp, gray, GRAVELLY SILT WITH SAND (Trace cobbles, sand is fine to coarse, gravel is sub-rounded)	
62					58.0		
64						Dry, gray, SILT WITH SAND	
					60.0		
						Wet, gray, SANDY SILT (Sand is fine, rapid dilatency)	
					60.9		
					60.6		
					60.3		
					60.5		

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MW-3-6063

Medium Bentonite Chips

#5 Sand Filter Pack 5 ft Screen

*All Soil Classifications based on field observations.

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CLIENT Whirlpool Corp.

PROJECT NAME Former Whirlpool Park

PROJECT NUMBER 60273522

PROJECT LOCATION CR 187, Green Springs Ohio, 43410

DEPTH (ft)	RECOVERY %	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	WELL DIAGRAM
66		4.5+				Dry, gray, GRAVELLY SILT WITH SAND (Sand is fine to coarse, trace large limestone sub-rounded fragments, trace limestone cobbles) <i>(continued)</i>	<p>Medium Bentonite Chips</p>
68	110	4.5+					
		4					
70				70.0			

Termination of borehole at 70.0 feet.

599.3

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp. **PROJECT NAME** Former Whirlpool Park
PROJECT NUMBER 60273522 **PROJECT LOCATION** CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear **GROUND ELEVATION** 668.07 ft **HOLE SIZE** 6in w/ 4in core
DRILLING METHOD Rotary Sonic **DATE STARTED / COMPLETED** 6/4/2013 8:13:00 AM/ 6/4/2013 2:15:00 PM
LOGGED BY M. Papp **CHECKED BY** B.M. Bagley **NORTHING** 585313.3 **EASTING** 1814914.72
NOTES Geotech data collected, see Appendices for results **GROUND WATER LEVEL:** ∇ **TIME OF DRILLING** 28.68ft.
 ∇ **Static level from TOC** 28.68 ft / Elev 639.39 ft, 6/20/2013

DEPTH (ft)	RECOVERY %	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	Elevation (ft)	WELL DIAGRAM
0								Casing Top Elev: 667.95 (ft) Casing Type: 2 IN PVC
		1.5			0.5	Moist, brown, SANDY SILT (Grass/roots at top, topsoil)	667.6	
					1.0	Moist, brown, LEAN CLAY (Trace roots)	667.1	
2		3				Damp, brown, SILT		
4	110	4.5+			3.5	Moist, gray, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel)	664.6	
6		4.5+						
8	130	2.75						
10		3			10.0	Moist, gray, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel)	658.1	
12	110	2						
14		4.5+			15.0	Moist, gray, LEAN CLAY (Some silt, few fine coarse sand)	653.1	
16		3						
18	124	4	MW-4-1520					
20		4.5+			20.0	Moist, gray, LEAN CLAY (Some silt, few fine coarse sand, trace sub-rounded small gravel to cobbles)	648.1	
22		3.25						
24	110	4.5+			23.0	Dry, gray, SANDY SILT WITH GRAVEL (Sand is fine to coarse, gravel is sub-rounded)	645.1	
26		3			25.0	Moist, gray, SANDY SILT WITH GRAVEL (Sand is fine to coarse in in-situ pockets, gravel is sub-rounded)	643.1	
28	103	4.5+			27.0	Dry, gray, SANDY SILT WITH GRAVEL (Sand is fine to coarse, gravel is sub-rounded)	641.1	
30								Grout Mix (Portland Cement/PureGold Gel)

*All Soil Classifications based on field observations.

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CLIENT Whirlpool Corp.

PROJECT NAME Former Whirlpool Park

PROJECT NUMBER 60273522

PROJECT LOCATION CR 187, Green Springs Ohio, 43410

DEPTH (ft)	RECOVERY %	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	WELL DIAGRAM
30							
32	118	4.5+				Dry, gray, SANDY SILT WITH GRAVEL (Sand is fine to coarse, gravel is sub-rounded) (continued)	
34							
36							
38	120	4.5+					
40							
42	88	4.5+					
44							
46					45.0	Damp, gray, GRAVELY SILT WITH SAND (Sand is fine to coarse, gravel is sub-rounded)	623.1
48	110	4.5+					
50					50.0	Moist, gray, LEAN CLAY (Few coarse sand, trace sub-rounded gravel)	618.1
52					52.0		616.1
54	103	4.5+				Damp, gray, GRAVELY SILT WITH SAND (Sand is fine to coarse, gravel is sub-rounded)	
56							
58	112	4.5+			57.0	Moist, gray, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel)	611.1
60					60.0	Moist, gray, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel, small pocket of moist fine sand)	608.1
62	100	4.5+					
64	100	4.5+					
64	3		MW-4-6364.5		63.0	Wet, gray, SANDY SILT (Rapid dilatency, few clay, little fine to coarse angular limestone gravel)	605.1

Medium Bentonite Chips

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*All Soil Classifications based on field observations.

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CLIENT Whirlpool Corp.

PROJECT NAME Former Whirlpool Park

PROJECT NUMBER 60273522

PROJECT LOCATION CR 187, Green Springs Ohio, 43410

DEPTH (ft)	RECOVERY %	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	WELL DIAGRAM
66		4.5+ 4.5+			64.5	Damp, gray, GRAVELY SILT WITH SAND (Limestone angular fragments, trace flat/angular cobbles)	
68	100	4.5+		68.0	Wet, gray, WELL GRADED GRAVEL WITH SILT		
		1		68.4	Damp, gray, GRAVELY SILT WITH SAND (Limestone angular fragments, trace flat/angular cobbles)		
70		4.5+		70.0			

Termination of borehole at 70.0 feet.

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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.
PROJECT NUMBER 60273522
DRILLING CONTRACTOR Boart Longyear
DRILLING METHOD Rotary Sonic
LOGGED BY M. Papp **CHECKED BY** B.M. Bagley
NOTES Well was initially Artesian. Geotech data collected.

PROJECT NAME Former Whirlpool Park
PROJECT LOCATION CR 187, Green Springs Ohio, 43410
GROUND ELEVATION 673.04 ft **HOLE SIZE** 6in w/ 4in core
DATE STARTED / COMPLETED 6/3/2013 11:57:00 AM/ 6/3/2013 1:00:00 PM
NORTHING 585164.86 **EASTING** 1815190.45
GROUND WATER LEVEL: ▽ **TIME OF DRILLING** 16.62ft.
 ▽ **Static level from TOC** 16.62 ft / Elev 656.42 ft, 6/20/2013

DEPTH (ft)	RECOVERY %	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	WELL DIAGRAM
0							Casing Top Elev: 672.54 (ft) Casing Type: 2 IN PVC
		0			1.0	Moist, brown, SANDY SILT (Grass/roots on top, topsoil)	
		3			1.5	Dry, brown, POORLY GRADED SAND WITH SILT	Flush Mount
2						Damp, brown, LEAN CLAY (Few fine to coarse sand, vertical light gray banding)	
	100						
4		4.5+					
					5.0	Damp, brown, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel, vertical red-brown banding)	
6		4.5					
8		120					
		4.5+					
10							
		3			12.0	Damp, gray, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel, vertical olive banding)	
12							
	108						
14		3.75					
		4.5+			15.0	Damp, gray, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel, medium plasticity clay)	
16							
18		113					
		3.25					
20							
		4.25					
22							
	105				23.0	Dry, gray, SANDY SILT WITH GRAVEL (sand is fine to coarse, gravel is sub-rounded)	Grout Mix (Portland Cement/PureGold Gel)
24		4.5+					
26		4.5+					
28		110					
		4.5					
30					30.0		
							643.0

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*All Soil Classifications based on field observations.

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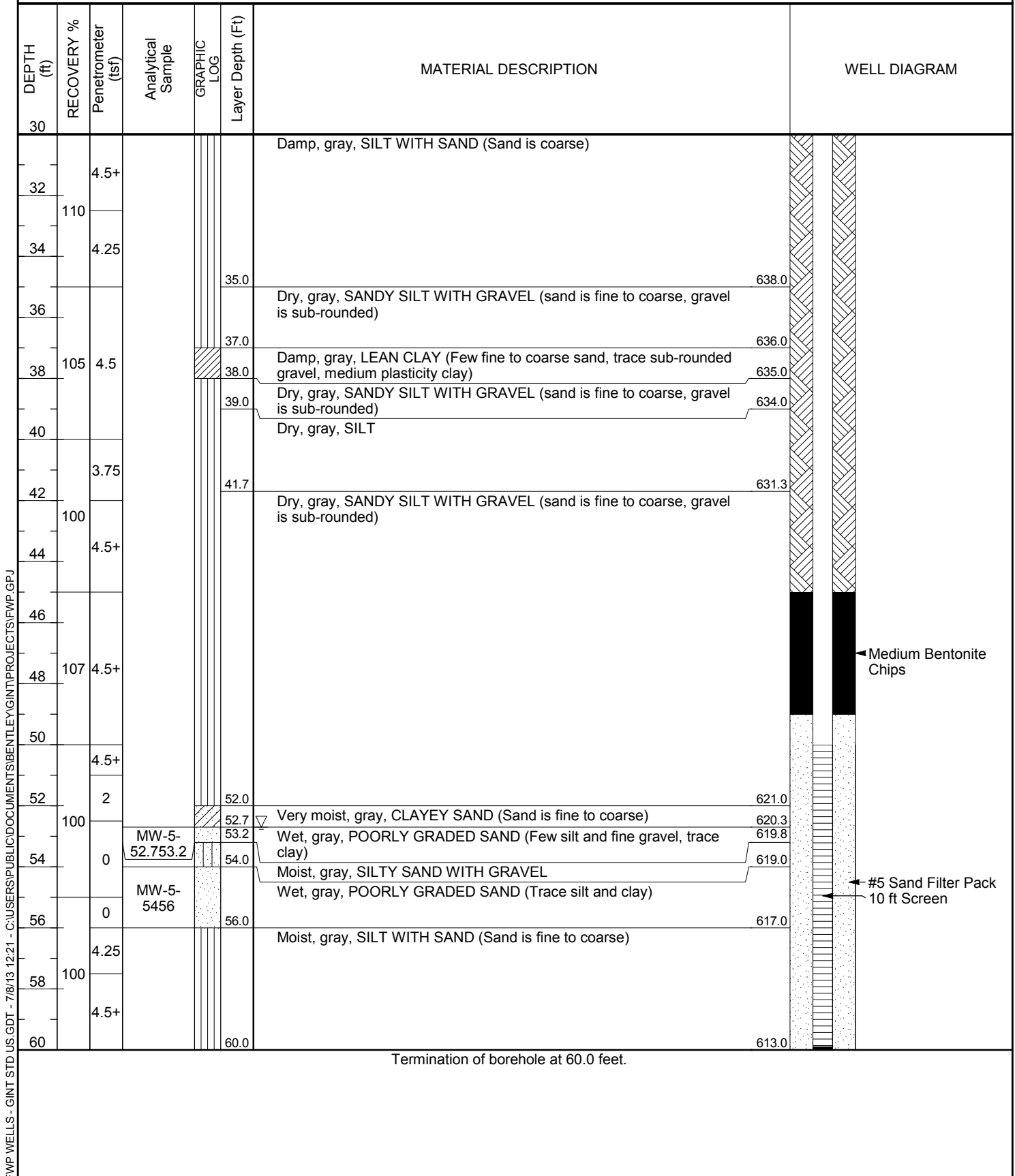


CLIENT Whirlpool Corp.

PROJECT NAME Former Whirlpool Park

PROJECT NUMBER 60273522

PROJECT LOCATION CR 187, Green Springs Ohio, 43410



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*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
DRILLING CONTRACTOR Boart Longyear	GROUND ELEVATION 654.12 ft HOLE SIZE 6in w/ 4in core
DRILLING METHOD Rotary Sonic	DATE STARTED / COMPLETED 5/29/2013 2:30:00 PM/ 5/29/2013 4:25:00 PM
LOGGED BY M. Papp CHECKED BY B.M. Bagley	NORTHING 585952.51 EASTING 1814334.54
NOTES Geotech data collected, see Appendices for results	GROUND WATER LEVEL: ▽ TIME OF DRILLING 10.87ft. ▽ Static level from TOC 10.87 ft / Elev 643.25 ft, 6/20/2013

DEPTH (ft)	RECOVERY %	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	WELL DIAGRAM
0							Casing Top Elev: 657.27 (ft) Casing Type: 2 IN PVC
2	100	3			2.0	Damp, brown, SILT WITH SAND	3.1 ft Stickup Casing
4					5.0	Moist, brown, LEAN CLAY	
6		1			7.5	Moist, dark brown, LEAN CLAY (Few coarse sand, vertical red-brown banding)	Medium Bentonite Chips
8	100	3.75			8.0	Moist, brown, LEAN CLAY WITH SAND (Trace roots/wood)	
		2.75			8.5	Very moist, brown, POORLY GRADED SAND WITH CLAY (Sand is fine)	
10		1.25			10.0	Moist, brown, LEAN CLAY (Few fine to coarse sand, trace sub-rounded gravel and roots)	
12	100	3			11.5	Moist, gray, SILT (Few coarse sand, cohesive and low plasticity)	
14		4.5+			15.0	Dry, gray, SANDY SILT WITH GRAVEL (Fine to coarse sand, sub-rounded gravel)	#5 Sand Filter Pack 5 ft Screen
16					18.0	Moist, gray, SILT (Trace coarse sand, medium dilatency)	
18	100	4.5+			23.0	Dry, gray, SANDY SILT WITH GRAVEL (Fine to coarse sand, sub-rounded gravel)	
20					28.5	Moist, gray, LEAN CLAY	Medium Bentonite Chips
22	100	4.5+			28.5	Moist, gray, LEAN CLAY	
24		1.5			28.5	Moist, gray, LEAN CLAY	
26					28.5	Moist, gray, LEAN CLAY	
28	100	4.5+			28.5	Moist, gray, LEAN CLAY	
30					30.0	Dry, gray, SILT (Trace coarse sand)	

*All Soil Classifications based on field observations.

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CLIENT Whirlpool Corp.

PROJECT NAME Former Whirlpool Park

PROJECT NUMBER 60273522

PROJECT LOCATION CR 187, Green Springs Ohio, 43410

DEPTH (ft)	RECOVERY %	Penetrometer (tsf)	Analytical Sample	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	WELL DIAGRAM
30							
32	120	4.5+	MW-6-32.533		32.5 33.0 33.5	Damp, gray, SILT	
						Moist, gray, SILT(Moderate dilatency)	
						Wet, gray, POORLY GRADED SAND WITH GRAVEL (Sand is fine to medium grained, gravel is coarse, few fines)	
34			MW-6-3333.5		35.0	Dry, gray, SANDY SILT WITH GRAVEL (Fine to coarse sand, sub-rounded gravel)	

Termination of borehole at 35.0 feet.

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*All Soil Classifications based on field observations.

Appendix E

Geotechnical Laboratory Report

Former Whirlpool Park
 Summary of Geotechnical Analysis

Analytical Parameters										
Analytical Methods		D4318 / D422*								
Field Sample ID	Analytical Depth (ft bgs)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	LL	PL	PI	Material Description	USCS Classification
MW-1	90 - 91.5	39.6	36.4	19.7	4.3	NA	NA	NA	Gray Silty Gravel with Sand	GM
MW-2	10 - 15	4.6	22.0	43	30.4	15	27	12	Gray Lean Clay with Sand	CL
MW-2	55 - 55.5	9.8	71.8	11.9	6.5	NA	NA	NA	Gray Sand	SP
MW-3	60 - 63	0.0	45.6	44.9	9.5	NA	NA	NA	Gray Sandy Silt	ML
MW-4	15 - 20	0.7	9.8	51.9	37.6	18	29	11	Gray Lean Clay	CL
MW-4	63 - 64.5	19.3	22.9	48.2	9.6	15	16	1	Gray Sandy Silt with Sand	ML
MW-5	52.7 - 53.2	10.3	71.0	11.4	7.3	NA	NA	NA	Gray sand	SP
MW-5	54 - 56	0.0	90.0	6.2	3.8	NA	NA	NA	Gray Sand	SP
MW-6	32.5 - 33	0.0	0.7	90.0	9.3	NA	NA	NA	Gray Silt	ML
MW-6	33 - 33.5	35.5	49.6	10.2	5.2	NA	NA	NA	Gray Gravelly Sand	SP
S19A	0 - 2	0.1	20.6	50.1	29.2	37	59	22	Gray Elastic Silt with Sand	MH
S19A	2 - 4	0.7	20.8	55.8	22.7	34	54	20	Gray Elastic Silt with Sand	MH
S19A	4 - 4.6	1.1	21.4	40.8	36.7	21	38	17	Gray Lean Clay with Sand	CL
S19A	4.6 - 5.3	1.0	20.9	43.0	35.1	20	34	14	Gray Lean Clay with Sand	CL

Notes:

ft bgs = feet below ground surface

* Terracon Geotechnical Laboratories.

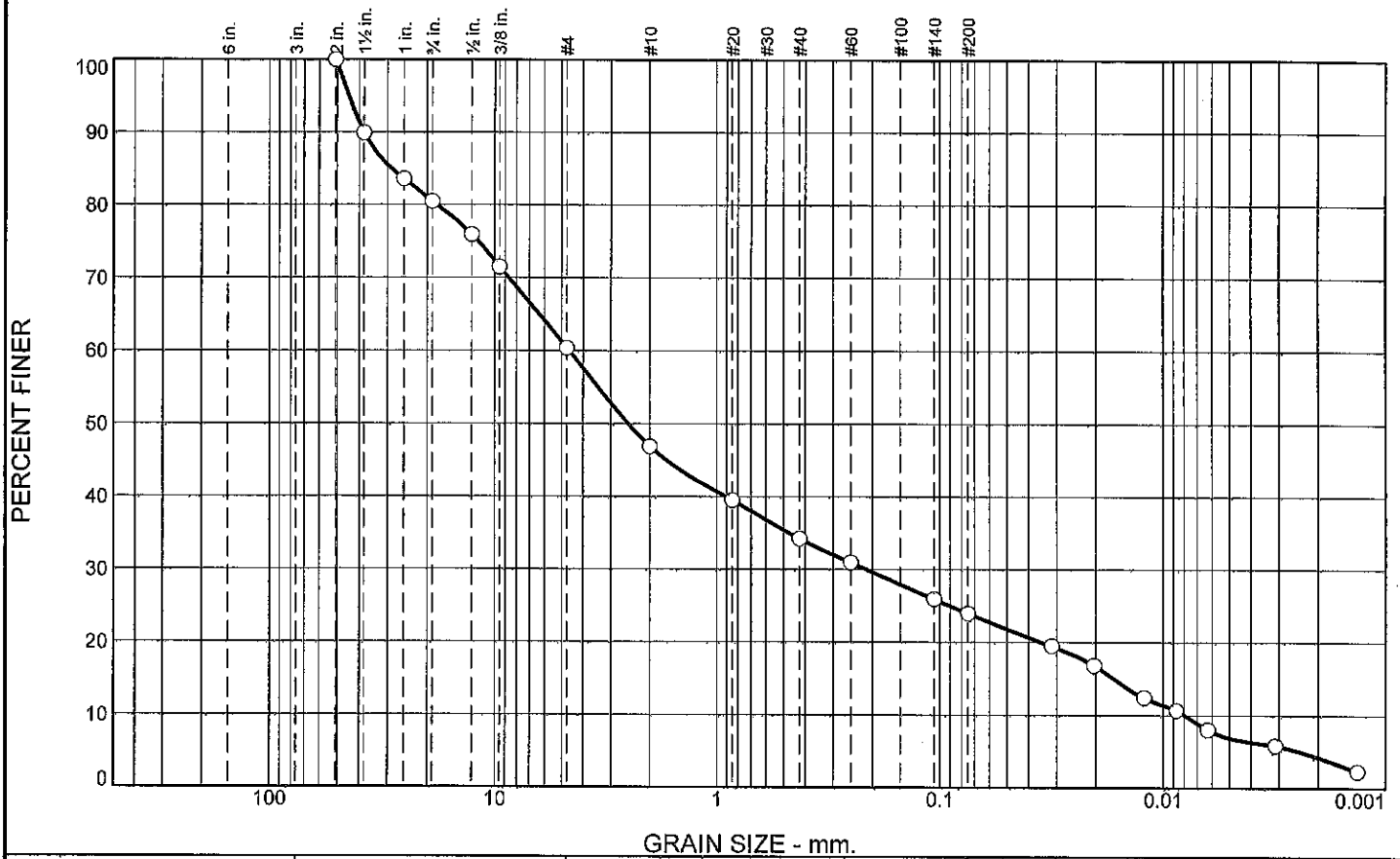
LL =

PL =

PI =

NA = Not Applicable

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	19.5	20.1	13.5	12.7	10.2	19.7	4.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2	100.0		
1.5	89.9		
1	83.6		
.75	80.5		
.5	75.9		
.375	71.5		
#4	60.4		
#10	46.9		
#20	39.5		
#40	34.2		
#60	30.9		
#140	25.9		
#200	24.0		

Material Description

GRAY SILTY GRAVLE WITH SAND

PL=	Atterberg Limits	PI=
	LL=	
	Coefficients	
D ₉₀ = 38.2731	D ₈₅ = 28.9687	D ₆₀ = 4.6346
D ₅₀ = 2.5092	D ₃₀ = 0.2128	D ₁₅ = 0.0166
D ₁₀ = 0.0080	C _u = 581.01	C _c = 1.22
Classification		
USCS= GM	AASHTO=	
Remarks		

* (no specification provided)

Source of Sample: 3814
Sample Number: MW-1

Depth: 90-91.5'

Date: 7-2-13

Terracon, Inc.

Cincinnati, Ohio

Client: AECOM

Project: WHIRLPOOL - GREEN SPRING, OH - SWP
AECOM #60299534 PO #47330ACM

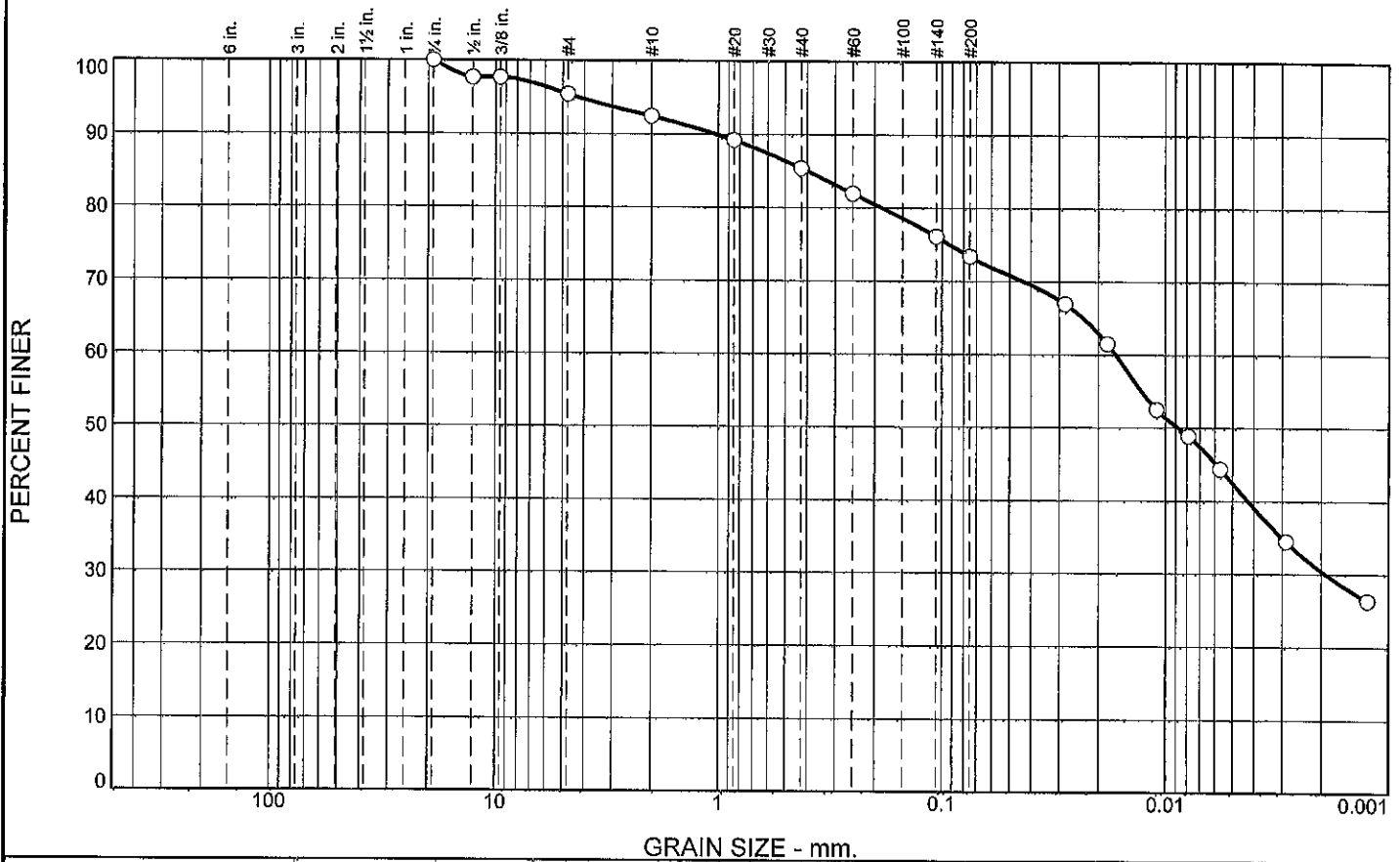
Project No: N1135133

Exhibit 3814

Tested By: DR

Checked By: GS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.6	2.9	7.1	12.0	43.0	30.4

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.5	97.7		
.375	97.7		
#4	95.4		
#10	92.5		
#20	89.2		
#40	85.4		
#60	81.9		
#140	76.1		
#200	73.4		

Material Description

GRAY LEAN CLAY WITH SAND

Atterberg Limits

PL= 15 LL= 27 PI= 12

Coefficients

D₉₀= 1.0137 D₈₅= 0.3990 D₆₀= 0.0168
D₅₀= 0.0088 D₃₀= 0.0019 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= CL AASHTO= A-6(6)

Remarks

* (no specification provided)

Source of Sample: 3815
Sample Number: MW-2

Depth: 10-15'

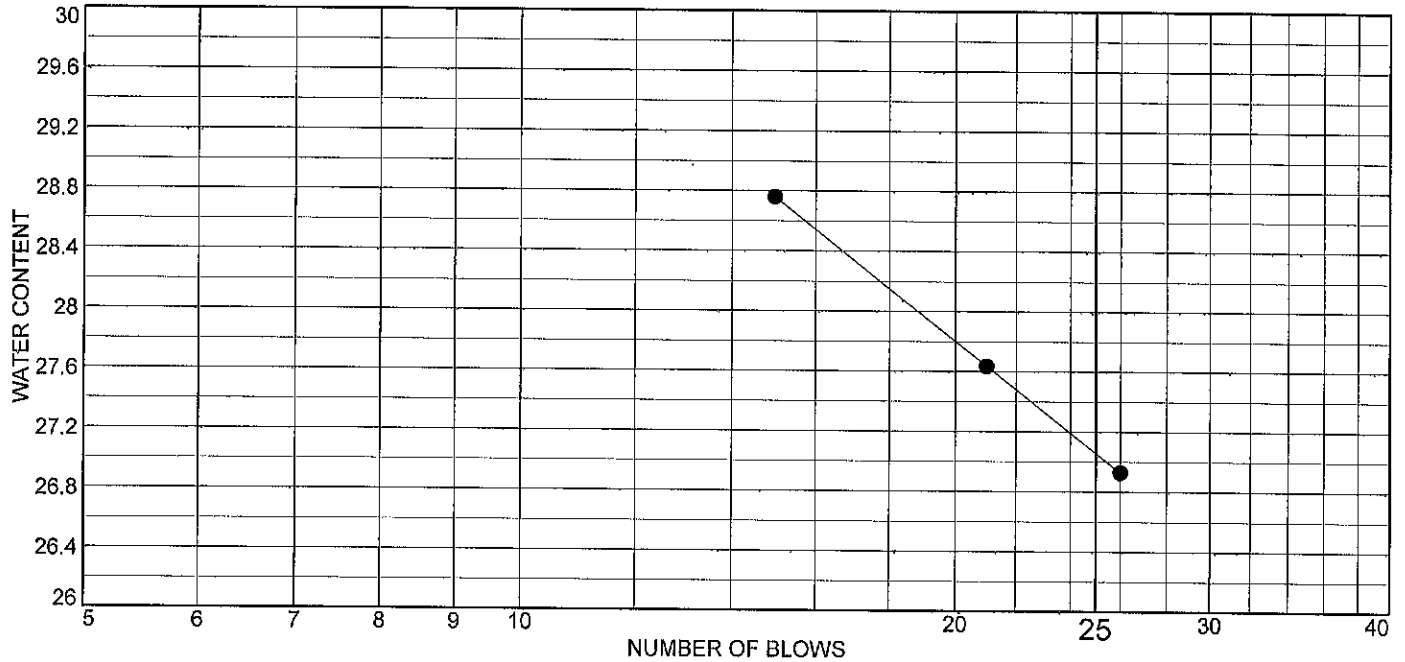
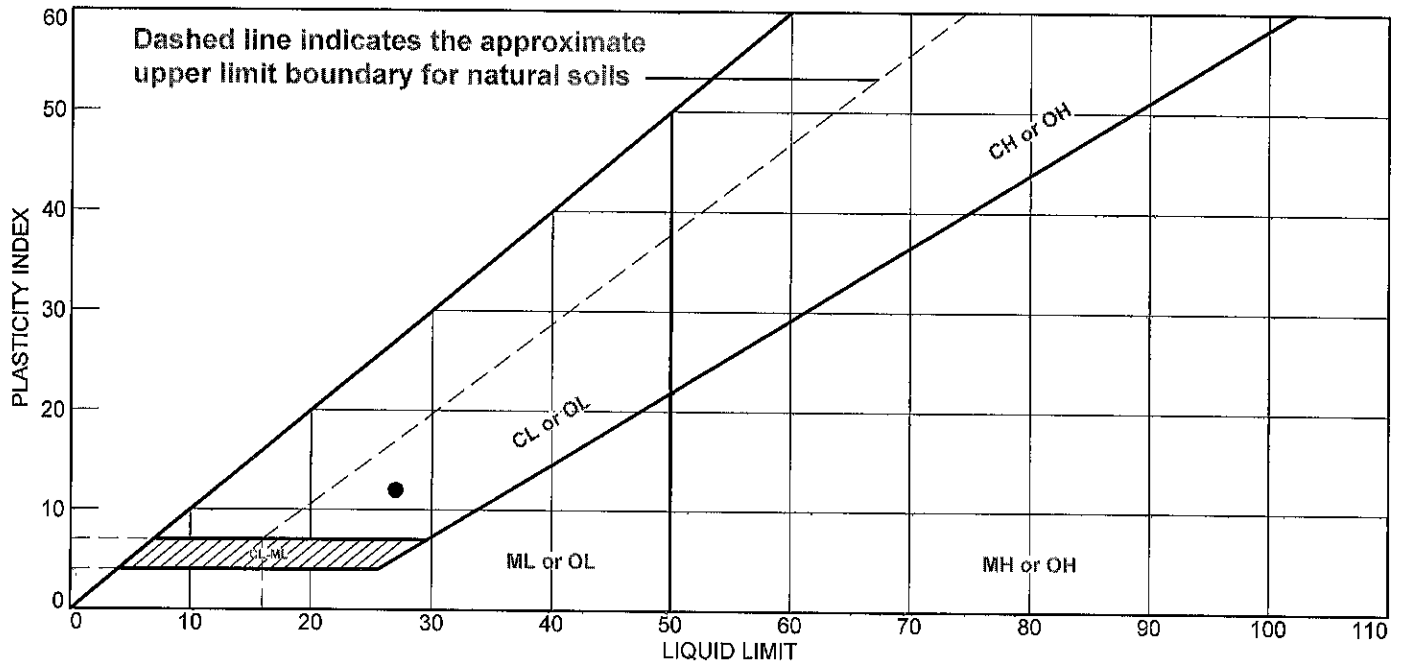
Date: 7-2-13

<h2 style="margin: 0;">Terracon, Inc.</h2> <p style="margin: 0;">Cincinnati, Ohio</p>	<p>Client: AECOM</p> <p>Project: WHIRLPOOL - GREEN SPRING, OH - SWP AECOM #60299534 PO #47330ACM</p> <p>Project No: N1135133 Exhibit 3815</p>
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Tested By: DR

Checked By: GS

LIQUID AND PLASTIC LIMITS TEST REPORT



MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
GRAY LEAN CLAY WITH SAND	27	15	12	85.4	73.4	CL

Project No. N1135133 **Client:** AECOM
Project: WHIRLPOOL - GREEN SPRING, OH - SWP
 AECOM #60299534 PO #47330ACM
Source of Sample: 3815 **Depth:** 10-15'
Sample Number: MW-2

Terracon, Inc.

Cincinnati, Ohio

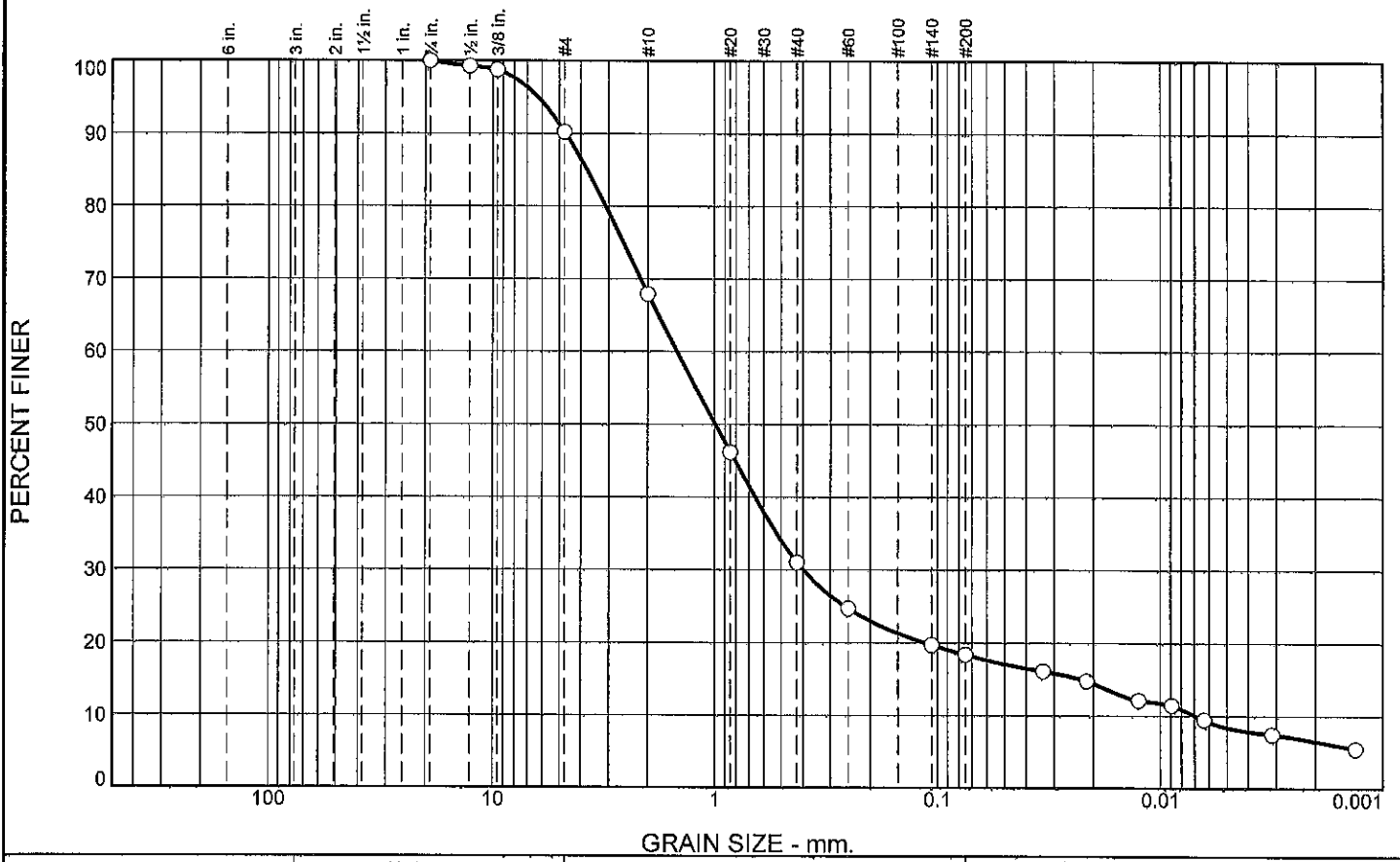
Remarks:

Exhibit 3815

Tested By: ME

Checked By: GS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	9.8	22.3	36.9	12.6	11.9	6.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.5	99.3		
.375	98.7		
#4	90.2		
#10	67.9		
#20	46.2		
#40	31.0		
#60	24.7		
#140	19.8		
#200	18.4		

Material Description

GRAY SAND

Atterberg Limits

PL= LL= PI=

Coefficients

D₉₀= 4.6944 D₈₅= 3.7661 D₆₀= 1.4816
D₅₀= 0.9933 D₃₀= 0.3985 D₁₅= 0.0225
D₁₀= 0.0069 C_u= 214.46 C_c= 15.52

Classification

USCS= SP AASHTO=

Remarks

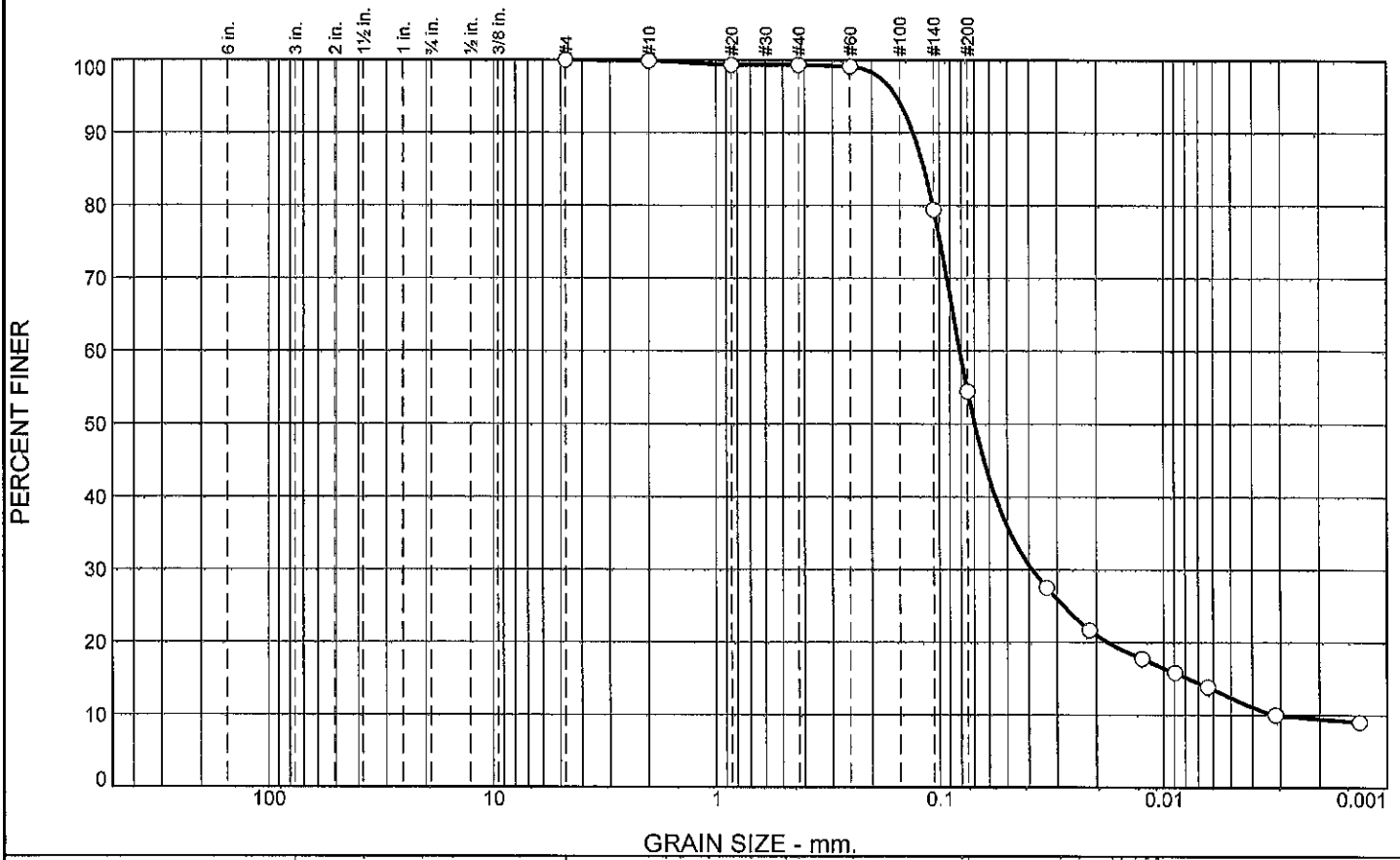
* (no specification provided)

Source of Sample: 3816 Depth: 55-55.5' Date: 7-2-13
Sample Number: MW-2

<h2 style="margin: 0;">Terracon, Inc.</h2> <p style="margin: 0;">Cincinnati, Ohio</p>	<p>Client: AECOM</p> <p>Project: WHIRLPOOL - GREEN SPRING, OH - SWP AECOM #60299534 PO #47330ACM</p> <p>Project No: N1135133 Exhibit 3816</p>
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Tested By: DR Checked By: GS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.1	0.6	44.9	44.9	9.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	99.9		
#20	99.3		
#40	99.3		
#60	99.1		
#140	79.4		
#200	54.4		

Material Description

GRAY SANDY SILT

Atterberg Limits

PL= NP LL= NP PI= NP

Coefficients

D₉₀= 0.1311 D₈₅= 0.1170 D₆₀= 0.0812
D₅₀= 0.0699 D₃₀= 0.0387 D₁₅= 0.0077
D₁₀= 0.0032 C_u= 25.59 C_c= 5.82

Classification

USCS= ML AASHTO= A-4(0)

Remarks

* (no specification provided)

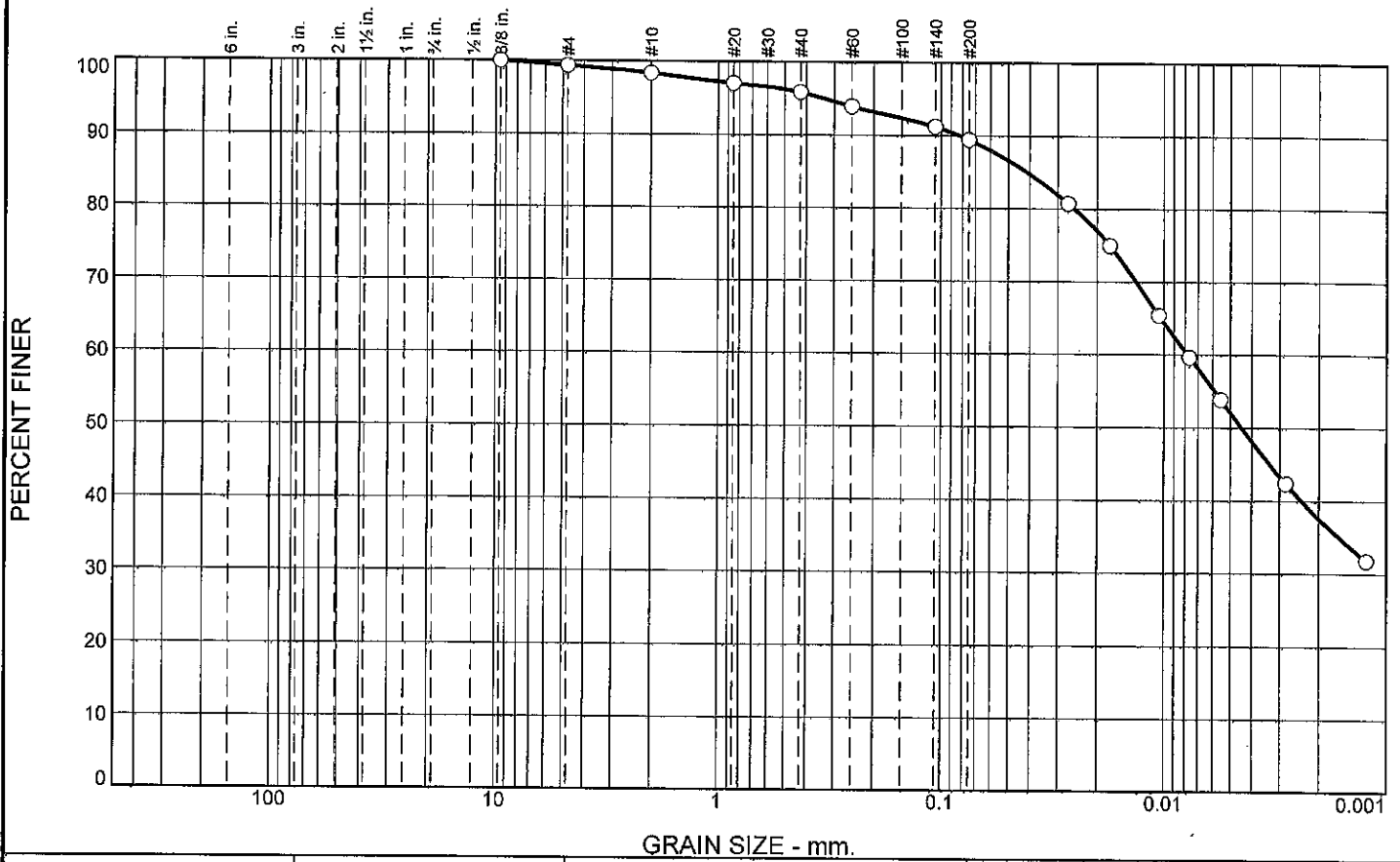
Source of Sample: 3817 Depth: 60-63'
Sample Number: MW-3

Date: 7-2-13

<h2 style="margin: 0;">Terracon, Inc.</h2> <p style="margin: 0;">Cincinnati, Ohio</p>	<p>Client: AECOM</p> <p>Project: WHIRLPOOL - GREEN SPRING, OH - SWP AECOM #60299534 PO #47330ACM</p> <p>Project No: N1135133 Exhibit 3817</p>
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Tested By: ME Checked By: GP

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.7	0.9	2.5	6.4	51.9	37.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100.0		
#4	99.3		
#10	98.4		
#20	97.0		
#40	95.9		
#60	93.9		
#140	91.2		
#200	89.5		

Material Description

GRAY LEAN CLAY

Atterberg Limits
 PL= 18 LL= 29 PI= 11

Coefficients
 D₉₀= 0.0821 D₈₅= 0.0411 D₆₀= 0.0078
 D₅₀= 0.0045 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= CL AASHTO= A-6(9)

Remarks

* (no specification provided)

Source of Sample: 3818
 Sample Number: MW-4

Depth: 15-20'

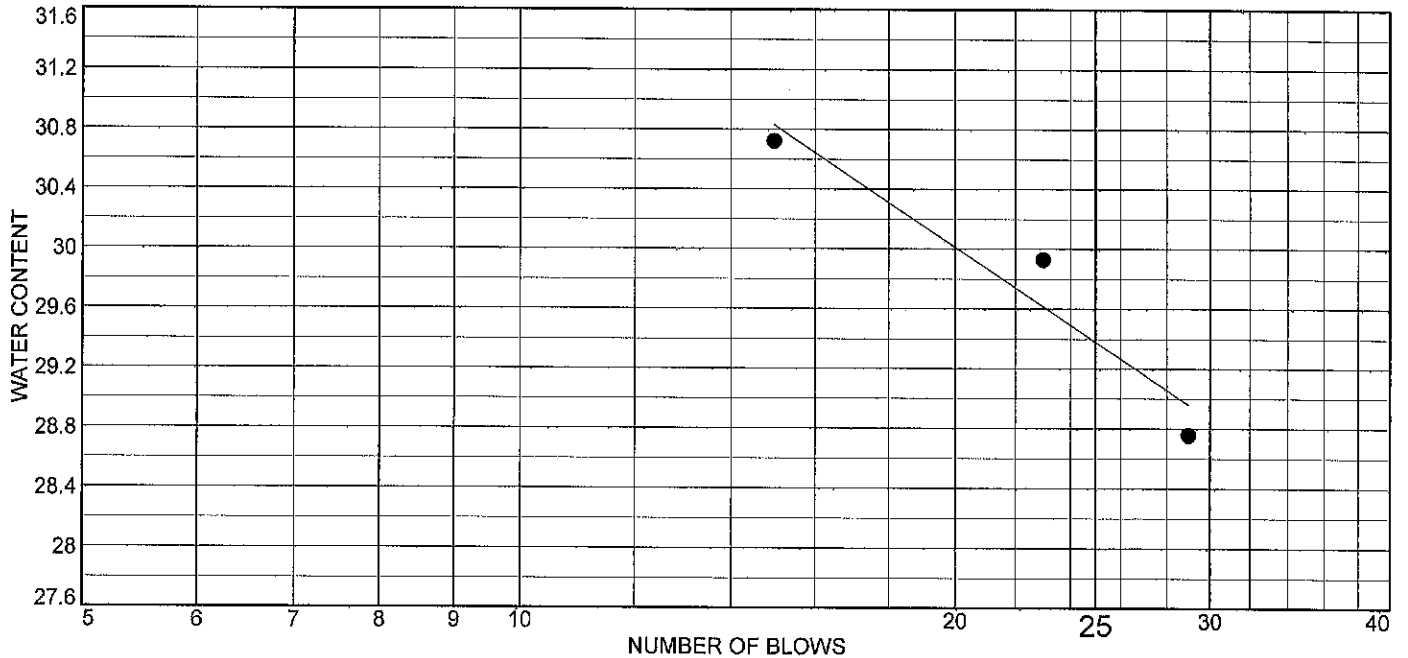
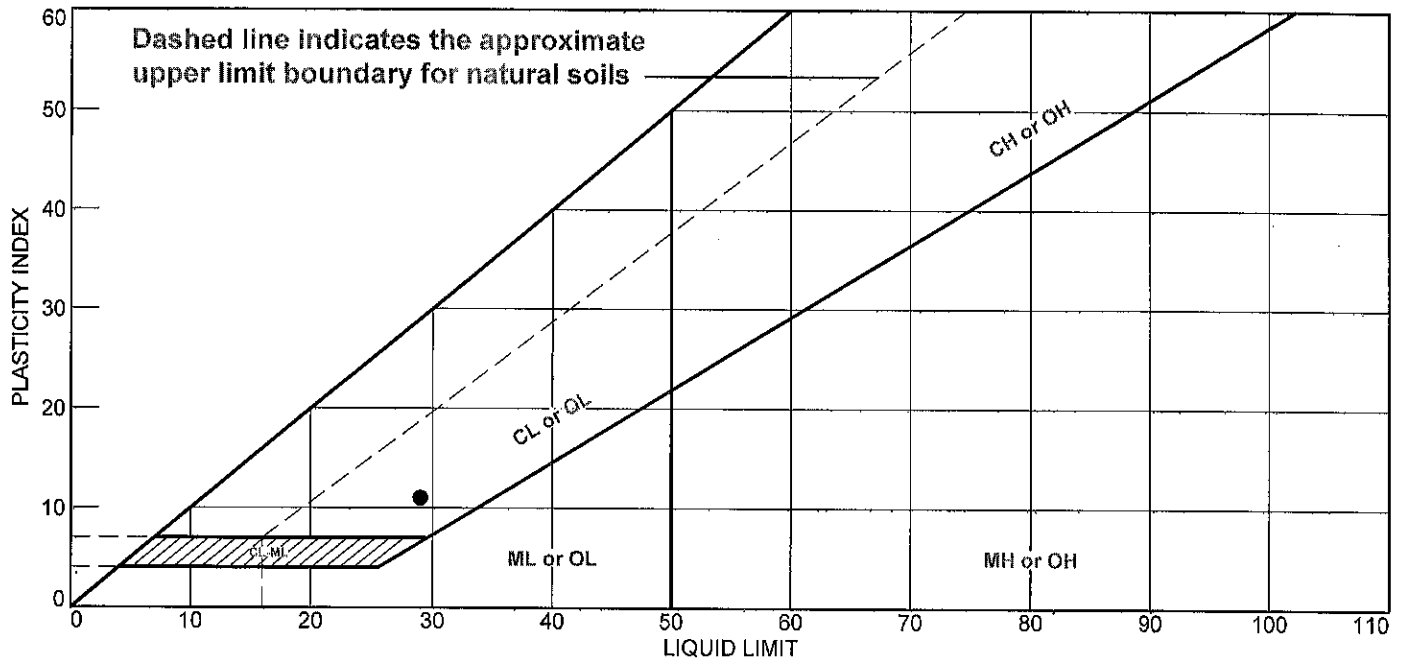
Date: 7-2-13

<h2 style="margin: 0;">Terracon, Inc.</h2> <p style="margin: 0;">Cincinnati, Ohio</p>	<p>Client: AECOM</p> <p>Project: WHIRLPOOL - GREEN SPRING, OH - SWP AECOM #60299534 PO #47330ACM</p> <p>Project No: N1135133 Exhibit 3818</p>
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Tested By: DR

Checked By: GS

LIQUID AND PLASTIC LIMITS TEST REPORT



MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
● GRAY LEAN CLAY	29	18	11	95.9	89.5	CL

Project No. N1135133 **Client:** AECOM
Project: WHIRLPOOL - GREEN SPRING, OH - SWP
AECOM #60299534 **PO #**47330ACM
Source of Sample: 3818 **Depth:** 15-20'
Sample Number: MW-4

Remarks:

Exhibit 3818

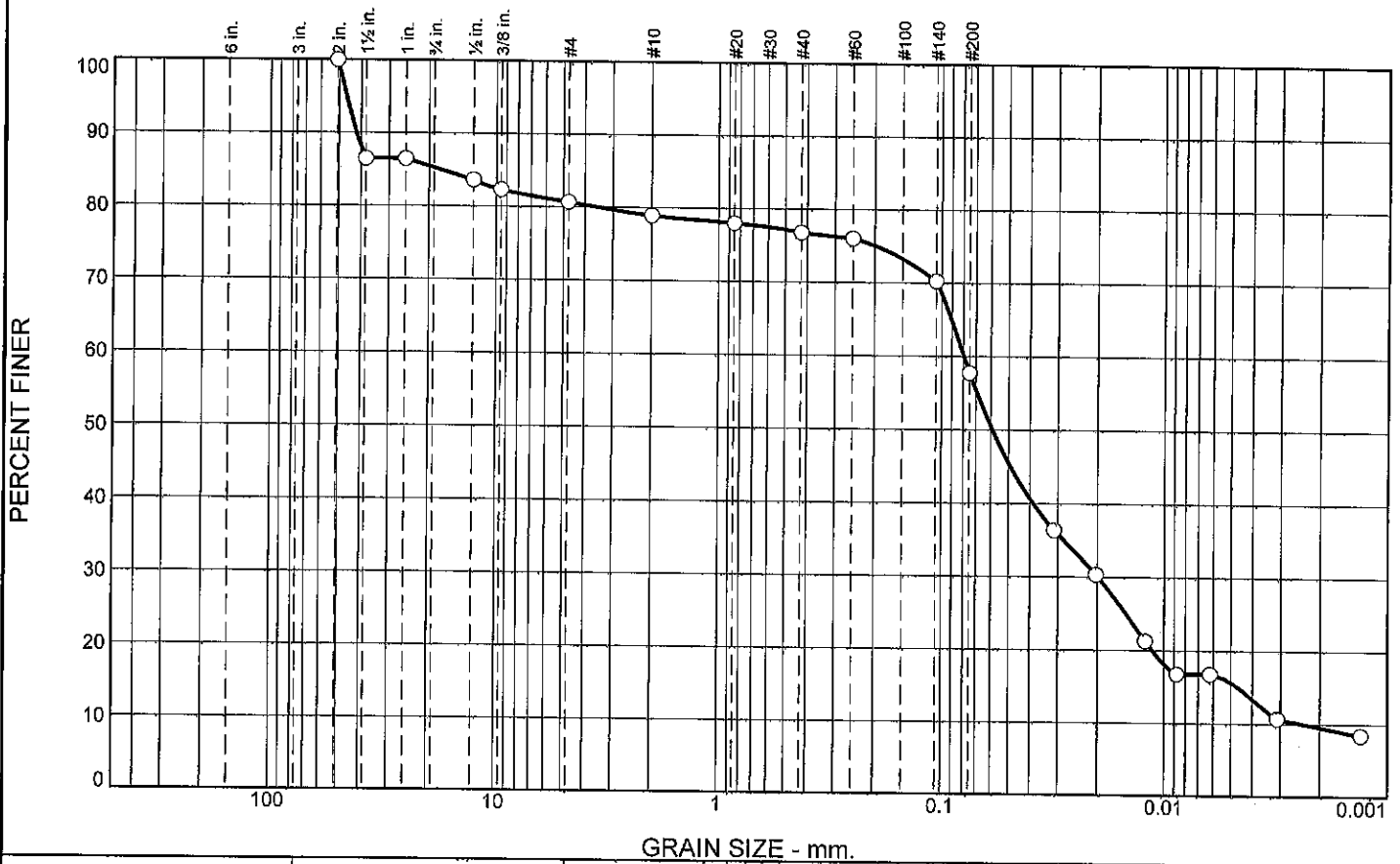
Terracon, Inc.

Cincinnati, Ohio

Tested By: DR

Checked By: GS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	14.7	4.6	1.8	2.1	19.0	48.2	9.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2	100.0		
1.5	86.4		
1	86.4		
.5	83.6		
.375	82.3		
#4	80.7		
#10	78.9		
#20	78.0		
#40	76.8		
#60	76.0		
#140	70.2		
#200	57.8		

Material Description
GRAY SANDY SILT WITH SAND

PL= 15 **Atterberg Limits** LL= 16 PI= 1

Coefficients

D₉₀= 42.0990 D₈₅= 17.6986 D₆₀= 0.0796
 D₅₀= 0.0593 D₃₀= 0.0198 D₁₅= 0.0046
 D₁₀= 0.0024 C_u= 33.65 C_c= 2.09

Classification
USCS= ML AASHTO= A-4(0)

Remarks

* (no specification provided)

Source of Sample: 3819
Sample Number: MR-4

Depth: 63-64.5'

Date: 7-2-13

Terracon, Inc.

Cincinnati, Ohio

Client: AECOM

Project: WHIRLPOOL - GREEN SPRING, OH - SWP
AECOM #60299534 PO #47330ACM

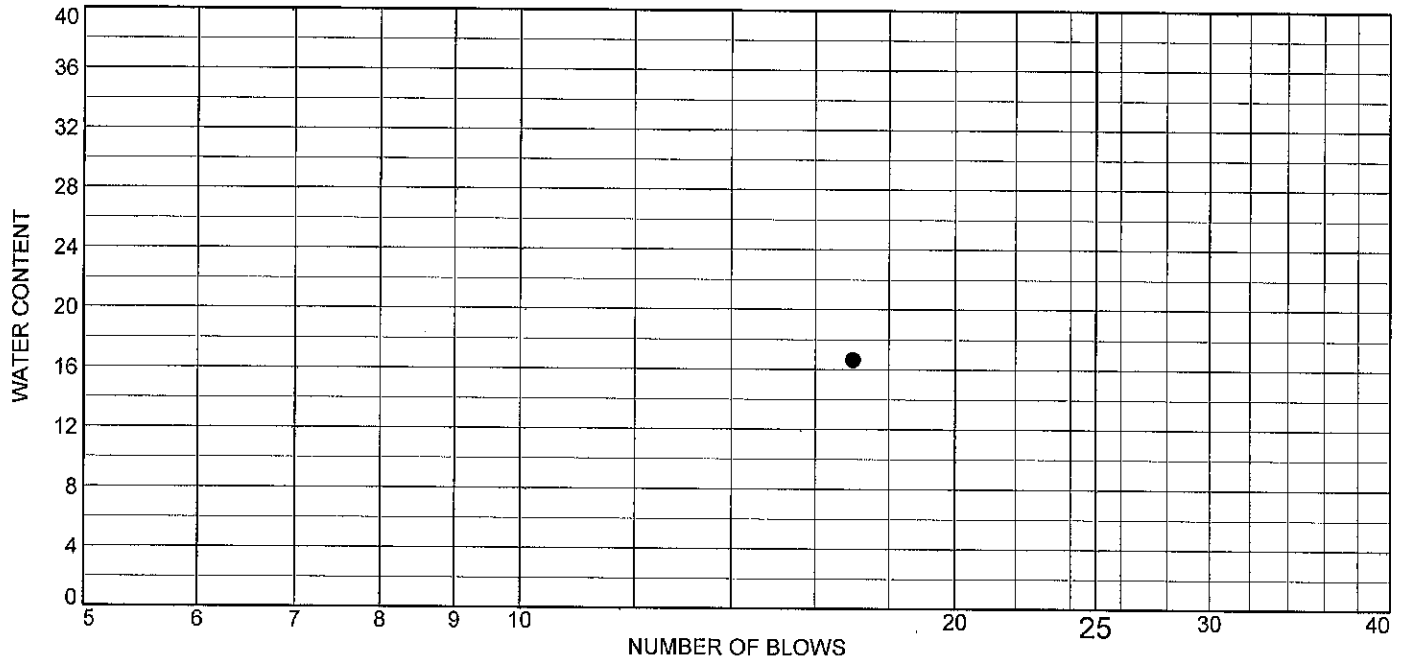
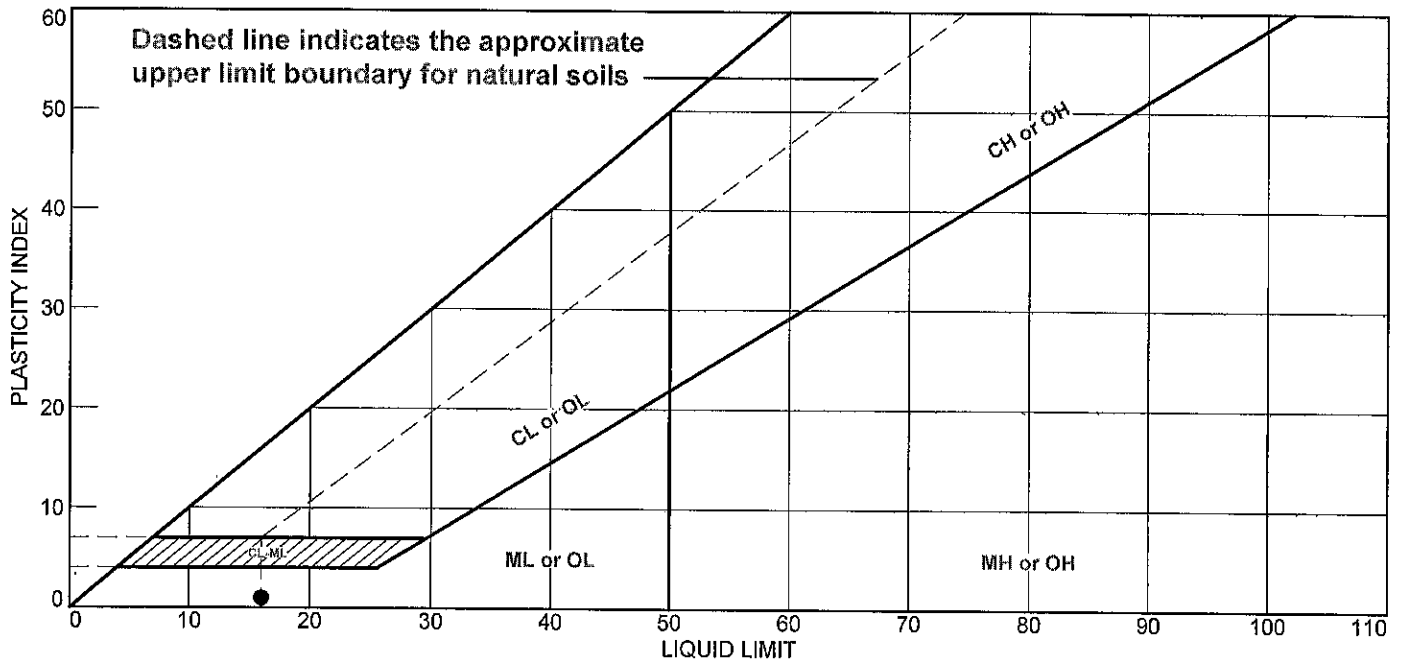
Project No: N1135133

Exhibit 3819

Tested By: ME

Checked By: GS

LIQUID AND PLASTIC LIMITS TEST REPORT



MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
● GRAY SANDY SILT WITH SAND	16	15	1	76.8	57.8	ML

Project No. N1135133 **Client:** AECOM
Project: WHIRLPOOL - GREEN SPRING, OH - SWP
AECOM #60299534 **PO #**47330ACM
Source of Sample: 3819 **Depth:** 63-64.5'
Sample Number: MR-4

Terracon, Inc.

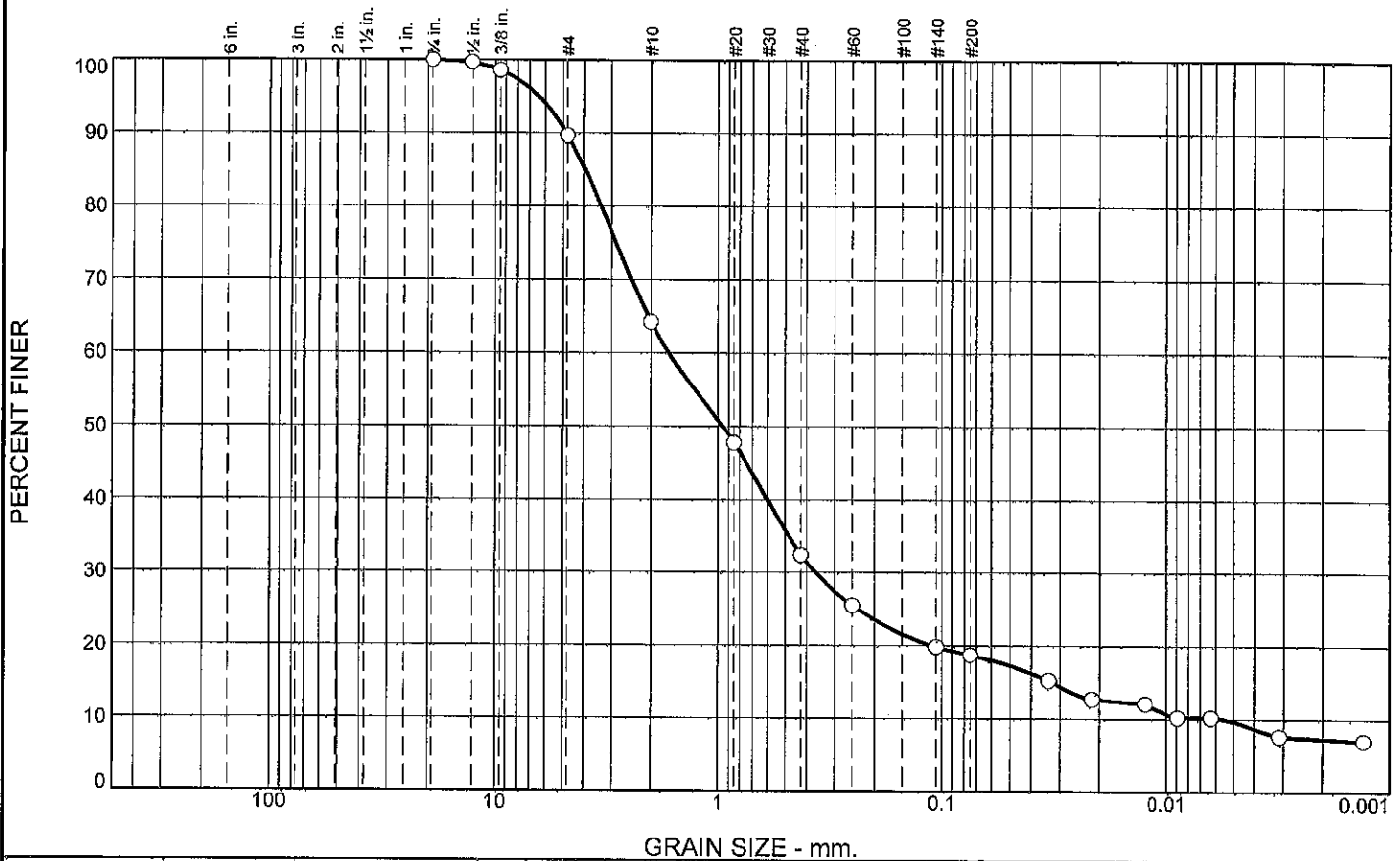
Cincinnati, Ohio

Remarks:

Exhibit 3819

Tested By: ME _____ **Checked By:** GS _____

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	10.3	25.5	31.8	13.7	11.4	7.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.5	99.7		
.375	98.6		
#4	89.7		
#10	64.2		
#20	47.7		
#40	32.4		
#60	25.5		
#140	19.8		
#200	18.7		

Material Description

GRAY SAND

PL=	Atterberg Limits LL=	PI=
Coefficients		
D ₉₀ = 4.8204	D ₈₅ = 3.9716	D ₆₀ = 1.6648
D ₅₀ = 0.9547	D ₃₀ = 0.3673	D ₁₅ = 0.0327
D ₁₀ = 0.0055	C _u = 302.17	C _c = 14.71
Classification		
USCS= SP	AASHTO=	
Remarks		

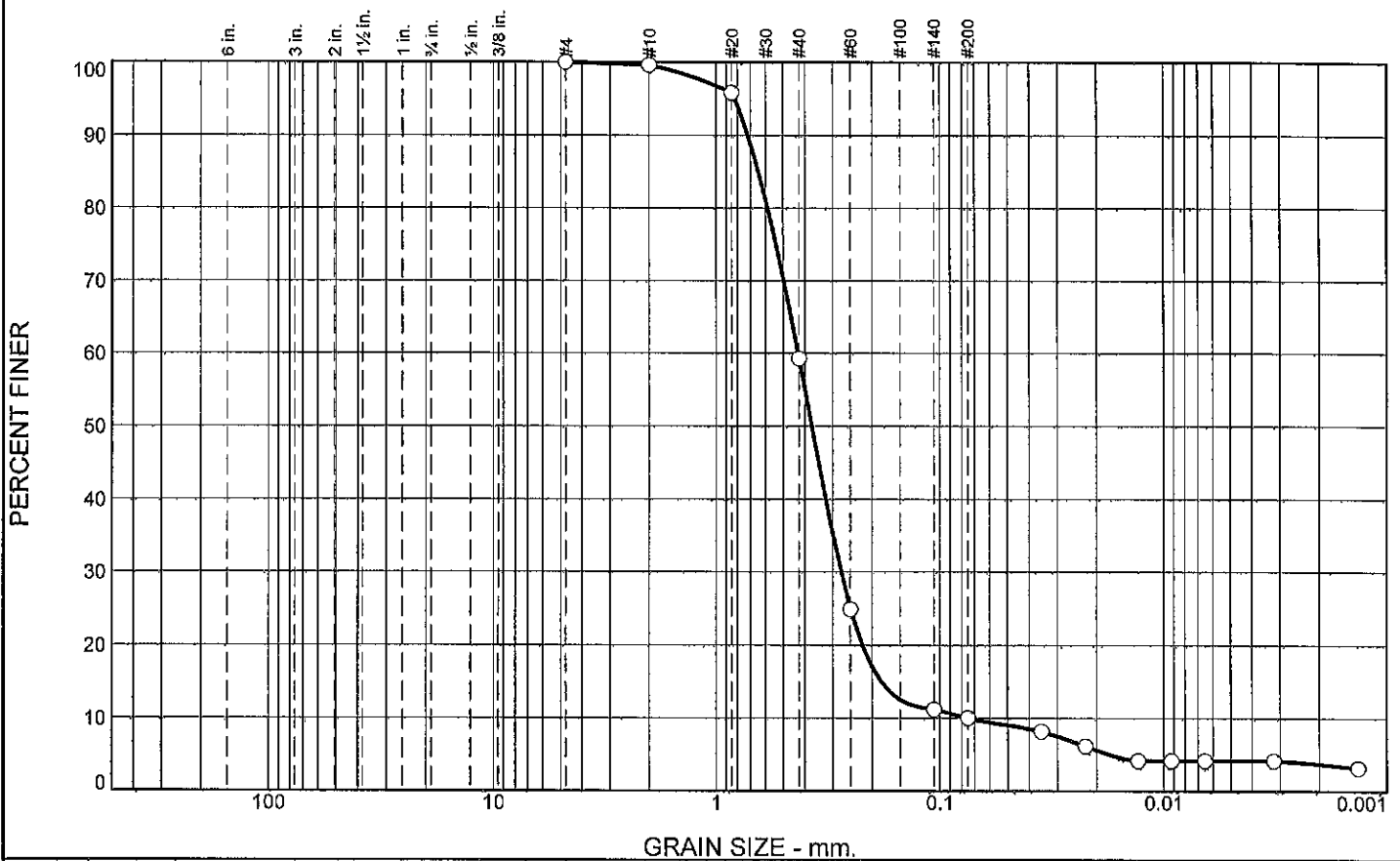
* (no specification provided)

Source of Sample: 3820 Depth: 52.7-53.2' Date: 7-2-13
 Sample Number: MW-5

<h2 style="margin: 0;">Terracon, Inc.</h2> <p style="margin: 5px 0 0 0;">Cincinnati, Ohio</p>	<p>Client: AECOM</p> <p>Project: WHIRLPOOL - GREEN SPRING, OH - SWP AECOM #60299534 PO #47330ACM</p> <p>Project No: N1135133 Exhibit 3820</p>
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Tested By: DR Checked By: GS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.4	40.3	49.3	6.2	3.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	99.6		
#20	95.8		
#40	59.3		
#60	24.9		
#140	11.2		
#200	10.0		

* (no specification provided)

Material Description

GRAY SAND

Atterberg Limits

PL= LL= PI=

Coefficients

D₉₀= 0.7212 D₈₅= 0.6471 D₆₀= 0.4295
D₅₀= 0.3729 D₃₀= 0.2756 D₁₅= 0.1827
D₁₀= 0.0748 C_u= 5.75 C_c= 2.37

Classification

USCS= SP AASHTO=

Remarks

Source of Sample: 3821 Depth: 54-56'
Sample Number: MW-5

Date: 7-2-13

Terracon, Inc.

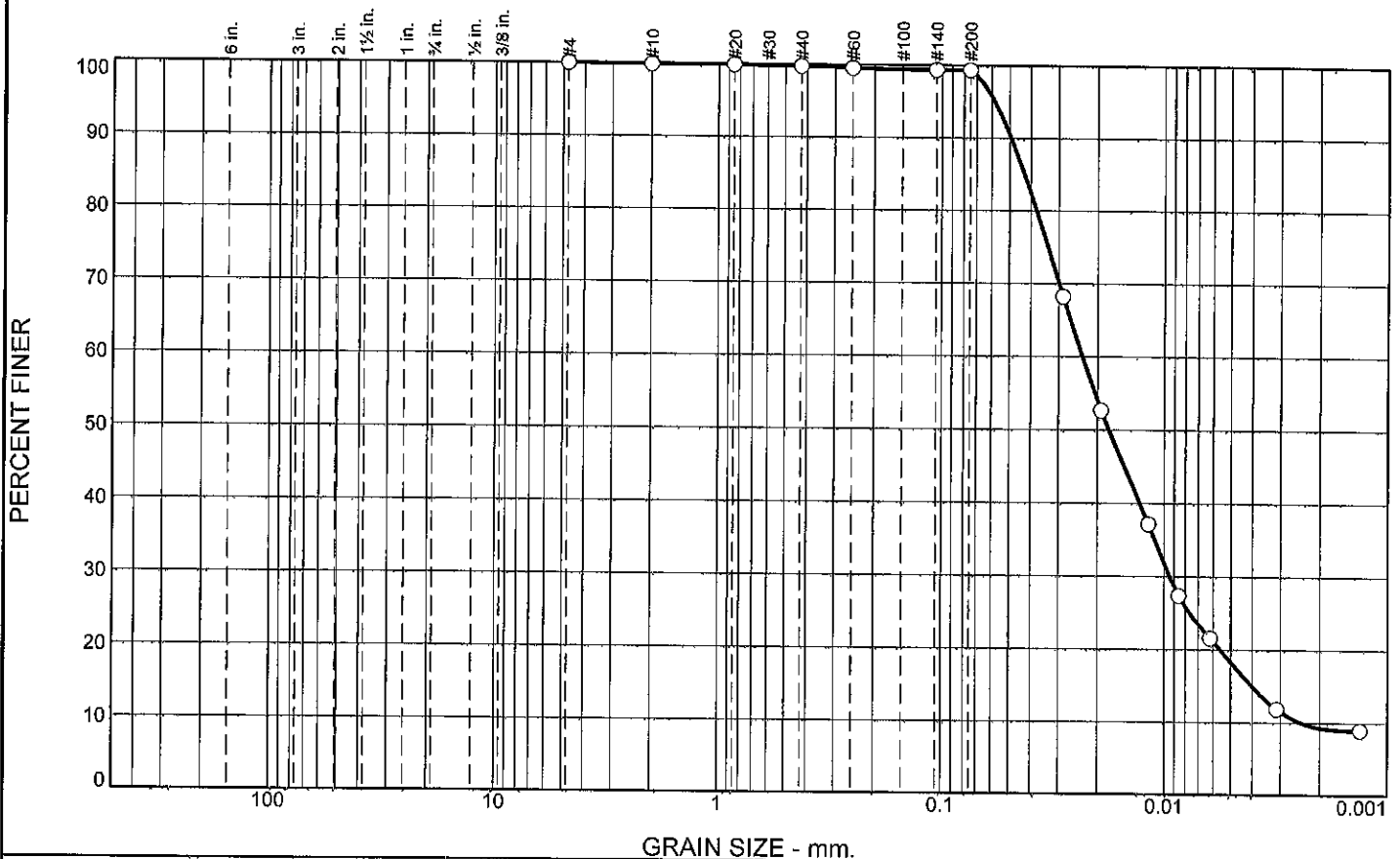
Cincinnati, Ohio

Client: AECOM
Project: WHIRLPOOL - GREEN SPRING, OH - SWP
AECOM #60299534 PO #47330ACM

Project No: N1135133 Exhibit 3821

Tested By: DR Checked By: GS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.1	0.2	0.4	90.0	9.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	99.9		
#20	99.9		
#40	99.7		
#60	99.5		
#140	99.3		
#200	99.3		

Material Description

GRAY SILT

Atterberg Limits

PL= NP LL= NP PI= NP

Coefficients

D₉₀= 0.0493 D₈₅= 0.0429 D₆₀= 0.0235
D₅₀= 0.0178 D₃₀= 0.0094 D₁₅= 0.0040
D₁₀= 0.0024 C_u= 9.70 C_c= 1.57

Classification

USCS= ML AASHTO= A-4(0)

Remarks

* (no specification provided)

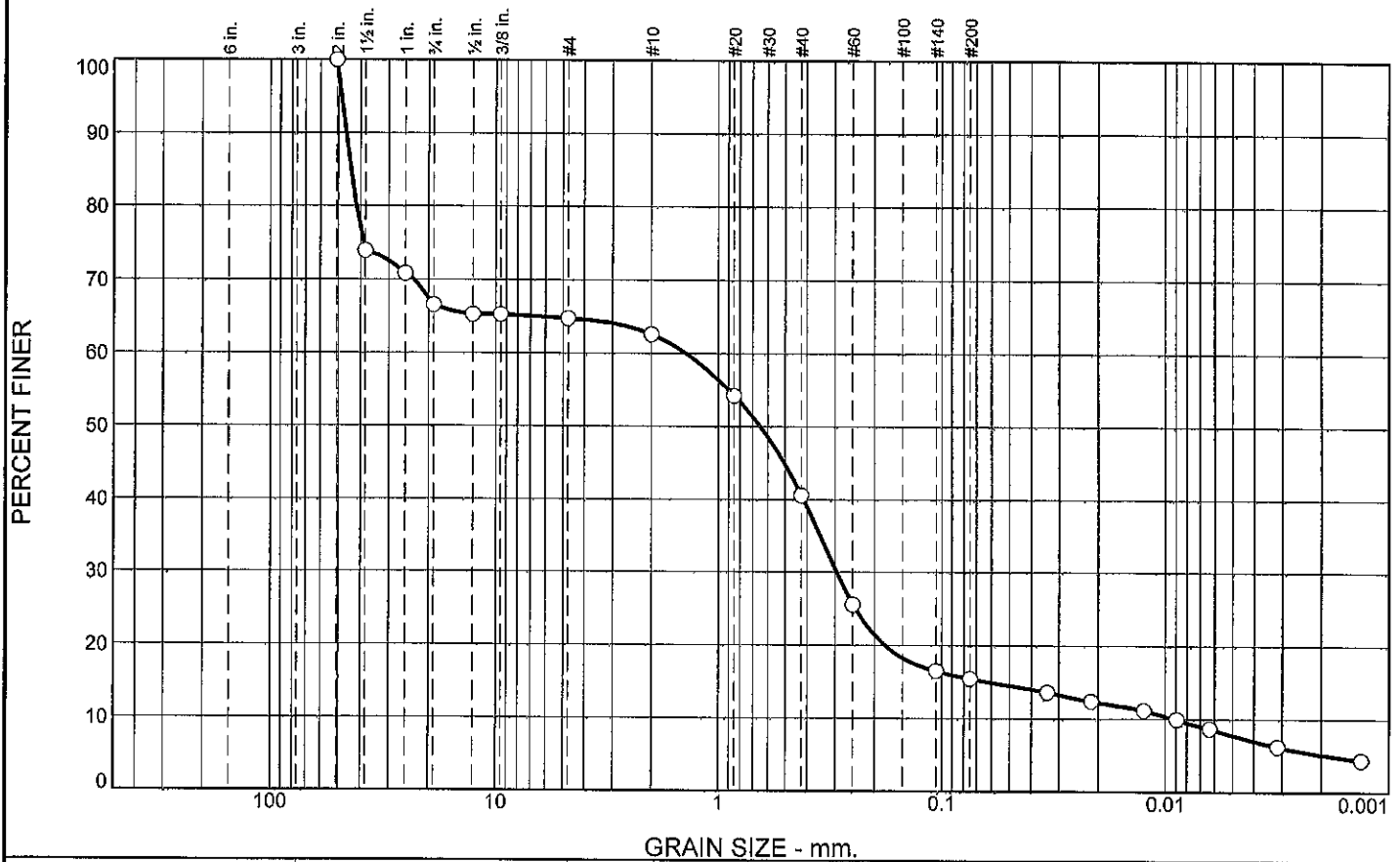
Source of Sample: 3822
Sample Number: MW-6

Date: 7-2-13

<h2 style="margin: 0;">Terracon, Inc.</h2> <p style="margin: 0;">Cincinnati, Ohio</p>	<p>Client: AECOM</p> <p>Project: WHIRLPOOL - GREEN SPRING, OH - SWP AECOM #60299534 PO #47330ACM</p> <p>Project No: N1135133 Exhibit 3822</p>
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Tested By: DR Checked By: GS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	33.4	1.9	2.1	22.0	25.2	10.2	5.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2	100.0		
1.5	74.0		
1	70.9		
.75	66.6		
.5	65.3		
.375	65.3		
#4	64.7		
#10	62.6		
#20	54.3		
#40	40.6		
#60	25.6		
#140	16.5		
#200	15.4		

Material Description

GRAY GRAVELLY SAND

Atterberg Limits

PL= LL= PI=

Coefficients

D₉₀= 46.3111 D₈₅= 44.0562 D₆₀= 1.3941
D₅₀= 0.6497 D₃₀= 0.2960 D₁₅= 0.0632
D₁₀= 0.0091 C_u= 153.02 C_c= 6.90

Classification

USCS= SP AASHTO=

Remarks

* (no specification provided)

Source of Sample: 3823
Sample Number: MW-6

Depth: 33-33.5'

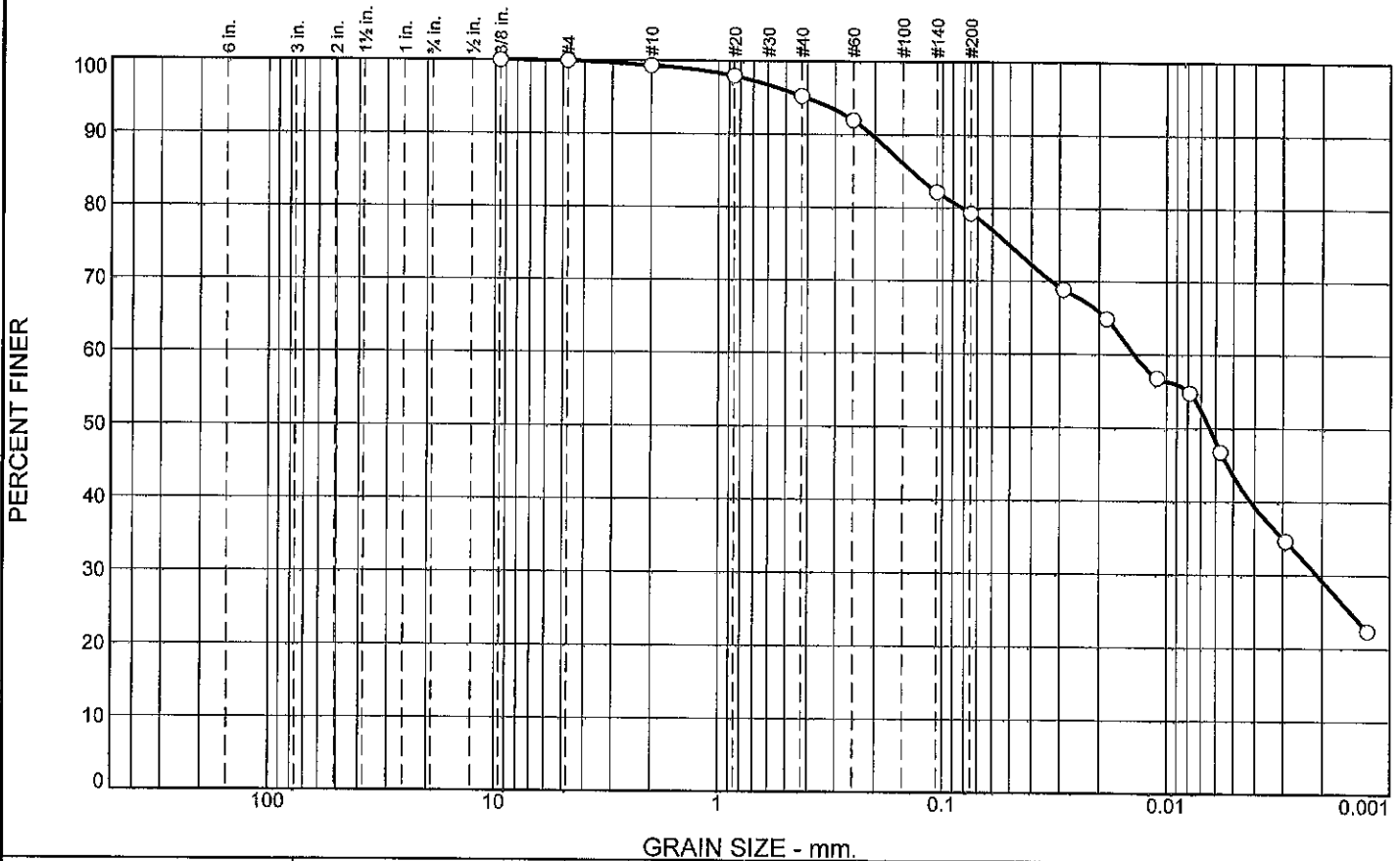
Date: 7-2-13

<h2 style="margin: 0;">Terracon, Inc.</h2> <p style="margin: 0;">Cincinnati, Ohio</p>	<p>Client: AECOM</p> <p>Project: WHIRLPOOL - GREEN SPRING, OH - SWP AECOM #60299534 PO #47330ACM</p> <p>Project No: N1135133 Exhibit 3823</p>
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Tested By: DR

Checked By: GS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.1	0.6	4.1	15.9	50.1	29.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100.0		
#4	99.9		
#10	99.3		
#20	98.0		
#40	95.2		
#60	91.9		
#140	82.2		
#200	79.3		

Material Description

GRAY ELASTIC SILT WITH SAND

Atterberg Limits

PL= 37 LL= 59 PI= 22

Coefficients

D₉₀= 0.2071 D₈₅= 0.1371 D₆₀= 0.0140
D₅₀= 0.0064 D₃₀= 0.0021 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= MH AASHTO= A-7-5(21)

Remarks

* (no specification provided)

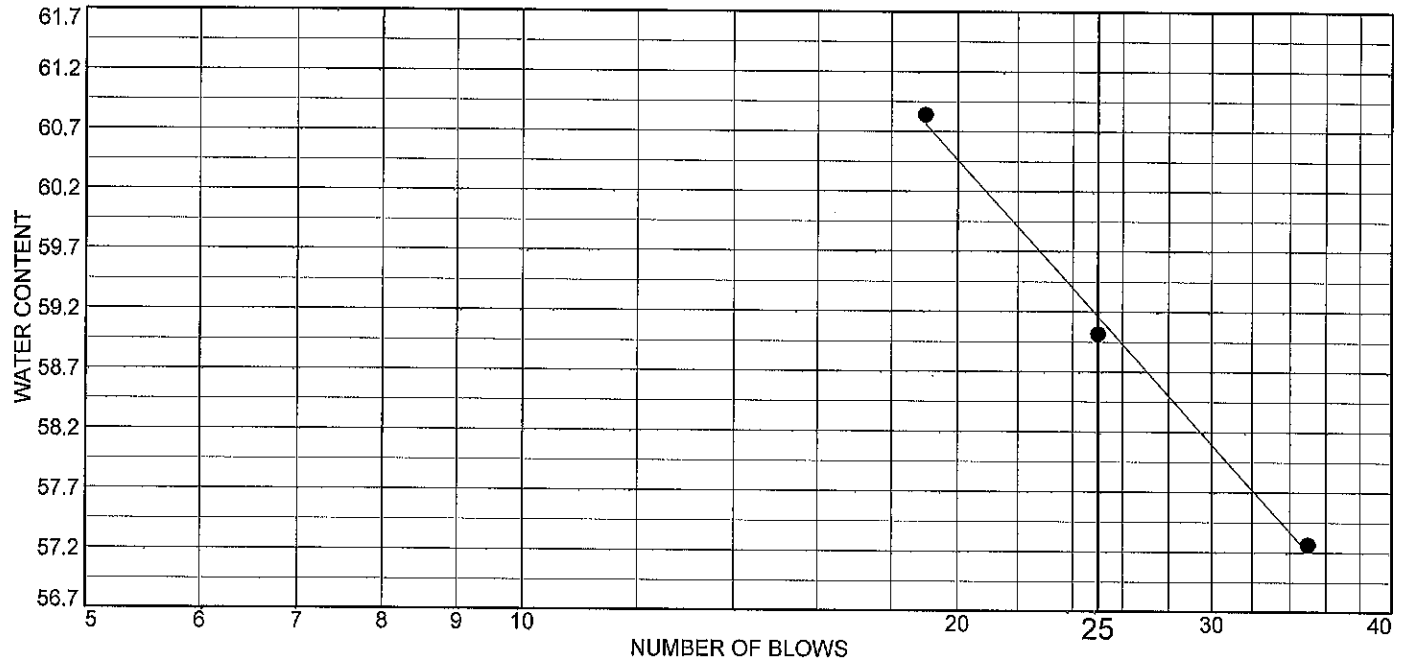
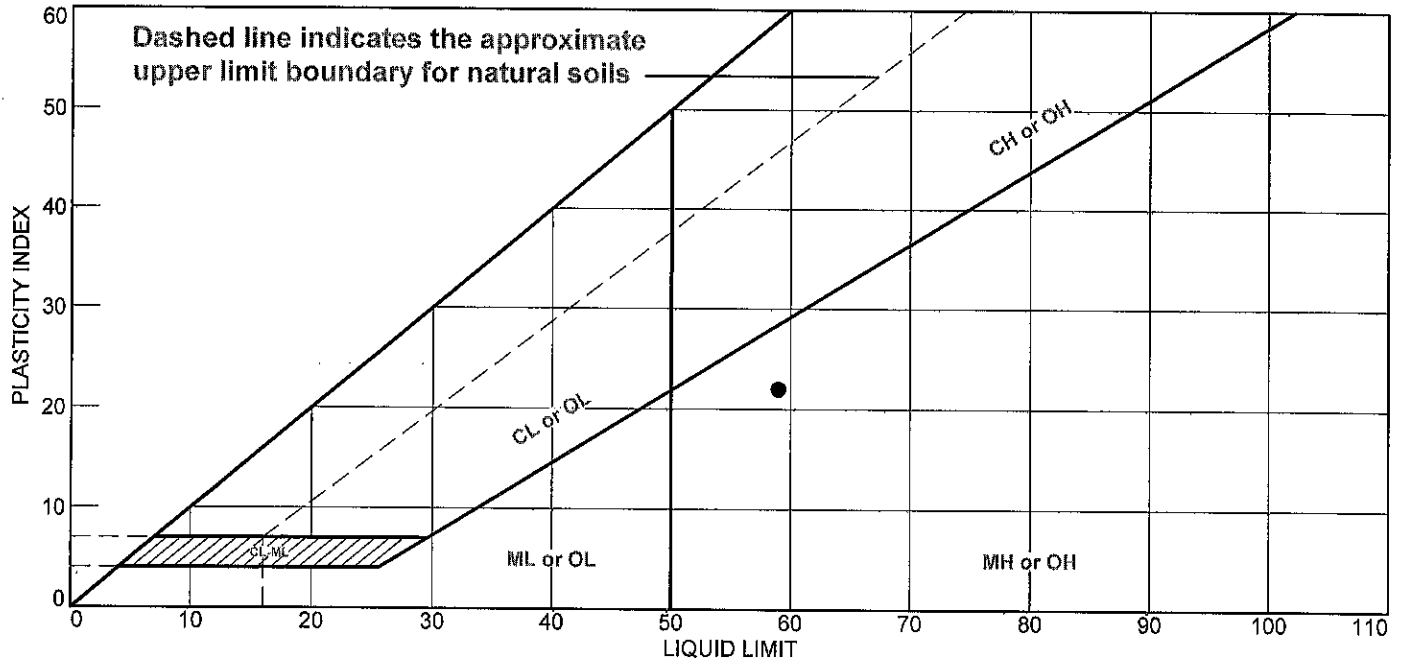
Source of Sample: 3824 Depth: 0-2'
Sample Number: S19A

Date: 7-2-13

<h2 style="margin: 0;">Terracon, Inc.</h2> <p style="margin: 0;">Cincinnati, Ohio</p>	<p>Client: AECOM</p> <p>Project: WHIRLPOOL - GREEN SPRING, OH - SWP AECOM #60299534 PO #47330ACM</p> <p>Project No: N1135133 Exhibit 3824</p>
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Tested By: DR Checked By: GS

LIQUID AND PLASTIC LIMITS TEST REPORT



MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
• GRAY ELASTIC SILT WITH SAND	59	37	22	95.2	79.3	MH

Project No. N1135133 **Client:** AECOM
Project: WHIRLPOOL - GREEN SPRING, OH - SWP
 AECOM #60299534 PO #47330ACM
Source of Sample: 3824 **Depth:** 0-2'
Sample Number: S19A

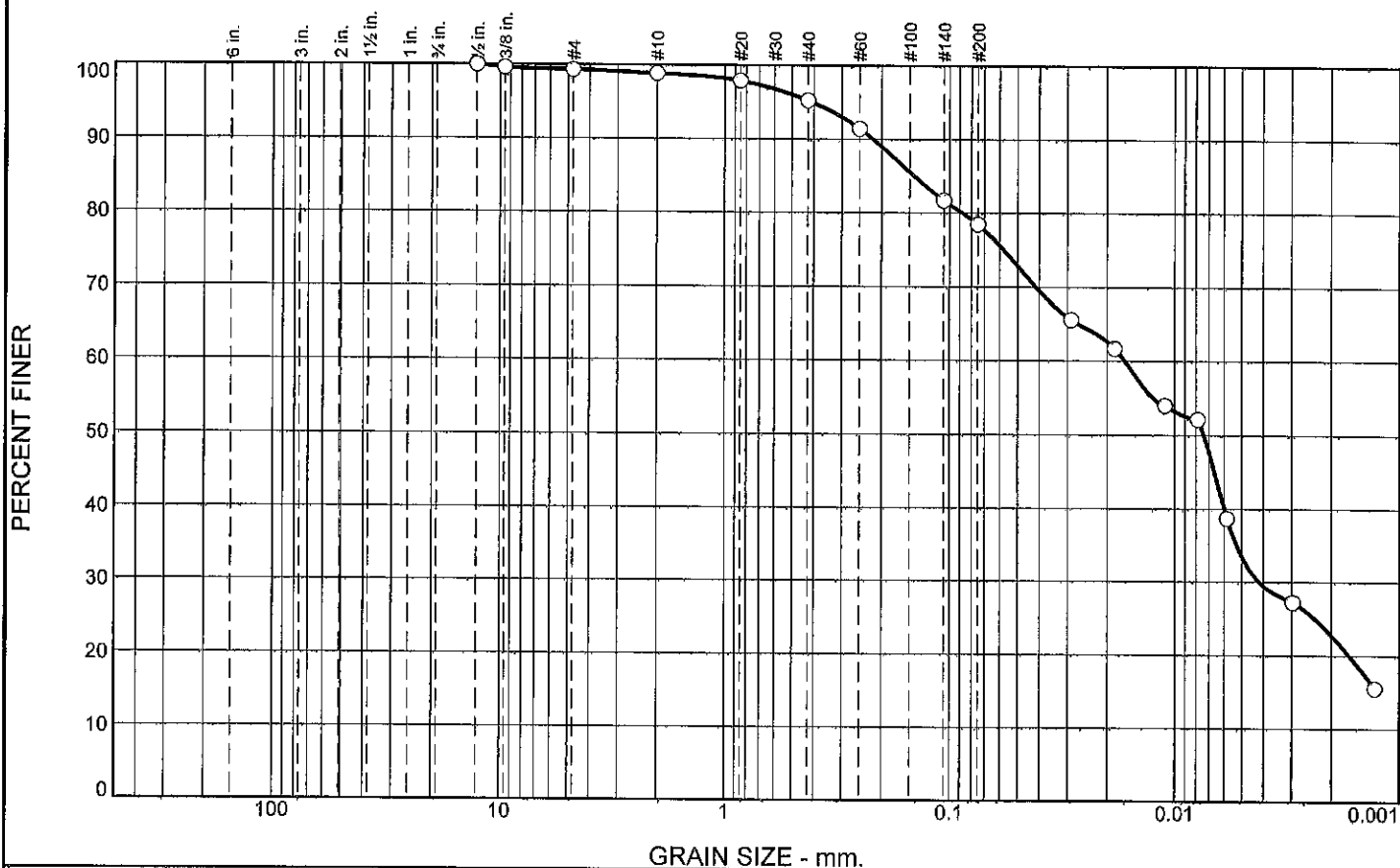
Terracon, Inc.
 Cincinnati, Ohio

Remarks:

Exhibit 3824

Tested By: DR Checked By: GS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.7	0.5	3.6	16.7	55.8	22.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.5	100.0		
.375	99.6		
#4	99.3		
#10	98.8		
#20	97.9		
#40	95.2		
#60	91.4		
#140	81.7		
#200	78.5		

Material Description

GRAY ELASTIC SILT WITH SAND

Atterberg Limits

PL= 34 LL= 54 PI= 20

Coefficients

D₉₀= 0.2183 D₈₅= 0.1433 D₆₀= 0.0167
D₅₀= 0.0074 D₃₀= 0.0042 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= MH AASHTO= A-7-5(18)

Remarks

* (no specification provided)

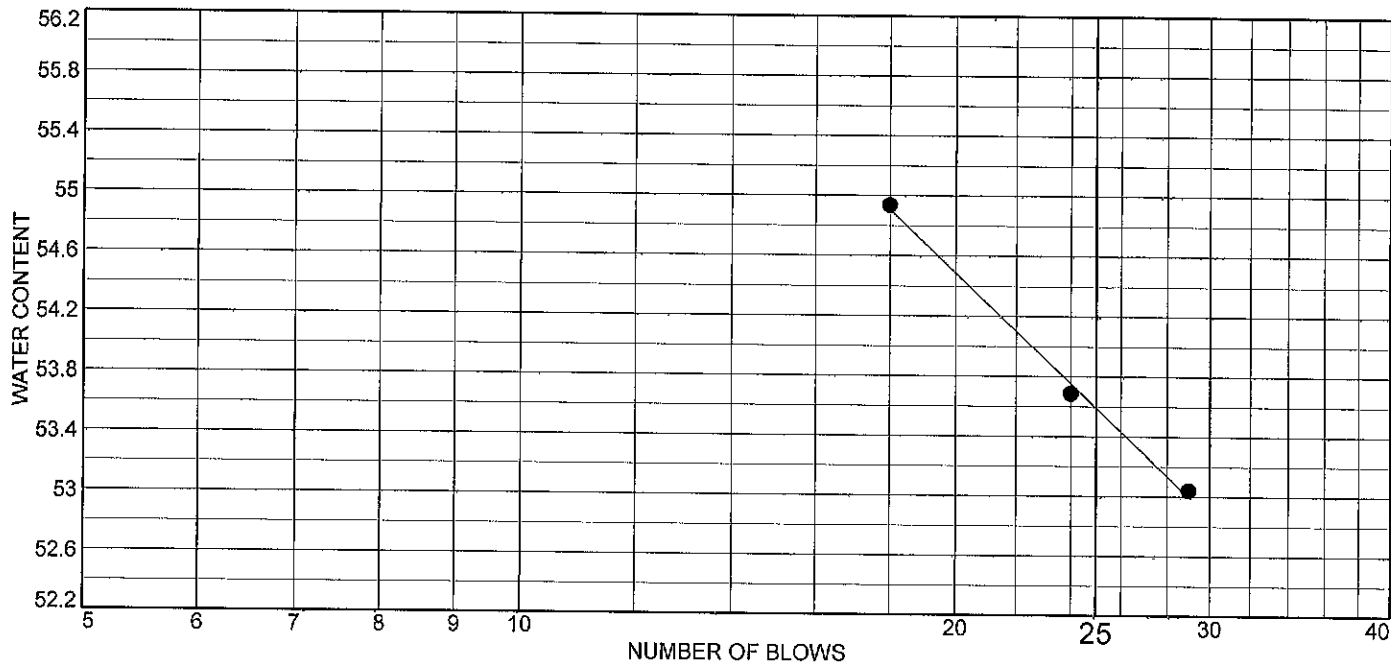
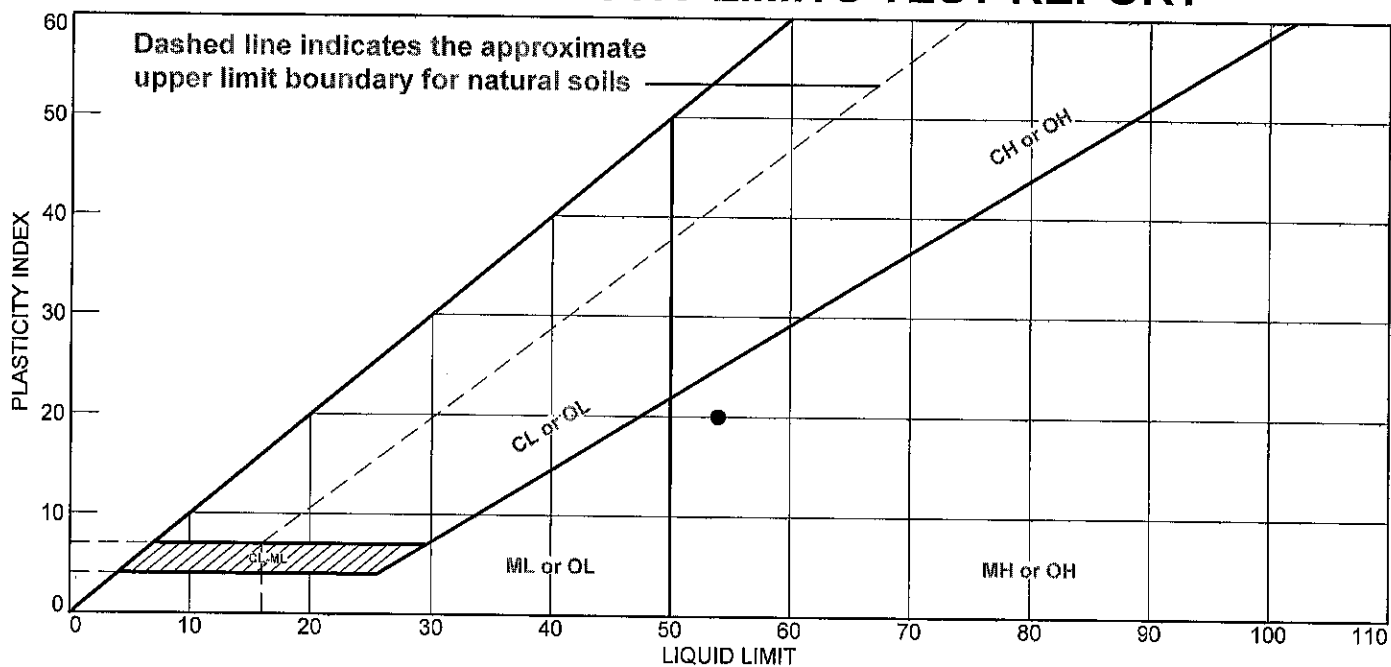
Source of Sample: 3825 Depth: 2-4'
Sample Number: S19A

Date: 7-2-13

<h2 style="margin: 0;">Terracon, Inc.</h2> <p style="margin: 0;">Cincinnati, Ohio</p>	<p>Client: AECOM</p> <p>Project: WHIRLPOOL - GREEN SPRING, OH - SWP AECOM #60299534 PO #47330ACM</p> <p>Project No: N1135133 Exhibit 3825</p>
---------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DR Checked By: GS

LIQUID AND PLASTIC LIMITS TEST REPORT



MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
GRAY ELASTIC SILT WITH SAND	54	34	20	95.2	78.5	MH

Project No. N1135133 Client: AECOM

Project: WHIRLPOOL - GREEN SPRING, OH - SWP

AECOM #60299534 PO #47330ACM

Source of Sample: 3825 Depth: 2-4'

Sample Number: S19A

Remarks:

Terracon, Inc.

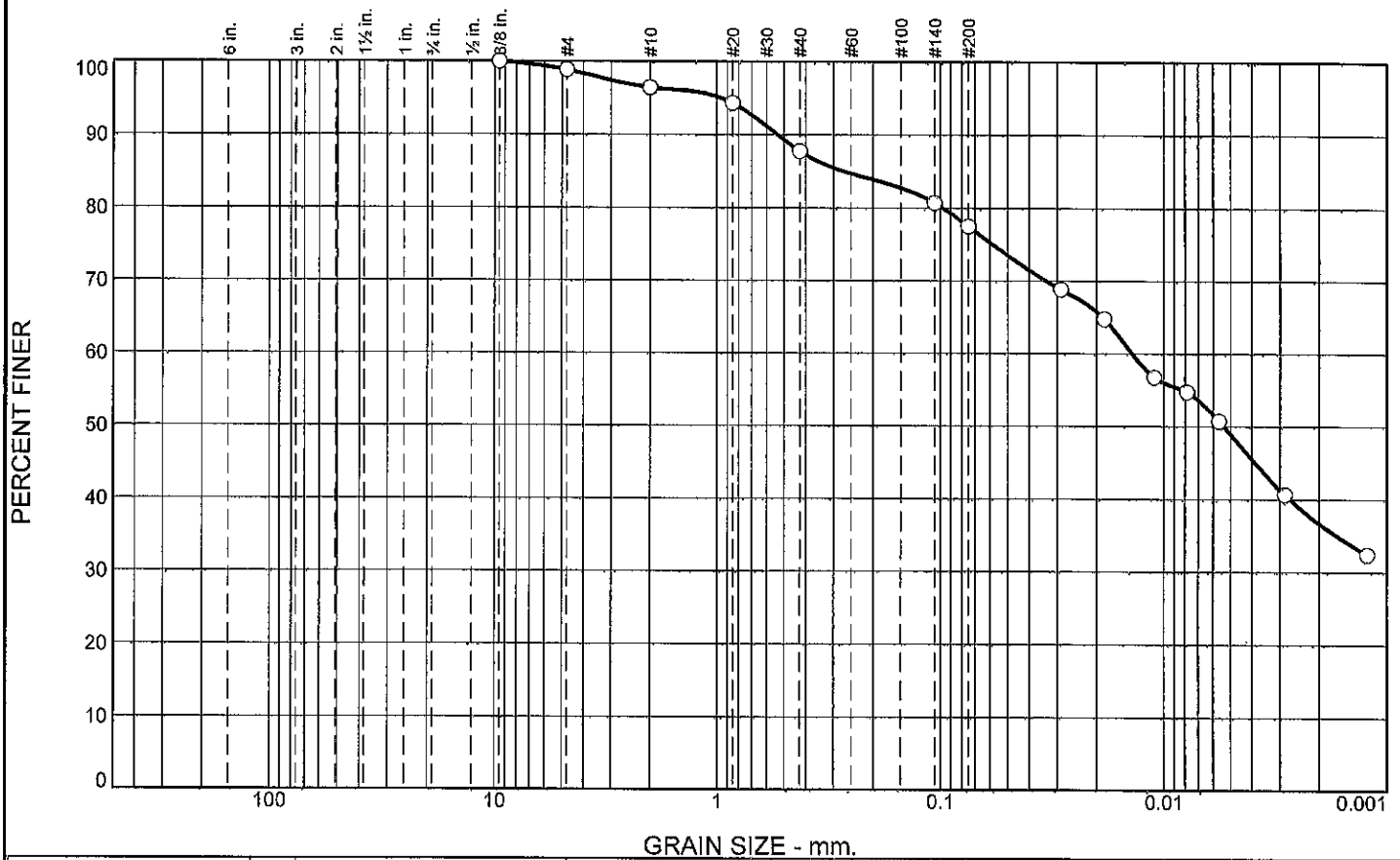
Cincinnati, Ohio

Exhibit 3825

Tested By: DR

Checked By: GS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	1.1	2.4	8.7	10.3	40.8	36.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100.0		
#4	98.9		
#10	96.5		
#20	94.4		
#40	87.8		
#140	80.7		
#200	77.5		

Material Description

GRAY LEAN CLAY WITH SAND

Atterberg Limits

PL= 21 LL= 38 PI= 17

Coefficients

D₉₀= 0.5360 D₈₅= 0.2681 D₆₀= 0.0139
D₅₀= 0.0054 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= CL AASHTO= A-6(13)

Remarks

* (no specification provided)

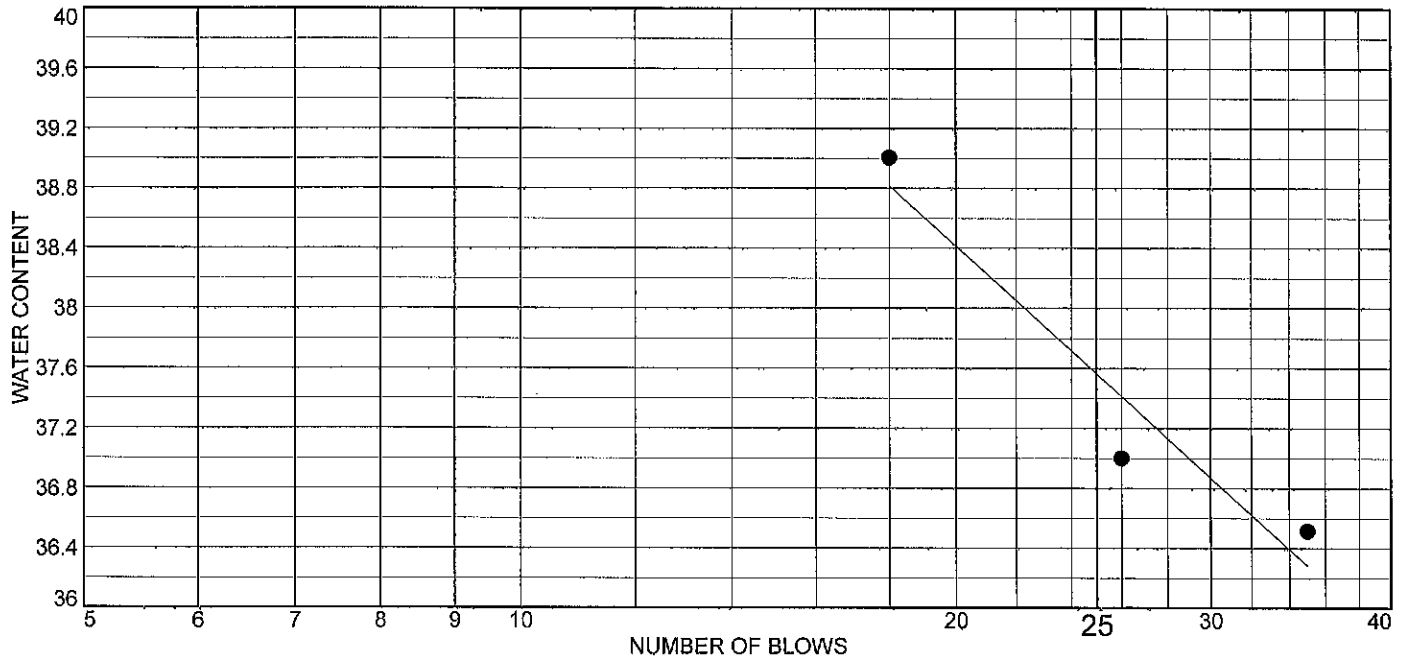
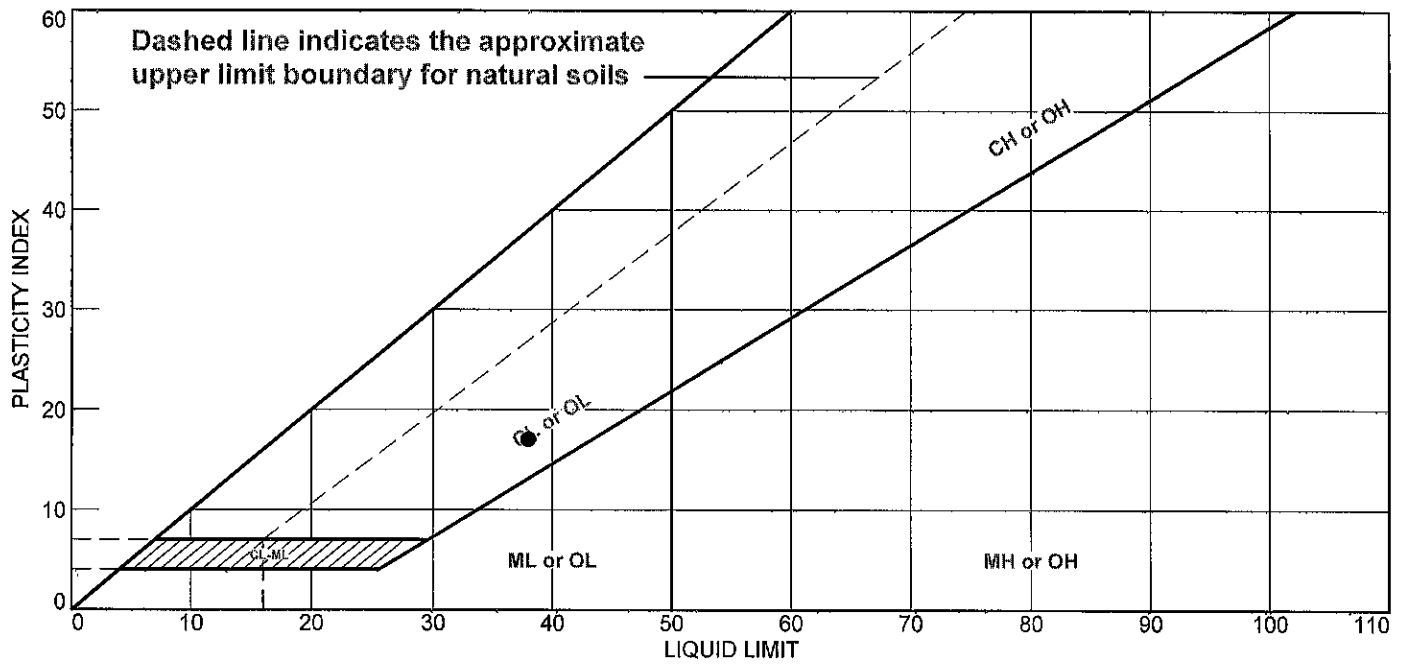
Source of Sample: 3826 Depth: 4-4.6'
Sample Number: S19A

Date: 7-2-13

<h2 style="margin: 0;">Terracon, Inc.</h2> <p style="margin: 0;">Cincinnati, Ohio</p>	<p>Client: AECOM</p> <p>Project: WHIRLPOOL - GREEN SPRING, OH - SWP AECOM #60299534 PO #47330ACM</p> <p>Project No: N1135133 Exhibit 3826</p>
---------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DR Checked By: GS

LIQUID AND PLASTIC LIMITS TEST REPORT



MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
● GRAY LEAN CLAY WITH SAND	38	21	17	87.8	77.5	CL

Project No. N1135133 **Client:** AECOM
Project: WHIRLPOOL - GREEN SPRING, OH - SWP
 AECOM #60299534 PO #47330ACM
Source of Sample: 3826 **Depth:** 4-4.6'
Sample Number: S19A

Remarks:

Exhibit 3826

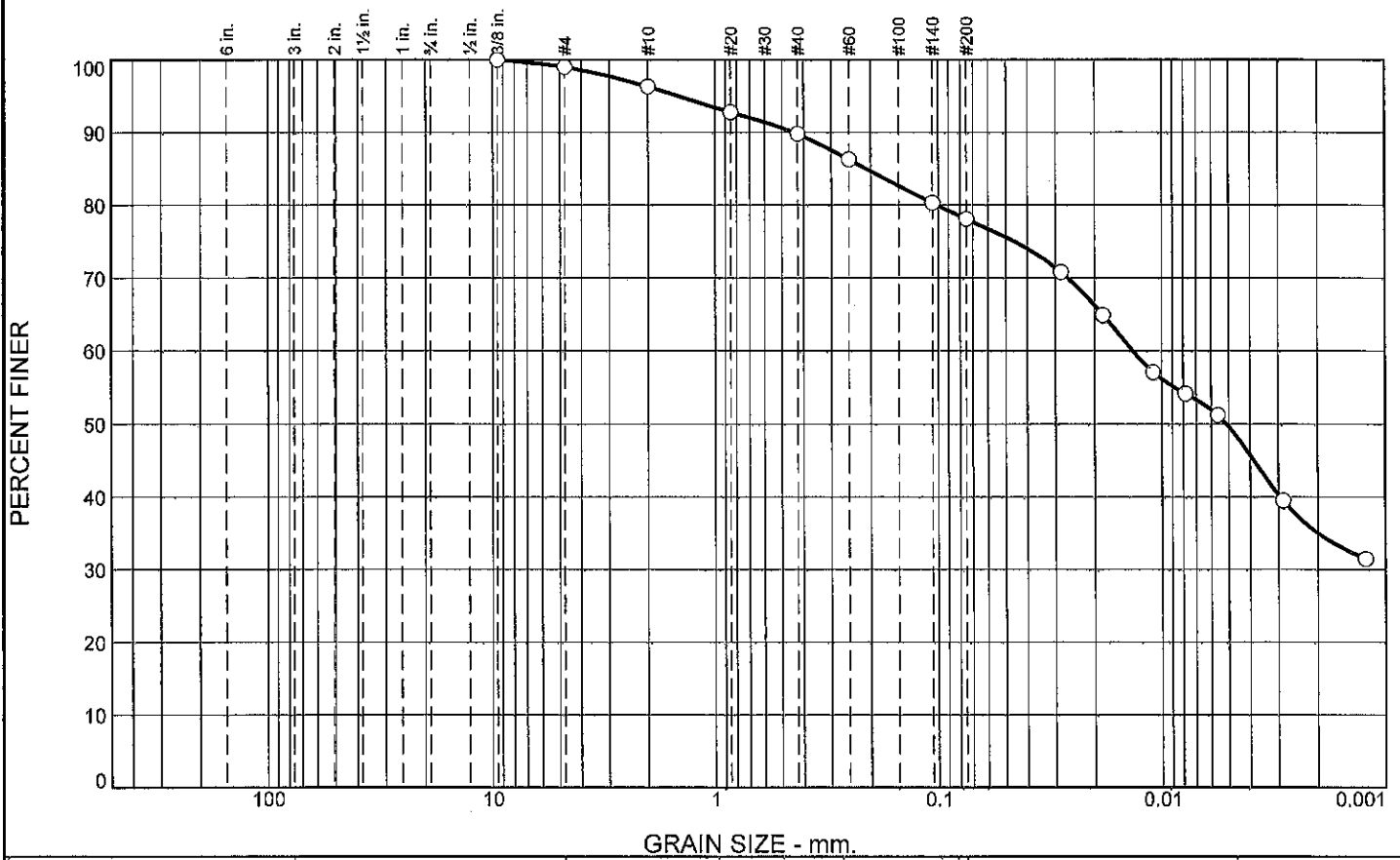
Terracon, Inc.

Cincinnati, Ohio

Tested By: DR

Checked By: GS

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	1.0	2.7	6.5	11.7	43.0	35.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100.0		
#4	99.0		
#10	96.3		
#20	92.8		
#40	89.8		
#60	86.3		
#140	80.3		
#200	78.1		

Material Description

GRAY LEAN CLAY WITH SAND

Atterberg Limits

PL= 20 LL= 34 PI= 14

Coefficients

D₉₀= 0.4407 D₈₅= 0.2092 D₆₀= 0.0135
D₅₀= 0.0051 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= CL AASHTO= A-6(10)

Remarks

* (no specification provided)

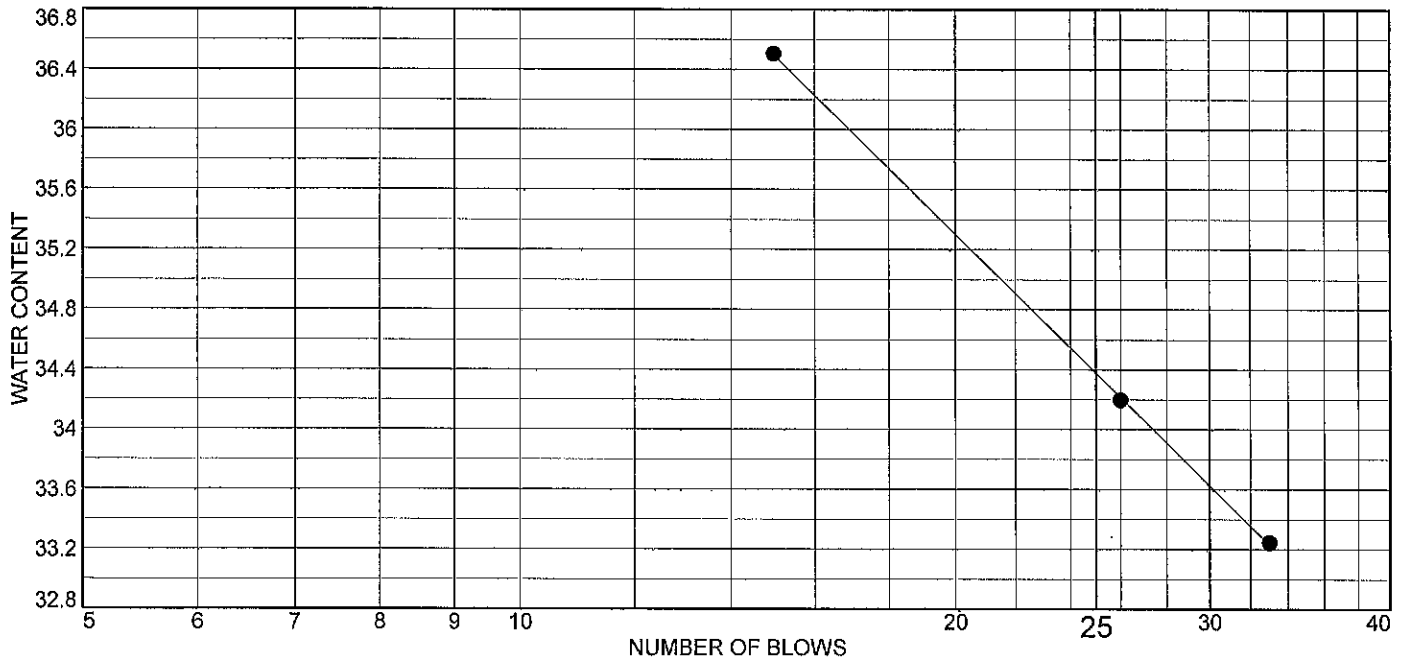
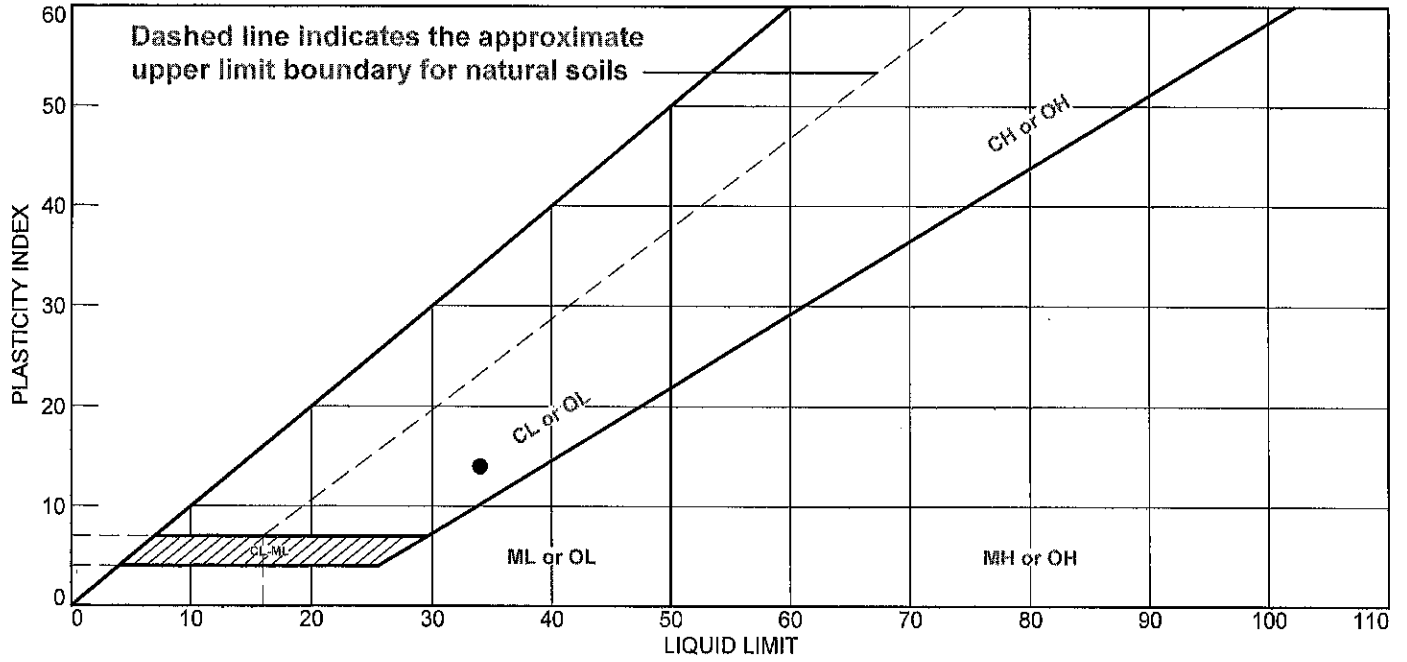
Source of Sample: 3827 Depth: 4.6-5.3'
Sample Number: S19A

Date: 7-2-13

<h2 style="margin: 0;">Terracon, Inc.</h2> <p style="margin: 0;">Cincinnati, Ohio</p>	<p>Client: AECOM</p> <p>Project: WHIRLPOOL - GREEN SPRING, OH - SWP AECOM #60299534 PO #47330ACM</p> <p>Project No: N1135133 Exhibit 3827</p>
---------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: DR Checked By: GS

LIQUID AND PLASTIC LIMITS TEST REPORT



MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
● GRAY LEAN CLAY WITH SAND	34	20	14	89.8	78.1	CL

Project No. N1135133 Client: AECOM
 Project: WHIRLPOOL - GREEN SPRING, OH - SWP
 AECOM #60299534 PO #47330ACM
 Source of Sample: 3827 Depth: 4.6-5.3'
 Sample Number: S19A

Terracon, Inc.
Cincinnati, Ohio

Remarks:

Exhibit

Tested By: DR


Checked By: GS

Appendix F

Test Trench Logs and Photographic Logs



CLIENT Whirlpool Corp. PROJECT NAME Former Whirlpool Park
 PROJECT NUMBER 60273522 PROJECT LOCATION CR 187, Green Springs Ohio, 43410
 EXCAVATION CONTRACTOR EMS, Inc. GROUND ELEVATION 666.19 ft TEST TRENCH SIZE 18 ft x 2 ft
 EXCAVATION METHOD Caterpillar 314D Trackhoe DATE STARTED / COMPLETED 5/30/2013 To 5/30/2013
 LOGGED BY R. Roelker CHECKED BY B.M. Bagley NORTHING 585950.32 EASTING 1814404.03
 NOTES Lateral extent check of fill GROUND WATER LEVEL: TIME OF EXCAVATION Dry

DEPTH (ft)	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0		3.0	Brown, LEAN CLAY (Fill at north end of trench)


Termination of Test Trench at 3.0 feet. 663.2

FWP TRENCHES - GINT STD US.GDT - 7/8/13 12:26 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\FWP.GPJ

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp. PROJECT NAME Former Whirlpool Park
 PROJECT NUMBER 60273522 PROJECT LOCATION CR 187, Green Springs Ohio, 43410
 EXCAVATION CONTRACTOR EMS, Inc. GROUND ELEVATION 666.72 ft TEST TRENCH SIZE 14 ft x 2 ft
 EXCAVATION METHOD Caterpillar 314D Trackhoe DATE STARTED / COMPLETED 5/30/2013 To 5/30/2013
 LOGGED BY R. Roelker CHECKED BY B.M. Bagley NORTHING 585946 EASTING 1814423.88
 NOTES Lateral extent check of fill GROUND WATER LEVEL: TIME OF EXCAVATION Dry

DEPTH (ft)	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0		2.5	Brown, LEAN CLAY (Fill at north end of trench)

Termination of Test Trench at 2.5 feet.


664.2

FWP TRENCHES - GINT STD US.GDT - 7/8/13 12:26 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\FWP.GPJ

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp. PROJECT NAME Former Whirlpool Park
 PROJECT NUMBER 60273522 PROJECT LOCATION CR 187, Green Springs Ohio, 43410
 EXCAVATION CONTRACTOR EMS, Inc. GROUND ELEVATION 666.87 ft TEST TRENCH SIZE 22 ft x 2 ft
 EXCAVATION METHOD Caterpillar 314D Trackhoe DATE STARTED / COMPLETED 5/30/2013 To 5/30/2013
 LOGGED BY R. Roelker CHECKED BY B.M. Bagley NORTHING 585959.49 EASTING 1814433.13
 NOTES Lateral extent check of fill GROUND WATER LEVEL: TIME OF EXCAVATION Dry

DEPTH (ft)	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0		2.0	Dark brown LEAN CLAY (Topsoil) (No fill at west end of trench)

Termination of Test Trench at 2.0 feet.


664.9

FWP TRENCHES - GINT STD US.GDT - 7/8/13 12:26 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\FWP.GPJ

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp. PROJECT NAME Former Whirlpool Park
 PROJECT NUMBER 60273522 PROJECT LOCATION CR 187, Green Springs Ohio, 43410
 EXCAVATION CONTRACTOR EMS, Inc. GROUND ELEVATION 666.13 ft TEST TRENCH SIZE 22 ft x 2 ft
 EXCAVATION METHOD Caterpillar 314D Trackhoe DATE STARTED / COMPLETED 5/30/2013 To 5/30/2013
 LOGGED BY R. Roelker CHECKED BY B.M. Bagley NORTHING 585972.72 EASTING 1814435.55
 NOTES Lateral extent check of fill GROUND WATER LEVEL: TIME OF EXCAVATION Dry

DEPTH (ft)	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0			Dark brown, LEAN CLAY (Topsoil) (No fill at west end of trench)
2		2.5	663.6

Termination of Test Trench at 2.5 feet.

FWP TRENCHES - GINT STD US.GDT - 7/8/13 12:26 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\FWP.GPJ

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp. **PROJECT NAME** Former Whirlpool Park
PROJECT NUMBER 60273522 **PROJECT LOCATION** CR 187, Green Springs Ohio, 43410
EXCAVATION CONTRACTOR EMS, Inc. **GROUND ELEVATION** 665.91 ft **TEST TRENCH SIZE** 25 ft x 4 ft
EXCAVATION METHOD Caterpillar 314D Trackhoe **DATE STARTED / COMPLETED** 5/30/2013 To 5/30/2013
LOGGED BY R. Roelker **CHECKED BY** B.M. Bagley **NORTHING** 586001.1 **EASTING** 1814401.36
NOTES Vertical extent check of fill **GROUND WATER LEVEL:** **TIME OF EXCAVATION** Dry

DEPTH (ft)	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0			Brown, SILTY CLAY containing concrete fragments/slab, asphalt, brick, drum pieces (rusted)	
2				
4				
6				
8				
10				
12				
		12.5	Gray, SILTY CLAY	653.4
		13.0		652.9
Termination of Test Trench at 13.0 feet.				

FWP TRENCHES - GINT STD US.GDT - 7/8/13 12:26 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\FWP.GPJ

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp.	PROJECT NAME Former Whirlpool Park
PROJECT NUMBER 60273522	PROJECT LOCATION CR 187, Green Springs Ohio, 43410
EXCAVATION CONTRACTOR EMS, Inc.	GROUND ELEVATION 664.6 ft TEST TRENCH SIZE 24 ft x 4 ft
EXCAVATION METHOD Caterpillar 314D Trackhoe	DATE STARTED / COMPLETED 5/30/2013 To 5/30/2013
LOGGED BY R. Roelker CHECKED BY B.M. Bagley	NORTHING 585989.01 EASTING 1814371.36
NOTES Phase II ESA	GROUND WATER LEVEL: TIME OF EXCAVATION Dry

DEPTH (ft)	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION		
0					
2			Brown, SILTY CLAY containing concrete pieces and slabs, rebar, rusted fence, brick (white/blue chips in 3-inch thick seam)		
4					
6					
8					
10					
		11.0		653.6	
		11.7		652.9	
					Termination of Test Trench at 11.7 feet.

FWP TRENCHES - GINT STD US.GDT - 7/8/13 12:26 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\FWP.GPJ

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp. **PROJECT NAME** Former Whirlpool Park
PROJECT NUMBER 60273522 **PROJECT LOCATION** CR 187, Green Springs Ohio, 43410
EXCAVATION CONTRACTOR EMS, Inc. **GROUND ELEVATION** 664.67 ft **TEST TRENCH SIZE** 18 ft x 4.5 ft
EXCAVATION METHOD Caterpillar 314D Trackhoe **DATE STARTED / COMPLETED** 5/30/2013 To 5/30/2013
LOGGED BY R. Roelker **CHECKED BY** B.M. Bagley **NORTHING** 585968.41 **EASTING** 1814381.12
NOTES Content Check (Extra) **GROUND WATER LEVEL:** **TIME OF EXCAVATION** Dry

DEPTH (ft)	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0			
2			Brown, SILTY CLAY containing concrete slabs, plastic hoses, partial white drum (rusted-empty), rusted above-ground storage tank (AST), metal pieces, metal pipe.
4			
6			
8		8.0	

Termination of Test Trench at 8.0 feet.

656.7

FWP TRENCHES - GINT STD US.GDT - 7/8/13 12:26 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\FWP.GPJ

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp. PROJECT NAME Former Whirlpool Park
 PROJECT NUMBER 60273522 PROJECT LOCATION CR 187, Green Springs Ohio, 43410
 EXCAVATION CONTRACTOR EMS, Inc. GROUND ELEVATION 666.14 ft TEST TRENCH SIZE 22 ft x 6 ft
 EXCAVATION METHOD Caterpillar 314D Trackhoe DATE STARTED / COMPLETED 5/30/2013 To 5/30/2013
 LOGGED BY R. Roelker CHECKED BY B.M. Bagley NORTHING 585987.15 EASTING 1814407.05
 NOTES Content Check (Extra) GROUND WATER LEVEL: TIME OF EXCAVATION Dry

DEPTH (ft)	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION
0			
			Brown, SILTY CLAY containing concrete slabs, metal rebar, off-white drum pieces (rusted). Trench caved in when approximately 10 ft deep.
2			
4			
6			
8			
10			
		10.0	Termination of Test Trench at 10.0 feet.

FWP TRENCHES - GINT STD US.GDT - 7/8/13 12:26 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\FWP.GPJ

*All Soil Classifications based on field observations.



CLIENT Whirlpool Corp. **PROJECT NAME** Former Whirlpool Park
PROJECT NUMBER 60273522 **PROJECT LOCATION** CR 187, Green Springs Ohio, 43410
EXCAVATION CONTRACTOR EMS, Inc. **GROUND ELEVATION** 666.05 ft **TEST TRENCH SIZE** _____
EXCAVATION METHOD Caterpillar 314D Trackhoe **DATE STARTED / COMPLETED** 5/30/2013 To 5/30/2013
LOGGED BY R. Roelker **CHECKED BY** B.M. Bagley **NORTHING** 585969.31 **EASTING** 1814399.05
NOTES Content Check (Extra) **GROUND WATER LEVEL:** **TIME OF EXCAVATION** Dry

DEPTH (ft)	GRAPHIC LOG	Layer Depth (Ft)	MATERIAL DESCRIPTION	
0			Brown, SILTY CLAY containing concrete, brick fragments, rusted drum pieces, rusted truck tailgate, wood, limestone and brick.	
2				
4				
6				
8				
10		10.0		
				Termination of Test Trench at 10.0 feet.
				656.1

FWP TRENCHES - GINT STD US.GDT - 7/8/13 12:26 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\FWP.GPJ

*All Soil Classifications based on field observations.

Client Name: Whirlpool Corporation		Site Location: Former Whirlpool Park, CR 187, Green Springs, OH	Project No. 60299534
Photo No. 1	Date: 5/30/2013	 A photograph showing a test trench (TT-1) dug into the ground. The trench is filled with dark brown soil and contains a small amount of water. The surrounding area is lush with green vegetation, including trees and bushes. A white marker with 'TT-1' written on it is placed near the trench. A yellow date stamp '05/30/2013' is visible in the bottom right corner of the photo.	
Direction Photo Taken: North			
Description: Test Trench – TT-1			

Photo No. 2	Date: 5/30/2013	 A photograph showing a test trench (TT-2) dug into the ground. The trench is filled with dark brown soil and contains a small amount of water. The surrounding area is lush with green vegetation, including trees and bushes. A white marker with 'TT-2' written on it is placed near the trench. A yellow date stamp '05/30/2013' is visible in the bottom right corner of the photo.	
Direction Photo Taken: Northwest			
Description: Test Trench – TT-2			

Client Name: Whirlpool Corporation		Site Location: Former Whirlpool Park, CR 187, Green Springs, OH	Project No. 60299534
Photo No. 3	Date: 5/30/2013	 <p>05/30/2013</p>	
Direction Photo Taken: West			
Description: Test Trench – TT-3			

Photo No. 4	Date: 5/30/2013	 <p>05/30/2013</p>	
Direction Photo Taken: West			
Description: Test Trench – TT-4			

Client Name: Whirlpool Corporation		Site Location: Former Whirlpool Park, CR 187, Green Springs, OH	Project No. 60299534
Photo No. 5	Date: 5/30/2013		
Direction Photo Taken: Northwest			
Description: Test Trench – TT-5.			

Photo No. 6	Date: 5/30/2013		
Direction Photo Taken: Southwest			
Description: Test Trench – TT-5 Material excavated.			

Client Name: Whirlpool Corporation		Site Location: Former Whirlpool Park, CR 187, Green Springs, OH	Project No. 60299534
Photo No. 7	Date: 5/30/2013		
Direction Photo Taken: Northwest			
Description: Test Trench – TT-6.			

Photo No. 8	Date: 5/30/2013	
Direction Photo Taken: North		
Description: Test Trench – TT-6 Material excavated.		

Client Name: Whirlpool Corporation		Site Location: Former Whirlpool Park, CR 187, Green Springs, OH	Project No. 60299534
Photo No. 9	Date: 5/30/2013	 <p>05/30/2013</p>	
Direction Photo Taken: East			
Description: Test Trench – TT-7.			

Photo No. 10	Date: 5/30/2013	 <p>05/30/2013</p>	
Direction Photo Taken: Northeast			
Description: Test Trench – TT-8.			

Client Name: Whirlpool Corporation		Site Location: Former Whirlpool Park, CR 187, Green Springs, OH	Project No. 60299534
Photo No. 11	Date: 5/30/2013		
Direction Photo Taken: West			
Description: Test Trench – TT-9.			

Photo No. 12	Date: 5/30/2013	
Direction Photo Taken: Northeast		
Description: Test Trench – TT-9 Material excavated		

Appendix G

ODNR Well Construction Logs

WELL LOG AND DRILLING REPORT

Well Log Number

DNR 7802.05e

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

2044224

Page 1 of 1 for this record.

WELL LOCATION	CONSTRUCTION DETAILS																																																																	
County <u>SANDUSKY</u> Township <u>GREEN CREEK</u>	Drilling Method: <u>ROTOSONIC</u>																																																																	
<u>WHIRLPOOL</u>	BOREHOLE/CASING (Measured from ground surface)																																																																	
Owner/Builder <u>CR 187</u>	1 { Borehole Diameter <u>6</u> inches Depth <u>95</u> ft. Casing Diameter <u>6</u> in. Length <u>5</u> ft. Thickness <u>0.28</u> in.																																																																	
Address of Well Location	2 { Borehole Diameter <u>6</u> inches Depth <u>93</u> ft. Casing Diameter <u>2</u> in. Length <u>83</u> ft. Thickness <u>0.154</u> in.																																																																	
City <u>GREEN SPRINGS</u> Zip Code +4 _____	Casing Height Above Ground _____ ft.																																																																	
Permit No. _____ Section; _____ and/or Lot No. _____	Type { 1: <u>Steel</u> 2: <u>PVC</u>																																																																	
Use of Well <u>MONITOR</u>	Joints { 1: <u>Threaded</u> 2: <u>Threaded</u>																																																																	
Coordinates of Well (Use only one of the below coordinate systems)	SCREEN																																																																	
State Plane Coordinates	Diameter <u>2</u> in. Slot Size <u>0.1</u> in. Screen Length <u>10</u> ft.																																																																	
N <input type="checkbox"/> X _____ +/- _____ ft.	Type <u>MACHINE SLOTTED</u> Material <u>PVC</u>																																																																	
S <input type="checkbox"/> Y _____ +/- _____ ft.	Set Between <u>93</u> ft. and <u>83</u> ft.																																																																	
Latitude, Longitude Coordinates	GRAVEL PACK (Filter Pack)																																																																	
Latitude: <u>41.273889</u> Longitude: <u>-83.060278</u>	Material/Size <u>2</u> Vol/Wt. Used <u>300</u>																																																																	
Elevation of Well in feet: _____ +/- _____ ft.	Method of Installation <u>Poured (gravity)</u>																																																																	
Datum Plane: <input type="checkbox"/> NAD27 <input checked="" type="checkbox"/> NAD83 Elevation Source _____	Depth: Placed From: <u>93</u> ft. To: <u>81</u> ft.																																																																	
Source of Coordinates: <u>DIGITAL MAP</u>	GROUT																																																																	
Well location written description:	Material <u>Bentonite/cement slurry</u> Vol/Wt. Used <u>600</u>																																																																	
	Method of Installation <u>Pumped w/Tremie pipe</u>																																																																	
	Depth: Placed From: <u>91</u> ft. To: <u>0</u> ft.																																																																	
Comments on water quality/quantity and well construction:	DRILLING LOG*																																																																	
	FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.																																																																	
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Texture</th> <th>Formation</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td></td> <td>DRY</td> <td>CLAY</td> <td>0</td> <td>65</td> </tr> <tr> <td></td> <td>DAMP</td> <td>SILT AND CLAY</td> <td>65</td> <td>88</td> </tr> <tr> <td></td> <td>DAMP</td> <td>SILTSANDGRAVEL</td> <td>88</td> <td>93</td> </tr> <tr> <td></td> <td></td> <td>CLAY</td> <td>93</td> <td>95</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Color	Texture	Formation	From	To		DRY	CLAY	0	65		DAMP	SILT AND CLAY	65	88		DAMP	SILTSANDGRAVEL	88	93			CLAY	93	95																																								
Color	Texture	Formation	From	To																																																														
	DRY	CLAY	0	65																																																														
	DAMP	SILT AND CLAY	65	88																																																														
	DAMP	SILTSANDGRAVEL	88	93																																																														
		CLAY	93	95																																																														
WELL TEST *																																																																		
Pre-Pumping Static Level <u>34</u> ft. Date <u>5/29/2013</u>																																																																		
Measured from <u>TOP OF CASING</u>																																																																		
Pumping test method <u>PUMPING</u>																																																																		
Test Rate <u>1</u> gpm Duration of Test <u>1</u> hrs.																																																																		
Feet of Drawdown <u>40</u> ft. Sustainable Yield <u>1</u> gpm																																																																		
*(Attach a copy of the pumping test record, per section 1521.05, ORC)																																																																		
Is Copy Attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Flowing Well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																																		
PUMP/PITLESS																																																																		
Type of pump <u>SUBMERSIBLE</u> Capacity <u>2</u> gpm																																																																		
Pump set at <u>93</u> ft. Pitless Type _____																																																																		
Pump installed by _____																																																																		
I hereby certify the information given is accurate and correct to the best of my knowledge.																																																																		
Drilling Firm <u>BOART LONGYEAR COMPANY</u>																																																																		
Address <u>6215 ST Lehman</u>																																																																		
City, State, Zip <u>FLINT MI 48507</u>																																																																		
Signed <u>DONALD BOND</u> Date <u>8/29/2013</u>																																																																		
(Filed Electronically)																																																																		
ODH Registration Number _____	Aquifer Type (Formation producing the most water.) <u>SILT/SAND/GRAVEL</u>																																																																	
	Date of Well Completion <u>5/29/2013</u> Total Depth of Well <u>93</u> ft.																																																																	

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

DNR 7802.05e

WELL LOCATION: SANDUSKY County, GREEN CREEK Township, WHIRLPOOL. CONSTRUCTION DETAILS: ROTOSONIC drilling method, BOREHOLE/CASING with diameters of 6 and 2 inches. SCREEN: MACHINE SLOTTED PVC. GRAVEL PACK: Filter Pack. GROUT: Bentonite/cement slurry. DRILLING LOG: FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED. WELL TEST: Pre-Pumping Static Level 26 ft, Date 5/30/2013. PUMP/PITLESS: Type of pump, Capacity gpm.

WELL LOG AND DRILLING REPORT

Well Log Number

DNR 7802.05e

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

2044229

Page 1 of 1 for this record.

WELL LOCATION, CONSTRUCTION DETAILS, WELL TEST, PUMP/PITLESS, DRILLING LOG*
County SANDUSKY Township GREEN CREEK
WHIRLPOOL
Owner/Builder CR 187
City GREEN SPRINGS Zip Code +4
Permit No. Section; and/or Lot No.
Use of Well MONITOR
Coordinates of Well (Use only one of the below coordinate systems)
State Plane Coordinates
N X +/- ft. S Y +/- ft.
Latitude, Longitude Coordinates
Latitude: 41.273333 Longitude: -83.057778
Elevation of Well in feet: +/- ft.
Datum Plane: NAD27 NAD83 Elevation Source
Source of Coordinates: DIGITAL MAP
Well location written description:
Comments on water quality/quantity and well construction:
Pre-Pumping Static Level 29 ft. Date 5/30/2013
Measured from TOP OF CASING
Pumping test method PUMPING
Test Rate 1 gpm Duration of Test 1 hrs.
Feet of Drawdown 25 ft. Sustainable Yield 1 gpm
*(Attach a copy of the pumping test record, per section 1521.05, ORC)
Is Copy Attached? Yes No Flowing Well? Yes No
Type of pump SUBMERSIBLE Capacity gpm
Pump set at ft. Pitless Type
Pump installed by
I hereby certify the information given is accurate and correct to the best of my knowledge.
Drilling Firm BOART LONGYEAR COMPANY
Address 6215 ST Lehman
City, State, Zip FLINT MI 48507
Signed DONALD BOND Date 8/29/2013
(Filed Electronically)
ODH Registration Number
Drilling Method: ROTOSONIC
BOREHOLE/CASING (Measured from ground surface)
1 Borehole Diameter 6 inches Depth 70 ft.
Casing Diameter 6 in. Length 5 ft. Thickness 0.28 in.
2 Borehole Diameter 6 inches Depth 63 ft.
Casing Diameter 2 in. Length 58 ft. Thickness 0.154 in.
Casing Height Above Ground ft.
Type 1: Steel 2: PVC
Joints 1: Threaded 2: Threaded
SCREEN
Diameter 2 in. Slot Size 0.1 in. Screen Length 5 ft.
Type MACHINE SLOTTED Material PVC
Set Between 58 ft. and 63 ft.
GRAVEL PACK (Filter Pack)
Material/Size 2 Vol/Wt. Used 150
Method of Installation Poured (gravity)
Depth: Placed From: 63 ft. To: 56 ft.
GROUT
Material Bentonite/cement slurry Vol/Wt. Used 400
Method of Installation Pumped w/Tremie pipe
Depth: Placed From: 56 ft. To: 0 ft.
DRILLING LOG*
FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.
Color Texture Formation From To
CLAYSANDSILT 0 55
DAMP CLAYSILTSAND 55 64
CLAY & GRAVEL 64 70
Aquifer Type (Formation producing the most water.) CLAY/SAND/SILT
Date of Well Completion 5/30/2013 Total Depth of Well 63 ft.

WELL LOG AND DRILLING REPORT
Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

DNR 7802.05e

Well Log Number
2044228
Page 1 of 1 for this record.

WELL LOCATION CONSTRUCTION DETAILS

County SANDUSKY Township GREEN CREEK
Owner/Builder WHIRLPOOL
CR 187
Address of Well Location
City GREEN SPRINGS Zip Code +4
Permit No. Section; and/or Lot No.
Use of Well MONITOR
Coordinates of Well (Use only one of the below coordinate systems)
State Plane Coordinates
N X +/- ft.
S Y +/- ft.
Latitude, Longitude Coordinates
Latitude: 41.273333 Longitude: -83.058333
Elevation of Well in feet: +/- ft.
Datum Plane: NAD27 NAD83 Elevation Source
Source of Coordinates: DIGITAL MAP
Well location written description:
Comments on water quality/quantity and well construction:

Drilling Method: ROTOSONIC
BOREHOLE/CASING (Measured from ground surface)
1 Borehole Diameter 6 inches Depth 70 ft.
Casing Diameter 6 in. Length 5 ft. Thickness 0.28 in.
2 Borehole Diameter 6 inches Depth 70 ft.
Casing Diameter 2 in. Length 60 ft. Thickness 0.154 in.
Casing Height Above Ground ft.
Type 1: Steel
2: PVC
Joints 1: Threaded
2: Threaded
SCREEN
Diameter 2 in. Slot Size 0.1 in. Screen Length 10 ft.
Type MACHINE SLOTTED Material PVC
Set Between 60 ft. and 70 ft.
GRAVEL PACK (Filter Pack)
Material/Size 2 Vol/Wt. Used 300
Method of Installation Poured (gravity)
Depth: Placed From: 70 ft. To: 58 ft.
GROUT
Material Bentonite/cement slurry Vol/Wt. Used 400
Method of Installation Pumped w/Tremie pipe
Depth: Placed From: 58 ft. To: 0 ft.

DRILLING LOG*

Table with columns: Color, Texture, Formation, From, To. Includes entries for CLAYSANDGRAVEL and CLAYGRAVELSILT.

WELL TEST *

Pre-Pumping Static Level 28 ft. Date 6/4/2013
Measured from TOP OF CASING
Pumping test method PUMPING
Test Rate 1 gpm Duration of Test 1 hrs.
Feet of Drawdown 25 ft. Sustainable Yield 1 gpm
*(Attach a copy of the pumping test record, per section 1521.05, ORC)
Is Copy Attached? Yes No Flowing Well? Yes No

PUMP/PITLESS

Type of pump SUBMERSIBLE Capacity 2 gpm
Pump set at 70 ft. Pitless Type
Pump installed by
I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm BOART LONGYEAR COMPANY
Address 6215 ST Lehman
City, State, Zip FLINT MI 48507
Signed DONALD BOND Date 8/29/2013
(Filed Electronically)

ODH Registration Number

Aquifer Type (Formation producing the most water.) CLAY/SAND/GRAVEL
Date of Well Completion 6/4/2013 Total Depth of Well 70 ft.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Department.

WELL LOG AND DRILLING REPORT

Well Log Number

DNR 7802.05e

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

2044227

Page 1 of 1 for this record.

Form containing sections: WELL LOCATION, CONSTRUCTION DETAILS, WELL TEST *, PUMP/PITLESS, and DRILLING LOG*. Includes fields for County (SANDUSKY), Township (GREEN CREEK), Well Name (WHIRLPOOL), and various technical specifications for casing, screen, and grout.

Appendix H

Survey Data

**FORMER WHIRLPOOL PARK
KS PROJECT NO. 12261
SURVEY DATE 06/12/13-06/24/13**

Point #	North	East	Elev	Description
2199	585943.38	1814604.09	668.79	S-1
3277	585989.27	1814517.85	668.88	S-1A
2503	585952.63	1814690.56	669.54	S-2
2302	585842.15	1814628.66	669.16	S-3
2304	585846.88	1814686.64	669.35	S-4
2294	585747.02	1814597.26	670.50	S-5
2783	585651.65	1814720.42	670.87	S-6
3047	585608.86	1814518.16	653.18	S-7
3172	585483.35	1814557.37	652.67	S-8
2966	585641.39	1814468.15	657.78	S-9
2934	585454.45	1814513.90	658.16	S-10
2232	585889.12	1814451.18	661.05	S-11
2223	585904.78	1814583.61	661.07	S-12
2267	585873.83	1814578.91	662.66	S-13
2434	585878.21	1814698.92	661.40	S-14
2628	585787.29	1814841.72	662.93	S-15
3311	585587.90	1814938.09	662.94	S-16
3319	585637.03	1815018.02	671.69	S-17
3562	585400.80	1814887.68	662.28	S-18
3536	585524.01	1815012.89	662.77	S-19
3534	585514.46	1815013.80	662.49	S-19A
3322	585571.39	1815076.78	672.26	S-20
3596	585294.37	1814900.60	668.12	S-21
3490	585417.21	1814983.36	667.55	S-22
3355	585491.74	1815142.13	672.67	S-23
3595	585187.97	1814941.54	668.11	S-24
3463	585303.88	1814987.83	671.96	S-25
3447	585370.44	1815099.81	671.76	S-26
3491	585410.40	1815096.13	664.07	S-27
3353	585424.49	1815126.30	670.17	S-28
3482	585193.05	1814982.58	671.25	S-29
3433	585300.59	1815093.76	673.01	S-30
3414	585345.89	1815135.28	672.13	S-31
3360	585404.43	1815197.27	672.89	S-32
3479	585168.09	1815048.19	672.66	S-33
3424	585205.09	1815085.27	673.36	S-34
3407	585295.54	1815194.27	672.80	S-35
3366	585347.02	1815246.96	672.57	S-36
3422	585161.75	1815140.82	673.52	S-37
3403	585211.76	1815193.02	673.11	S-38
3395	585247.60	1815247.63	672.22	S-39
3370	585293.79	1815299.15	672.40	S-40
3399	585154.65	1815248.26	673.10	S-41
3392	585207.07	1815292.94	673.02	S-42
3371	585248.62	1815341.87	671.76	S-43
10014	585294.23	1815399.60	673.95	S-44
3389	585160.01	1815348.38	672.48	S-45
3390	585199.74	1815348.65	671.79	S-46
3374	585205.00	1815384.54	672.26	S-47

**FORMER WHIRLPOOL PARK
KS PROJECT NO. 12261
SURVEY DATE 06/12/13-06/24/13**

Point #	North	East	Elev	Description
10015	585291.56	1815502.19	674.75	S-48
3377	585154.53	1815446.02	670.79	S-49
10016	585189.66	1815499.17	673.93	S-50
3416	585252.21	1815133.40	673.22	S-51
3807	586321.18	1814064.01	643.71	SED-1 SW-1
3827	585852.61	1814322.86	645.75	SED-2 SW-2
3841	585552.92	1814446.79	646.81	SED-3 SW-3
3862	585190.95	1814703.41	647.84	SED-4 SW-4
3671	585337.17	1814812.43	655.75	SED-5 SW-5
3609	585271.21	1814867.95	662.45	SED-6 SW-6
3627	585158.66	1814937.66	661.77	SED-7 SW-7
3492	585415.26	1815107.44	663.30	SED-8 SW-8
3386	585162.97	1815429.76	672.41	SED-9 SW-9
10006	585782.19	1814938.65	674.77	SS1
10007	585752.12	1814972.44	671.86	SS2
10008	585687.37	1815051.73	672.66	SS3
10009	585625.74	1815131.81	673.66	SS4
10010	585557.24	1815209.16	678.58	SS5
10011	585492.24	1815286.82	680.24	SS6
10012	585420.19	1815332.82	681.08	SS7
10013	585377.44	1815420.69	680.93	SS8
2183	585950.32	1814404.03	666.19	TT-1
2182	585946.00	1814423.88	666.72	TT-2
2181	585959.49	1814433.13	666.87	TT-3
2180	585972.72	1814435.55	666.13	TT-4
3717	586001.10	1814401.36	665.91	TT-5
3724	585989.01	1814371.36	664.60	TT-6
3721	585968.41	1814381.12	664.67	TT-7
3718	585987.15	1814407.05	666.14	TT-8
2184	585969.31	1814399.05	666.05	TT-9
2209	586064.75	1814504.09		WELLM-1
2211			668.52	TOP 2IN PVC
2210			668.69	GROUND ELEV
10003	585807.17	1814952.09		WELLM-2
10004			671.36	TOP 2IN PVC
10005			671.91	GROUND ELEV
2874	585568.81	1814730.86		WELLM-3
2875			669.05	TOP 2IN PVC
2873			669.25	GROUND ELEV
3598	585313.30	1814914.72		WELLM-4
3599			667.95	TOP 2IN PVC
3597			668.07	GROUND ELEV
3402	585164.86	1815190.45		WELLM-5
3401			672.54	TOP 2IN PVC
3400			673.04	GROUND ELEV
3711	585952.51	1814334.54		WELLM-6
3712			657.27	TOP 2IN PVC
3710			654.12	GROUND ELEV

FORMER WHIRLPOOL PARK
KS PROJECT NO. 12261
SURVEY DATE 06/12/13-06/24/13

Horizontal Datum: Ohio State Plane North Zone NAD83(2011)
Vertical Datum: NAVD88

T. A. Bixler

Signature

7730

6-27-13

Registered Surveyor No.

Date



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Appendix I

Well Development Logs, Water Level and Groundwater Sampling Data



Well Development Log - FWP, Green Springs, OH.

Well ID	44-1		Water Level Meter:	NA
Well Diameter	2"		Water Quality Meter:	Horiba USA11A210 #0000814 #0004718
Date	6/6/13		Calibration Date/Time:	6/6/13 / 8:40
Location	see map		Calibration Standards (pH/Conductivity):	PH 4.0, 4.4, 9.0, 9.0, 9.0, 9.0, 9.0
Personnel	see below		Purge Method (Pump Type / Bailor):	Air-Lift (1" PVC, 1/2" x 3/8" poly tubing)
Weather	cloudy, 56°F		Static DTW (ft below TOC):	34.25
Well Screen Length (ft)	10 ft, (83-93 ft)		Initial DTB (ft below TOC):	92.85
Well Condition:	Ashment, New well pad		Development Process:	Remove minimum of 5 well volumes but no more than 10 well volumes. Goal is 3 consecutive field readings that are stable.

Date	Time	Vol. Purged (Gal)	Well Casing Volume	Temperature (°C)		pH (S.U.)	Conductivity (mS/cm) ± 3%	Turbidity (NTU) ± 10%	Comments
				± 0.5°C	± 0.1 S.U.				
6/6/13	0802	20	1.6	12.36	5.91	2.58	>800	Air-Lift foaming 3 ft. from bottom.	
	0805	40	3.2	11.40	6.59	2.59	>800	Muddy brown	
	0809	60	4.8	11.15	6.92	2.59	>800	" "	
	0813	80	6.4	11.07	7.04	2.57	481	cloudy brown	
	0817	100	8.0	10.99	7.12	2.57	279	" "	
	0821	120	9.6	10.97	7.17	2.58	203	" "	
	0825	140	11.2	10.96	7.21	2.58	205	" "	
	0830	165	13.2	11.04	7.21	2.57	142	" "	
	0834	190	15.2	11.02	7.23	2.58	119	slightly cloudy brown	
	0838	215	17.2	11.01	7.25	2.58	100	" "	
	0844	240	19.2	10.99	7.25	2.58	115	" "	
	0848	DTM = 38.15 ft	Measured immediately after air-lift foaming removed.						
Notes: Approx. 60 gal. of drill water used. This amount has been removed. No water levels due to air-lift tubing downhole.									

Developer's Name:

Michael Papp

Developer's Signature:

Michael Papp



Well Development Log - FWP, Green Springs, OH.

Well ID	MW-2		Water Level Meter:	AECOM owned (Solinst)	
Well Diameter	2"		Water Quality Meter:	Horiba USA2 (H470) #0000814 #0004718	
Date	6/6/13, 6/10/13, 6/11/13, 6/21/13		Calibration Date/Time:	See Field Notes for various Cal. dates/times	
Location	see map		Calibration Standards (pH/Conduct/turbidity):	pH 4.0, 4.99mS/cm, 0.0NTU	
Personnel	see below		Purge Method (Pump Type / Bailor):	Air-Lift, SS Hurricane Pump, 2" bailer	
Weather	various		Static DTW (ft below TOC):	23.10	
Well Screen Length (ft)	54 (53-58 ft)		Initial DTB (ft below TOC):	57.90	
Well Condition:	Plushment, New wellpad,		Development Process: Remove minimum of 5 well volumes but no more than 10 well volumes. Goal is 3 consecutive field readings that are stable.	Final DTB (ft below TOC): 57.90	

Date	Time	Vol. Purged (Gal)	Well Casing Volume	Temperature	pH	Conductivity	Turbidity	Comments
				(°C)	(S.U.)	(mS/cm)	(NTU)	
6/6/13	0954	5.0	0.69	—	—	—	—	Air-lift 3A from bottom, Dry.
6/10/13	1023	Install	SS Hurricane pump	—	—	—	—	Muddy brown.
	1046	12.0	1.65	—	—	—	—	DTW = 57.00 ft, Dry after 7 gal.
	1240	Start	SS Hurricane pump	—	—	—	—	DTW = 53.08 ft,
	1244	12.25	1.68	—	—	—	—	DTW = 55.30 ft, Dry after 0.25 gal.
	1437	—	—	—	—	—	—	DTW = 51.65 ft,
	1738	—	—	—	—	—	—	DTW = 47.95 ft,
6/11/13	1005	Install	SS Hurricane pump	—	—	—	—	DTW = 38.63 ft,
	1029	14.6	2	18.56	10.28	0.880	> 800	DTW = 51.70 ft, Muddy brown,
	1041	15.85	—	—	—	—	—	DTW = 54.50 ft (top of pump), dry
	1333	—	—	—	—	—	—	DTW = 51.88 ft (top of pump), dry
	1608	Start	SS Hurricane pump	—	—	—	—	DTW = 49.41 ft,
	1615	17.35	—	—	—	—	—	DTW = 54.50 ft (top of pump) dry, muddy brown
6/12/13	0740	Start	SS Hurricane pump	—	—	—	—	DTW = 49.84 ft,
	0750	18.35	—	16.95	10.80	0.884	> 800	DTW = 53.20 ft,
	0807	20.65	—	—	—	—	—	DTW = 56.70 ft (top of pump) dry

Developer's Name:

Michael Papp

Developer's Signature:

Michael Papp

Well ID	NW-2		Water Level Meter:	AECOM owned (Solinst)	
Well Diameter	2"		Water Quality Meter:	Horiba US2 (HA210 #0000814 #0004718)	
Date	6/6/13, 6/10/13, 6/11/13, 6/12/13		Calibration Date/Time:	See Field Notes for various Cal. dates/times.	
Location	see map		Calibration Standards (pH/Cond/Turbidity):	pH 4.0, 4.49, 5.0, 0.0 NTU	
Personnel	see below		Purge Method (Pump Type / Bailers):	Air-Lift, SS Airline Pump, 2" bailer	
Weather	various		Static DTW (ft below TOC):	23.10	
Well Screen Length (ft)	59 (53-58 ft)		Initial DTB (ft below TOC):	57.90	
Well Condition:	Plushmant, low well pad.		Development Process:	Remove minimum of 5 well volumes but no more than 10 well volumes. Goal is 3 consecutive field readings that are stable.	

Date	Time	Vol. Purged (Gal)	Well Casing Volume	Temperature	pH	Conductivity	Turbidity	Comments
				(°C) ± 0.5°C	(S.U.) ± 0.1 S.U.	(mS/cm) ± 3%	(NTU) ± 10%	
6/12/13	1458	—	—	—	—	—	—	DTW = 53.97'
↓	1503	21.87	3	16.94	10.11	0.420	—	Huddy brown w/ sand.
↓	1505	22.4	—	—	—	—	—	DTW = 57.97. Used 2" disposable bailer for last 1.75 gal.
								Note: Approx. 50 gal. of drill water used. This amount has not been removed due to poor well recharge.
								Well was initially artesian. Pressure released forcing water out of 2" PVC well. Unk. amount of water forced out including drill water.

Developer's Name:

Michael Papp

Developer's Signature:





Well Development Log - FWP, Green Springs, OH.

Well ID	MW-3		Water Level Meter:	AECOM owned (Solinst)
Well Diameter	2"		Water Quality Meter:	Hoibo USA/HAZIC#0000814, #0004718
Date	6/6/13, 6/10/13, 6/11/13, 6/12/13		Calibration Date/Time:	See Field Notes for various Cal. Dates/Times
Location	see map		Calibration Standards (pH/Cond/Turbidity):	PH 9.0, 4.99 Slcm, 0.0 NTU
Personnel	see below		Purge Method (Pump Type / Bailer):	SS 'Harris can Pump
Weather	various		Static DTW (ft below TOC):	23, 10
Well Screen Length (ft)	58 (58-63 FT)		Initial DTB (ft below TOC):	52, 90
Well Condition:	Flushment, New well ped,		Final DTB (ft below TOC):	57, 90

Development Process: Remove minimum of 5 well volumes but no more than 10 well volumes. Goal is 3 consecutive field readings that are stable.

Date	Time	Vol. Purged (Gal)	Well Casing Volume	Temperature	pH	Conductivity	Turbidity	Comments
				(°C)	(S.U.)	(mS/cm)	(NTU)	
6/6/13	0937	—	—	—	—	—	—	Start pump, 0.5 ft above bottom.
	1000	—	—	—	—	—	—	Dry @ 6 gal, DTW = 53.60 FT.
	1011	—	—	—	—	—	—	DTW = 48.80 FT.
	1032	—	—	—	—	—	—	DTW = 43.96 FT.
	1048	Start Pump	—	—	—	—	—	Flow 2000 gal/min, Muddy brw w/ sand.
	1055	—	—	—	—	—	—	DTW = 61.20 FT, Dry @ 9 gal.
	1207	—	—	—	—	—	—	DTW = 39.35 FT.
	1209	Start Pump	—	—	—	—	—	Flow 2000 gal/min.
	1225	14.2	2	15.08	7.88	1.78	> 800	DTW = 59.20 FT, Muddy brw w/ sand.
	1229	—	—	—	—	—	—	Dry @ 15 gal, DTW = 61.50 FT.
	1321	Start Pump	—	—	—	—	—	DTW = 43.00 FT.
	1343	—	—	—	—	—	—	Dry @ 18 gal, DTW = 61.00 FT.
	1433	Start Pump	—	—	—	—	—	DTW = 43.00 FT.
	1453	2.2	—	14.70	7.73	1.98	> 800	Dry @ 22 gal, DTW = 60.20 FT.
6/10/13	0949	Start Pump	—	—	—	—	—	DTW = 39.64 FT.
	1007	25.25	—	—	—	—	—	Dry @ 25.25 gal.

Developer's Name:

Michael Papp

Developer's Signature:

Michael Papp



Well Development Log - FWP, Green Springs, OH.

Well ID	MW-3	Water Level Meter:	
Well Diameter	2"	Water Quality Meter:	
Date	6/6/13, 6/10/13, 6/11/13, 6/12/13	Calibration Date/Time:	See Page 2
Location	see map	Calibration Standards (pH/Cond/Turbidity):	
Personnel	see below	Purge Method (Pump Type / Bailor):	
Weather	various	Static DTW (ft below TOC):	23,10
Well Screen Length (ft)	58 (58-63 ft)	Initial DTB (ft below TOC):	57,90
Well Condition:	Flush mount, New well pod,	Development Process: Remove minimum of 5 well volumes but no more than 10 well volumes. Goal is 3 consecutive field readings that are stable.	Final DTB (ft below TOC): 57,90

Date	Time	Vol. Purged (Gal)	Well Casing Volume	Temperature (°C)		pH (S.U.)	Conductivity (mS/cm)	Turbidity (NTU)	Comments
				± 0.5°C	± 0.1 S.U.				
6/10/13	1200	Restart	Pump						DTW = 32.15
	1215	28.4	4	15.90	7.18	1.92	130		DTW = 61.70 ft.
	1233	32.0							DTW = 61.70 ft. Dry @ 32 gal.
	1337	Restart Pump							DTW = 40.70 ft.
	1407	35.5	5	16.60	7.74	1.92	>800		
	1426	38.75							DTW = 61.70 ft. Dry @ 38.75 gal.
	1645	Restart Pump.							DTW = 35.48 ft.
	1659	42.6	6	18.29	7.69	1.93	>800		475 ml/min
	1710	45.0		17.68	7.64	1.95	797		DTW = 55.20 ft., 600 ml/min
	1730	48.75							DTW = 61.70 ft. top of pump. Dry @ 48.75 ft.
	2007	Restart Pump							DTW = 31.49 ft.
	2010	49.70	7	16.75	7.81	1.90	>800		DTW = 40.98 ft.
	2031	53.8		16.20	7.62	1.99	798		DTW = 54.25 ft.
	2047	55.2		16.21	7.58	2.00	>800		DTW = 57.20 ft. 500 ml/min
	2055	56.8	8	15.75	7.56	2.01	>800		DTW = 59.65 ft.
	2106	58.8							DTW = 62.30 ft. (top of pump). Dry

Developer's Name:

Michael Papp

Developer's Signature:

Michael Papp (inked copy)



Well Development Log - FWP, Green Springs, OH.

Well ID	NW-3		Water Level Meter:	
Well Diameter	2" / 1"		Water Quality Meter:	
Date	6/6/13, 6/10/13, 6/11/13, 6/12/13		Calibration Date/Time:	See Page 7
Location	see map		Calibration Standards (pH/Cond/Turbidity):	See Page 7
Personnel	see below		Purge Method (Pump Type / Bailer):	
Weather	various		Static DTW (ft below TOC):	23, 10
Well Screen Length (ft)	57 (SS-63ft)		Initial DTB (ft below TOC):	57, 90
Well Condition:	Flushmount, New well pad		Final DTB (ft below TOC):	57, 80
Development Process: Remove minimum of 5 well volumes but no more than 10 well volumes. Goal is 3 consecutive field readings that are stable.				

Date	Time	Vol. Purged (Gal)	Well Casing Volume	Temperature	pH	Conductivity	Turbidity	Comments
				(°C)	(S.U.)	(mS/cm)	(NTU)	
6/11/13	1051	Start Pump	—	—	—	—	—	DTW = 29, 24 ft
	1105	61.8	—	15.94	8.21	1.97	> 800	DTW = 48, 80 ft, cloudy brown
	1114	63.9	9	15.49	7.77	2.00	800	DTW = 57, 20 ft, " "
	1120	64.9	—	15.40	7.64	2.04	> 800	DTW = 60, 13 ft
	1125	66.4	—	—	—	—	—	DTW = 62, 30 ft (top of pump), Dry
	1349	Start Pump	—	—	—	—	—	DTW = 31, 50 ft, cloudy brown
	1409	68.4	—	18.55	7.75	1.95	800	DTW = 44, 40 ft, debris in sup.
	1431	71.0	10	19.04	7.50	2.62	456	DTW = 51, 85 ft, 500-600 mg/l/min
	1447	74.6	—	17.71	7.52	2.00	7800	DTW = 61, 35 ft " "
	1450	75.1	—	—	—	—	—	DTW = 62, 36 ft (top of pump), dry
	1714	Start Pump	—	—	—	—	—	DTW = 31, 41 ft
	1728	76.6	—	19.61	7.73	1.90	352	DTW = 42, 50 ft, 600-700 mg/l/min
	1737	79.1	11	17.20	7.57	1.99	164	DTW = 48, 35 ft, " "
	1751	80.1	—	17.28	7.48	2.01	215	DTW = 53, 87 ft, " "
	1805	82.1	—	17.29	7.45	2.01	122	DTW = 58, 71 ft, " "
	1825	85.2	12	17.39	7.43	2.06	800	DTW = 62, 30 ft (top of pump), dry

Developer's Name:

Developer's Signature:

Michael Papp

Michael Papp



Well Development Log - FWP, Green Springs, OH.

Well ID	MU-3	Water Level Meter:	
Well Diameter	2"	Water Quality Meter:	
Date	6/6/13, 6/10/13, 6/11/13, 6/12/13	Calibration Date/Time:	See Page 2
Location	see map	Calibration Standards (pH/Cond/Turbidity):	See Page 2
Personnel	see below	Purge Method (Pump Type / Bailor):	
Weather	various	Static DTW (ft below TOC):	23.10
Well Screen Length (ft)	58. (58-63 ft)	Initial DTB (ft below TOC):	57.80
Well Condition:	Freshment. New well pad,	Final DTB (ft below TOC):	57.80
		Development Process: Remove minimum of 5 well volumes but no more than 10 well volumes. Goal is 3 consecutive field readings that are stable.	

Date	Time	Vol. Purged (Gal)	Well Casing Volume	Temperature	pH	Conductivity	Turbidity	Comments
				(°C)	(S.U.)	(mS/cm)	(NTU)	
6/12/13	1150	Start Pump						DTW = 28.80 ft., cloudy brown
	1201							DTW = 35.83 ft., 400-500 mL/min
	1210	87.2		18.00	7.67	1.88	155	DTW = 41.55 ft., 500-600 mL/min
	1216	89.2		16.90	7.50	1.98	150	DTW = 51.13 ft., " "
	1246	92.3	13	17.11	7.45	1.98	187	DTW = 59.60 ft., " "
	1255	94.3		16.79	7.43	1.97	2800	DTW = 62.03 ft., " "
	1257	94.8						DTW = 62.30 ft. (top of pump) dry
Note: approx. 50 gal. of drill water used. This amount has been removed.								

Developer's Name:

Michael Papp

Developer's Signature:

Michael Papp

Well ID	MW-4		Water Level Meter:	ABQ owned (Self test)	
Well Diameter	2"		Water Quality Meter:	Horiba DSA(HAZ10 #0000814, #0004718)	
Date	6/5/13		Calibration Date/Time:	6/5/13 @ 0730	
Location	see map		Calibration Standards (pH/Cond/Turbidity):	pH 4.0, 4.49g/cm Stm, 200TC	
Personnel	see below		Purge Method (Pump Type / Bailor):	SS Hurricane Pump (BY owned)	
Weather	Sunny 60°F		Static DTW (ft below TOC):	20.10	
Well Screen Length (ft)	10ft. (60-70ft)		Initial DTB (ft below TOC):	70.00	
Well Condition:	Flushmant, Abu well pad,		Final DTB (ft below TOC):	69.97	
Development Process: Remove minimum of 5 well volumes but no more than 10 well volumes. Goal is 3 consecutive field readings that are stable.					

Date	Time	Vol. Purged (Gal)	Well Casing Volume	Temperature (°C)		pH (S.U.)		Conductivity (mS/cm)		Turbidity (NTU)		Comments
				±0.5°C	±0.1 S.U.	±3%	±10%					
6/5/13	0812	—	—	15.79	8.43	0.369	>800	Initial Pump 0.5 @ 60 min DM=57.55 ft				
	0818	No more water	No more water	15.50	7.77	1.888	>800	Use SS Hurricane Pump, 2000ml/min				
	0851	8.0	0.73	16.44	8.37	1.110	>800	DM=64.50 ft, 1300 ml/min				
	0915	—	—	—	—	—	—	DM=65.17 ft, 1700 ml/min				
	0922	16.0	1.46	16.74	7.85	1.74	>800	DM=65.25 ft, 1800 ml/min				
	0953	24.0	2.2	16.25	7.68	2.69	>800	DM=66.76 ft, 1200 ml/min				
	1014	32.0	2.9	15.49	7.68	1.86	>800	DM=68.10 ft				
	1037	40.0	3.7	16.67	7.61	2.13	>800	DM=68.15 ft, 1300 ml/min				
	1102	48.0	4.4	16.21	7.71	1.88	>800	DM=68.15 ft, 1400 ml/min				
	1122	56.0	5.1	16.33	7.71	2.00	>800	DM=68.15 ft, 1500 ml/min				
	1200	64.0	5.8	17.48	7.60	2.03	383	DM=67.21 ft, 1500 ml/min				
	1220	72.0	6.5	17.24	7.67	1.88	455	DM=66.92 ft, 1400 ml/min				
	1240	80.0	7.3	16.48	7.44	2.03	395	DM=66.92 ft, 1400 ml/min				
	1314	88.0	8.0	16.48	7.68	2.03	508	DM=66.92 ft, 1400 ml/min				
	1332	96.0	8.7	16.48	7.68	2.03	508	DM=66.92 ft, 1400 ml/min				
	1359	104	9.45	16.48	7.68	2.03	508	DM=66.92 ft, 1400 ml/min				

Developer's Name:

Michael Papp

Developer's Signature:

Michael Papp

Well ID	44-4	Water Level Meter:	
Well Diameter	2"	Water Quality Meter:	
Date	6/5/13	Calibration Date/Time:	See
Location	see map	Calibration Standards (pH/Cond/Turbidity):	see
Personnel	see below	Purge Method (Pump Type / Bailor):	
Weather	Sunny, 60°F	Static DTW (ft below TOC):	20.10
Well Screen Length (ft)	10 ft (60-70 ft)	Initial DTB (ft below TOC):	20.00
Well Condition:	Flushmont. New well pad	Final DTB (ft below TOC):	69.87
Development Process: Remove minimum of 5 well volumes but no more than 10 well volumes. Goal is 3 consecutive field readings that are stable.			

Date	Time	Vol. Purged (Gal)	Well Casing Volume	Temperature (°C)	pH (S.U.)	Conductivity (mS/cm)	Turbidity (NTU)	Comments
				± 0.5°C	± 0.1 S.U.	± 3%	± 10%	
6/5/13	—	112	10.2	16.33	7.93	2.14	105	DN = 66.92 ft, 1400 ml/min
	1444	120	10.9	16.13	7.93	2.12	22.5	DN = 63.25 ft, 1400 ml/min
	1505	128	11.4	17.20	7.50	2.08	91.4	DN = 63.20 ft, 1300 ml/min
	1529	136	12.4	16.48	7.59	1.99	162	DN = 63.30 ft, " "
	1553	144	13.1	15.79	7.46	2.08	53.3	DN = 64.66 ft, " "
Note: Approx. 75 gal. of drill water used. This amount has been removed.								

Developer's Name: Michael Papp

Developer's Signature: [Signature]

Well ID	NW-5		Water Level Meter:	NA
Well Diameter	2"		Water Quality Meter:	Horiba US2HA210 #0000814, #0004718
Date	6/5/13		Calibration Date/Time:	6/5/13 @ 0730
Location	see map		Calibration Standards (pH/Cond/Turbidity):	at 4.0, 4.4, 9.95, 5cm, 0.002 TC
Personnel	see below		Purge Method (Pump Type / Bailor):	40-L (1" PVC, 1/2" x 3/8" poly tubing)
Weather	Sunny, 65°F		Static DTW (ft below TOC):	13, 97
Well Screen Length (ft)	10 ft (50-60 ft)		Initial DTB (ft below TOC):	59, 90
Well Condition:	Flushment, New well pad,		Development Process:	Remove minimum of 5 well volumes but no more than 10 well volumes. Goal is 3 consecutive field readings that are stable.

Date	Time	Vol. Purged (Gal)	Well Casing Volume	Temperature (°C)		pH (S.U.)		Conductivity (mS/cm) ± 3%	Turbidity (NTU) ± 10%	Comments
				± 0.5°C	± 0.1 S.U.					
6/5/13	1020	15.0	1.45	15.02	8.18	1.40	> 800	Muddy grey, 1200 mL/min		
	1044	22.5	2.2	15.33	8.12	1.42	> 800	cloudy grey, 1200 mL/min		
	1114	30.0	2.94	17.17	8.12	1.43	> 800	11/11/11, 700 mL/min		
	1153	37.5	3.65	18.26	8.42	1.42	625	" " " 800 mL/min		
	1235	45.0	4.4	18.52	8.17	1.45	464	" " " 700 mL/min		
	1309	52.5	5.1	18.75	8.33	1.43	> 800	Air pressure inc. = turb. inc.		
	1352	60.0	5.85	18.39	8.26	1.49	108	slightly cloudy, 650 mL/min		
	1449	67.5	6.6	17.30	8.21	1.52	175	cloudy 1600 mL/min		
	1514	75.0	7.3	17.60	8.24	1.51	234	" " " 1500 mL/min		
	1606	82.5	8.0	17.51	8.22	1.56	91.4	" " " 1800 mL/min		
	1611	DTW = 52.00 ft						air-lift tooling removed.		
<p>Note: DTW not collected due to presence of air-lift tooling down hole.</p> <p>Hooper, SO gas lift drill water used. This amount removed. Well initially Artesian after well installed. Pressure in formation pushed water and drill water out of well. Ink amount of water and drill water.</p>										

Developer's Name:

Michael Papp

Developer's Signature:

Michael Papp



Well Development Log - FWP, Green Springs, OH.

Well ID	MN-6		Water Level Meter:	AECOM owned (Solinst)	
Well Diameter	2"		Water Quality Meter:	Horiba USA (HAZ10 #0000814, #0004718)	
Date	6/30/13, 6/24/13-6/5/13, 6/12/13-6/12/13		Calibration Date/Time:	See field notes for various Cal. dates/Times	
Location	see map		Calibration Standards (pH/Conductivity):	pH 9.0, 4.99m, Stem, 0.0 NTU	
Personnel	see below		Purge Method (Pump Type / Bailor):	2" Porter 5/30/13, 6/4/13, SS Horizontal Plastic 6/5/13, submersible 6/10/13	
Weather	various		Static DTW (ft below TOC):	10, 38	
Well Screen Length (ft)	SFA, (13-18 ft).		Initial DTB (ft below TOC):	21, 56	
Well Condition:	Metal sheet-up cover, 3.1 ft. PVC sheet-up.		Development Process:	Remove minimum of 5 well volumes but no more than 10 well volumes. Goal is 3 consecutive field readings that are stable.	

Date	Time	Vol. Purged (Gal)	Well Casing Volume	Temperature (°C)		pH (S.U.)	Conductivity (mS/cm) ±3%	Turbidity (NTU) ±10%	Comments
				±0.5°C	±0.1 S.U.				
5/30/13	0730	2.0	0.61	Readings not collected. Rebuild on next few readings.					Muddy gray. Muddy gray. Inhib. Surged prior to surge block.
6/4/13	1715	-	-	12, 71	6, 98	1, 50	> 800		Muddy gray w/ fine sand.
↓	1718	3.8	1.15	10, 95	7, 39	1, 56	> 800		Dry @ 5.6 gal. DTW = 19, 32 ft.
↓	1728	5.6	1.17	10, 59	7, 56	1, 43	> 800		DTW = 17, 20 ft. 300m chain w/ SS pump.
6/5/13	1720	7.4	2.25	14, 72	7, 74	1, 58	> 800		
↓	1735	Dry @ 9.0 gal.	-	-	-	-	-		
6/10/13	1120	9.8	3.0	13, 96	6, 22	1, 54	600		DTW = 10, 42 ft. Plastic submersible
↓	1126	11, 75	Dry @ 11, 75 gal.	-	-	-	-		
↓	1257	Start Pump	-	-	-	-	-		
↓	1302	13.2	4.0	13, 83	7, 18	1, 49	> 800		Muddy gray.
↓	1305	13.5	-	-	-	-	-		
↓	1803	14.0	4.3	14, 12	7, 43	1, 54	230		DTW = 20, 45 ft. Dry @ 13.5 gal.
↓	1811	15.5	-	-	-	-	-		
↓	6/11/13	1159	Start Pump	-	-	-	-		
↓	1201	16.5	5.0	13, 11	7, 42	1, 52	303		DTW = 18, 20 ft. Plastic submersible

Developer's Name: 1205

18.0 11.83 7.32 1.51

Developer's Signature:

> 800

DTW = 20, 45 ft. (top of pump), dry.

Well ID	MN-6		Water Level Meter:	See Page 2					
Well Diameter	2"		Water Quality Meter:	See Page 2					
Date	See Page 2		Calibration Date/Time:	See Page 2					
Location	see map		Calibration Standards (pH/Conduct/turbidity):	See Page 2					
Personnel	see below		Purge Method (Pump Type / Baller):	See Page 2					
Weather	various		Static DTW (ft below TOC):	10,38					
Well Screen Length (ft)	SR (13-18 ft)		Initial DTB (ft below TOC):	21,56					
Well Condition:	skel shakedown 3.1 ft, PVC shakedown		Development Process: Remove minimum of 5 well volumes but no more than 10 well volumes. Goal is 3 consecutive field readings that are stable.	Final DTB (ft below TOC): 21,56					
Well Purging Record									
Date	Time	Vol. Purged (Gal)	Well Casing Volume	Temperature (°C) ± 0.5°C	pH (S.U.) ± 0.1 S.U.	Conductivity (mS/cm) ± 3%	Turbidity (NTU) ± 10%	Comments	
6/11/13	1541	1838 97	6 Pump	—	—	—	—	DTW = 15.68 ft.	
	1838	97	Pump	—	—	—	—	DTW = 13,73 ft.	
	1842	19.8	6	14.61	7.25	1.49	>800	DTW = 20.25, cloudy brown	
	1845	20.3	—	—	—	—	—	DTW = 20.45 ft, (top of pump). Dry	
	1845	20.3	—	—	—	—	—	DTW = 18.28 ft, (top of pump). Dry	
6/12/13	0851	21.7	Start Pump	—	—	—	—	DTW = 19.15 ft, cloudy brown	
	0854	21.7	—	13.53	7.30	1.47	336	DTW = 19.15 ft, cloudy brown	
	0858	23.1 22.05	—	—	—	—	—	DTW = 20.15 ft (top of pump). Dry	
	1526	Start	Pump	—	—	—	—	DTW = 13,78 ft.	
	1530	23.1	7	14.98	7.36	1.45	103	DTW = 18.45 ft.	
	1535	24.1	—	14.28	7.34	1.48	800	DTW = 20.17 ft, cloudy brown	
	1536	24.25	—	—	—	—	—	DTW = 20.45 ft, (top of pump) dry	
	Note: Approx. 15 gal. of drill water used. This amount removed.								

Developer's Name:

Michael Papp

Developer's Signature:

Michael Papp

Water Level Measurements
 Former Whirlpool Park
 Green Springs, Ohio

Well	Date	Measuring Point Elevation (ft. AMSL) ⁽¹⁾	Depth to Water (ft.)	Potentiometric Surface Elevation (ft. AMSL)
MW-1	20-Jun-13	668.52	34.10	634.42
MW-2	20-Jun-13	671.36	26.61	644.75
MW-3	20-Jun-13	669.05	29.96	639.09
MW-4	20-Jun-13	667.95	28.68	639.27
MW-5	20-Jun-13	672.54	16.62	655.92
MW-6	20-Jun-13	657.27	10.87	646.40

ft - feet

amsl - above mean sea level

⁽¹⁾ Based on Top of Casing survey conducted June 2013.

Monitoring Well Purging Data
Former Whirlpool Park
Green Springs, Ohio

Well	Date	Total Volume Purged (gal.)	Turbidity (NTU)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Specific Conductance (µS/cm)	Temp (°C)
MW-1	21-Jun-13	3.0	53.69	7.12	1.60	-22	2,459	12.70
			63.06	7.13	1.40	-27	2,454	12.90
			57.92	7.14	1.26	-29	2,459	13.06
MW-2	21-Jun-13	1.5	73.66	11.88	0.72	-106	3,111	16.41
			72.96	11.89	0.71	-106	3,107	16.30
			63.91	11.88	0.69	-105	3,110	16.30
MW-3	20-Jun-13	1.5	32.31	7.72	7.82	-38	2,066	14.24
			35.94	7.64	1.71	-37	2,073	14.17
			33.38	7.65	1.65	-42	2,062	14.16
MW-4	20-Jun-13	3.50	24.39	7.37	0.83	-71	2,143	13.77
			23.43	7.37	0.76	-71	2,160	13.65
			30.63	7.37	0.74	-69	2,160	13.74
MW-5	20-Jun-13	3.00	114.30	9.71	0.80	-101	1,522	15.05
			114.90	9.62	0.77	-102	1,521	15.27
			126.00	9.52	0.74	-103	1,519	15.21
MW-6	24-Jun-13	1.26	18.58	7.27	2.05	8	1,529	14.82
			21.54	7.26	2.11	3	1,525	14.94
			20.33	7.25	2.18	-1	1,521	14.90

Notes:

Purge data represents the last three consecutive readings collected prior to sampling.
Troll 9500 water quality Instrument w/Optical DO used to collect water quality readings.

Appendix J

Sediment and Surface Water Logs

APPENDIX D - Standard Sampling Form

Ohio EPA Sediment Data Collection Sheet

Project: Whirlpool Park

Collection Date: 5-20-13 Collection Time: 1615

Collector(s): TPO, BE

Weather Conditions: 85°, Sunny

Sample Location Description (Provide Diagram of Sampling Location(s) on opposite Side) :

Waterbody Name: Flag Run River Mile Location: _____

Latitude: _____ Longitude: _____

Sample Site Description: SW-1 / SED-1

Ambient Site Information (water):

Conductivity 2388 ^{us/cm} micro Dissolved Oxygen 11.37 pH 7.50

Temperature 15.67 C Current Velocity 0.53 ft/sec 0.53 m/sec

Sediment Collection Information:

Water Depth Above Sample: ~~11~~ 6" Sediment Sample Depth: _____

Collection Device: Scoop _____ Eckman Dredge _____ Corer X Other _____



Sample Type: Grab X Composite: _____

Sample Replicate Collected? YES or NO Sample Duplicate Collected? YES or NO

Replicate ID/Name: _____ Duplicate ID/Name: _____

Sample Information:

Sediment pH (undisturbed) _____ Sediment pH (post-homogenization) _____

Color (Munsell Soil Color Chart Number): 10YR 2/3

Texture (particle size description): _____

Odor: _____

Additional Comments: sample time: 1615

- Sand** - Particles 0.06-2.0 mm in diameter, possessing a gritty texture when rubbed between fingers. Loose materials (not cohesive) that often cannot be molded into shapes (non-plastic).
- Silt** - Particles 0.004-0.06 mm in diameter, generally fine material possessing a greasy or smooth, talc-like feel when rubbed between fingers. Non-plastic and not cohesive.
- Clay** - Particles less than 0.004 mm in diameter, which forms a dense, gummy surface that is difficult to penetrate with tools (hardpan). Clay is both plastic and cohesive.
- Marl** - Calcium carbonate, usually greyish-white, often containing fragments of mollusc shells.
- Detritus** - Dead, unconsolidated organic material including sticks, wood, leaves, and other partially decayed coarse plant material.
- Peat** - Partially decomposed plant materials characterized by an acidic pH; parts of plants such as Sphagnum moss sometimes visible.
- Muck** - Black, extremely fine, flocculant material composed of completely decomposed organic material (excluding sewage).
- Sludge** - Organic matter that is decidedly of human or animal origin.

APPENDIX D STANDARD SAMPLING FORM

APPENDIX D - Standard Sampling Form

Ohio EPA Sediment Data Collection Sheet

Project: Whirlpool Park

Collection Date: 5-21-19 Collection Time: 0900

Collector(s): TPO, BSE

Weather Conditions: 80°, SUNNY

Sample Location Description (Provide Diagram of Sampling Location(s) on opposite Side) :

Waterbody Name: Flng Run River Mile Location: _____

Latitude: _____ Longitude: _____

Sample Site Description: SW-2 / SED-2

Ambient Site Information (water):

Conductivity 2339 Dissolved Oxygen 6.72 pH 7.54

Temperature 13.19 Current Velocity 1.84 ft/sec ORP 160

Sediment Collection Information:

Water Depth Above Sample: 1' Sediment Sample Depth: 10"

Collection Device: Scoop _____ Eckman Dredge _____ Corer Other _____



Sample Type: Grab Composite: _____

Sample Replicate Collected? YES or NO Sample Duplicate Collected? YES or NO

Replicate ID/Name: _____ Duplicate ID/Name: _____

Sample Information:

Sediment pH (undisturbed) _____ Sediment pH (post-homogenization) _____

Color (Munsell Soil Color Chart Number): 5Y 2.5/1

Texture (particle size description): _____

Odor: Septic

Additional Comments: H₂O sample collected @ 0838

- Sand** - Particles 0.06-2.0 mm in diameter, possessing a gritty texture when rubbed between fingers. Loose materials (not cohesive) that often cannot be molded into shapes (non-plastic).
- Silt** - Particles 0.004-0.06 mm in diameter, generally fine material possessing a greasy or smooth, talc-like feel when rubbed between fingers. Non-plastic and not cohesive.
- Clay** - Particles less than 0.004 mm in diameter, which forms a dense, gummy surface that is difficult to penetrate with tools (hardpan). Clay is both plastic and cohesive.
- Marl** - Calcium carbonate, usually greyish-white, often containing fragments of mollusc shells.
- Detritus** - Dead, unconsolidated organic material including sticks, wood, leaves, and other partially decayed coarse plant material.
- Peat** - Partially decomposed plant materials characterized by an acidic pH; parts of plants such as Sphagnum moss sometimes visible.
- Muck** - Black, extremely fine, flocculant material composed of completely decomposed organic material (excluding sewage).
- Sludge** - Organic matter that is decidedly of human or animal origin.

APPENDIX D STANDARD SAMPLING FORM

APPENDIX D - Standard Sampling Form

Ohio EPA Sediment Data Collection Sheet

Project: Whirlpool Park
Collection Date: 5-21-13 Collection Time: N/A
Collector(s): TPO, BE
Weather Conditions: 80°, Sunny

Sample Location Description (Provide Diagram of Sampling Location(s) on opposite Side) :

Waterbody Name: Flag Run River Mile Location: _____
Latitude: _____ Longitude: _____
Sample Site Description: SW-3

Ambient Site Information (water):

Conductivity 2323 Dissolved Oxygen 7.19 mg/L pH 7.63
Temperature 13.49 Current Velocity 0.88 ft/sec 0.22-1.69, 3

Sediment Collection Information:

Water Depth Above Sample: _____ Sediment Sample Depth: _____
Collection Device: Scoop _____ Eckman Dredge _____ Corer Other _____



Sample Type: Grab _____ Composite: _____
Sample Replicate Collected? YES or NO Sample Duplicate Collected? YES or NO
Replicate ID/Name: _____ Duplicate ID/Name: _____

Sample Information:

Sediment pH (undisturbed) _____ Sediment pH (post-homogenization) _____
Color (Munsell Soil Color Chart Number): _____
Texture (particle size description): _____
Odor: _____
Additional Comments: H₂O sample collected @ 1005

- Sand** - Particles 0.06-2.0 mm in diameter, possessing a gritty texture when rubbed between fingers. Loose materials (not cohesive) that often cannot be molded into shapes (non-plastic).
- Silt** - Particles 0.004-0.06 mm in diameter, generally fine material possessing a greasy or smooth, talc-like feel when rubbed between fingers. Non-plastic and not cohesive.
- Clay** - Particles less than 0.004 mm in diameter, which forms a dense, gummy surface that is difficult to penetrate with tools (hardpan). Clay is both plastic and cohesive.
- Marl** - Calcium carbonate, usually greyish-white, often containing fragments of mollusc shells.
- Detritus** - Dead, unconsolidated organic material including sticks, wood, leaves, and other partially decayed coarse plant material.
- Peat** - Partially decomposed plant materials characterized by an acidic pH; parts of plants such as Sphagnum moss sometimes visible.
- Muck** - Black, extremely fine, flocculant material composed of completely decomposed organic material (excluding sewage).
- Sludge** - Organic matter that is decidedly of human or animal origin.

NO SOIL/SEDIMENT
Collected on 5-21-13, 6 attempts, not enough recovery

APPENDIX D STANDARD SAMPLING FORM

APPENDIX D - Standard Sampling Form

Ohio EPA Sediment Data Collection Sheet

Project: Whirlpool Park
Collection Date: 5-22-13 Collection Time: 0835
Collector(s): TPO, BE
Weather Conditions: 75°, Overcast

Sample Location Description (Provide Diagram of Sampling Location(s) on opposite Side):

Waterbody Name: Fing Run River Mile Location: _____
Latitude: _____ Longitude: _____
Sample Site Description: SED-4 / SW-4

Ambient Site Information (water):

Conductivity 1782 Dissolved Oxygen 5.50 pH 7.40
Temperature 12.86 Current Velocity 0.29 ft/s ORP = 58.1

Sediment Collection Information:

Water Depth Above Sample: 1' Sediment Sample Depth: 8"
Collection Device: Scoop _____ Eckman Dredge _____ Corer Other _____



Sample Type: Grab Composite: _____
Sample Replicate Collected? YES or NO Sample Duplicate Collected? YES or NO
Replicate ID/Name: _____ Duplicate ID/Name: _____

Sample Information:

Sediment pH (undisturbed) _____ Sediment pH (post-homogenization) _____
Color (Munsell Soil Color Chart Number): 10y 4/4
Texture (particle size description): Till: light brown, stiff, lens clay
Odor: _____

Additional Comments: H₂O sample collected @ 0810 (SW-4) ms/msb collected

- Sand** - Particles 0.06-2.0 mm in diameter, possessing a gritty texture when rubbed between fingers. Loose materials (not cohesive) that often cannot be molded into shapes (non-plastic).
- Silt** - Particles 0.004-0.06 mm in diameter, generally fine material possessing a greasy or smooth, talc-like feel when rubbed between fingers. Non-plastic and not cohesive.
- Clay** - Particles less than 0.004 mm in diameter, which forms a dense, gummy surface that is difficult to penetrate with tools (hardpan). Clay is both plastic and cohesive.
- Marl** - Calcium carbonate, usually greyish-white, often containing fragments of mollusc shells.
- Detritus** - Dead, unconsolidated organic material including sticks, wood, leaves, and other partially decayed coarse plant material.
- Peat** - Partially decomposed plant materials characterized by an acidic pH; parts of plants such as Sphagnum moss sometimes visible.
- Muck** - Black, extremely fine, flocculant material composed of completely decomposed organic material (excluding sewage).
- Sludge** - Organic matter that is decidedly of human or animal origin.

APPENDIX D STANDARD SAMPLING FORM

APPENDIX D - Standard Sampling Form

Ohio EPA Sediment Data Collection Sheet

Project: Whirlpool Park
 Collection Date: 5-21-13 Collection Time: 1230
 Collector(s): TPO, BE
 Weather Conditions: 85°, Sunny

Sample Location Description (Provide Diagram of Sampling Location(s) on opposite Side) :

Waterbody Name: EAST POND River Mile Location: _____
 Latitude: _____ Longitude: _____
 Sample Site Description: SW-5 / SED-5

Ambient Site Information (water):

Conductivity 1535 Dissolved Oxygen 7.41 pH 8.12
 Temperature 19.25 C Current Velocity 0.12 ft/sec OR 146.5

Sediment Collection Information:

Water Depth Above Sample: _____ Sediment Sample Depth: _____
 Collection Device: Scoop _____ Eckman Dredge _____ Corer _____ Other _____



Sample Type: Grab Composite: _____
 Sample Replicate Collected? YES or NO Sample Duplicate Collected? YES or NO
 Replicate ID/Name: _____ Duplicate ID/Name: _____

Sample Information:

Sediment pH (undisturbed) _____ Sediment pH (post-homogenization) _____
 Color (Munsell Soil Color Chart Number): 10YR 4/6
 Texture (particle size description): clay, lean, brown, med. stiff (not sediment)
 Odor: —
 Additional Comments: H₂O sample collected @ 1210

- Sand** - Particles 0.06-2.0 mm in diameter, possessing a gritty texture when rubbed between fingers. Loose materials (not cohesive) that often cannot be molded into shapes (non-plastic).
- Silt** - Particles 0.004-0.06 mm in diameter, generally fine material possessing a greasy or smooth, talc-like feel when rubbed between fingers. Non-plastic and not cohesive.
- Clay** - Particles less than 0.004 mm in diameter, which forms a dense, gummy surface that is difficult to penetrate with tools (hardpan). Clay is both plastic and cohesive.
- Marl** - Calcium carbonate, usually greyish-white, often containing fragments of mollusc shells.
- Detritus** - Dead, unconsolidated organic material including sticks, wood, leaves, and other partially decayed coarse plant material.
- Peat** - Partially decomposed plant materials characterized by an acidic pH; parts of plants such as Sphagnum moss sometimes visible.
- Muck** - Black, extremely fine, flocculant material composed of completely decomposed organic material (excluding sewage).
- Sludge** - Organic matter that is decidedly of human or animal origin.

SED-6 / ~~SC-6~~

APPENDIX D - Standard Sampling Form

Ohio EPA Sediment Data Collection Sheet

Project: Whirlpool Park
Collection Date: 5-28-13 Collection Time: 1815
Collector(s): TPO, BE
Weather Conditions: 80°, Sunny

Sample Location Description (Provide Diagram of Sampling Location(s) on opposite Side) :

Waterbody Name: old Raceway River Mile Location: _____
Latitude: _____ Longitude: _____
Sample Site Description: SED-6

Ambient Site Information (water):

Conductivity N/A no water Dissolved Oxygen _____ pH _____
Temperature _____ Current Velocity _____

Sediment Collection Information:

Water Depth Above Sample: N/A no water Sediment Sample Depth: _____
Collection Device: Scoop _____ Eckman Dredge _____ Corer _____ Other _____



Sample Type: Grab Composite: _____
Sample Replicate Collected? YES or Sample Duplicate Collected? YES or NO
Replicate ID/Name: _____ Duplicate ID/Name: SED-6B-0001

Sample Information:

Sediment pH (undisturbed) _____ Sediment pH (post-homogenization) _____
Color (Munsell Soil Color Chart Number): 5Y 2.5/1
Texture (particle size description): muck
Odor: Swampy odor
Additional Comments: No water in location to sample

- Sand** - Particles 0.06-2.0 mm in diameter, possessing a gritty texture when rubbed between fingers. Loose materials (not cohesive) that often cannot be molded into shapes (non-plastic).
- Silt** - Particles 0.004-0.06 mm in diameter, generally fine material possessing a greasy or smooth, talc-like feel when rubbed between fingers. Non-plastic and not cohesive.
- Clay** - Particles less than 0.004 mm in diameter, which forms a dense, gummy surface that is difficult to penetrate with tools (hardpan). Clay is both plastic and cohesive.
- Marl** - Calcium carbonate, usually greyish-white, often containing fragments of mollusc shells.
- Detritus** - Dead, unconsolidated organic material including sticks, wood, leaves, and other partially decayed coarse plant material.
- Peat** - Partially decomposed plant materials characterized by an acidic pH; parts of plants such as Sphagnum moss sometimes visible.
- Muck** - Black, extremely fine, flocculent material composed of completely decomposed organic material (excluding sewage).
- Sludge** - Organic matter that is decidedly of human or animal origin.

APPENDIX D STANDARD SAMPLING FORM

APPENDIX D - Standard Sampling Form

Ohio EPA Sediment Data Collection Sheet

Project: Whirlpool Park
 Collection Date: 5-21-13 Collection Time: 1645 (H₂O)
 Collector(s): TPO, BE
 Weather Conditions: 80°, Sunny

Sample Location Description (Provide Diagram of Sampling Location(s) on opposite Side):

Waterbody Name: Old Mill Raceway River Mile Location: _____
 Latitude: _____ Longitude: _____
 Sample Site Description: SW-7 / SED-7

Ambient Site Information (water):

Conductivity 459 Dissolved Oxygen 2.58 pH 7.73
 Temperature 19.40 Current Velocity _____ ORP: -155.6

Sediment Collection Information:

Water Depth Above Sample: _____ Sediment Sample Depth: _____
 Collection Device: Scoop _____ Eckman Dredge _____ Corer _____ Other _____



Sample Type: Grab Composite: _____
 Sample Replicate Collected? YES or NO Sample Duplicate Collected? YES or NO
 Replicate ID/Name: _____ Duplicate ID/Name: _____

Sample Information:

Sediment pH (undisturbed) _____ Sediment pH (post-homogenization) _____
 Color (Munsell Soil Color Chart Number): _____
 Texture (particle size description): _____
 Odor: septic
 Additional Comments: Sediment sample collected @ 1715

- Sand** - Particles 0.06-2.0 mm in diameter, possessing a gritty texture when rubbed between fingers. Loose materials (not cohesive) that often cannot be molded into shapes (non-plastic).
- Silt** - Particles 0.004-0.06 mm in diameter, generally fine material possessing a greasy or smooth, talc-like feel when rubbed between fingers. Non-plastic and not cohesive.
- Clay** - Particles less than 0.004 mm in diameter, which forms a dense, gummy surface that is difficult to penetrate with tools (hardpan). Clay is both plastic and cohesive.
- Marl** - Calcium carbonate, usually greyish-white, often containing fragments of mollusc shells.
- Detritus** - Dead, unconsolidated organic material including sticks, wood, leaves, and other partially decayed coarse plant material.
- Peat** - Partially decomposed plant materials characterized by an acidic pH; parts of plants such as Sphagnum moss sometimes visible.
- Muck** - Black, extremely fine, flocculant material composed of completely decomposed organic material (excluding sewage).
- Sludge** - Organic matter that is decidedly of human or animal origin.

APPENDIX D - Standard Sampling Form

Ohio EPA Sediment Data Collection Sheet

Project: Whirlpool Park
Collection Date: 5-21-13 Collection Time: 1510 (H2O)
Collector(s): TPO, BE
Weather Conditions: 80, sunny

Sample Location Description (Provide Diagram of Sampling Location(s) on opposite Side) :

Waterbody Name: _____ River Mile Location: _____
Latitude: _____ Longitude: _____
Sample Site Description: SW-8 (SED-8)

Ambient Site Information (water):

Conductivity 1438 Dissolved Oxygen 12.99 pH 8.38
Temperature 14.56 Current Velocity - ORP: 132.6

Sediment Collection Information:

Water Depth Above Sample: - Sediment Sample Depth: 10"
Collection Device: Scoop _____ Eckman Dredge _____ Corer X Other _____



Sample Type: Grab X Composite: _____
Sample Replicate Collected? YES or NO Sample Duplicate Collected? YES or NO
Replicate ID/Name: _____ Duplicate ID/Name: _____

Sample Information:

Sediment pH (undisturbed) _____ Sediment pH (post-homogenization) _____
Color (Munsell Soil Color Chart Number): _____
Texture (particle size description): _____
Odor: Septic
Additional Comments: Sediment sample collected @ 1520

- Sand** - Particles 0.06-2.0 mm in diameter, possessing a gritty texture when rubbed between fingers. Loose materials (not cohesive) that often cannot be molded into shapes (non-plastic).
- Silt** - Particles 0.004-0.06 mm in diameter, generally fine material possessing a greasy or smooth, talc-like feel when rubbed between fingers. Non-plastic and not cohesive.
- Clay** - Particles less than 0.004 mm in diameter, which forms a dense, gummy surface that is difficult to penetrate with tools (hardpan). Clay is both plastic and cohesive.
- Marl** - Calcium carbonate, usually greyish-white, often containing fragments of mollusc shells.
- Detritus** - Dead, unconsolidated organic material including sticks, wood, leaves, and other partially decayed coarse plant material.
- Peat** - Partially decomposed plant materials characterized by an acidic pH; parts of plants such as Sphagnum moss sometimes visible.
- Muck** - Black, extremely fine, flocculant material composed of completely decomposed organic material (excluding sewage).
- Sludge** - Organic matter that is decidedly of human or animal origin.

APPENDIX D STANDARD SAMPLING FORM

APPENDIX D - Standard Sampling Form

APPENDIX D STANDARD SAMPLING FORM

Ohio EPA Sediment Data Collection Sheet

Project: Whirlpool Park (Farmer)
Collection Date: 6/24/13 Collection Time: 1223
Collector(s): Mike PAPP
Weather Conditions: Sunny, 72°F

Sample Location Description (Provide Diagram of Sampling Location(s) on opposite Side) :
Waterbody Name: Storm Drain Manhole River Mile Location: NA
Latitude: _____ Longitude: _____
Sample Site Description: SED-9 / SW-9

Ambient Site Information (water):
Conductivity 1580 Dissolved Oxygen 7.45mg/L pH 7.49
Temperature 17.72°C Current Velocity Not Collected ORP: -

Sediment Collection Information:
Water Depth Above Sample: no sediment Sediment Sample Depth: no sediment
Collection Device: Scoop NA Eckman Dredge NA Corer NA Other NA



Sample Type: Grab Composite:
Sample Replicate Collected? YES or NO Sample Duplicate Collected? YES or NO
Replicate ID/Name: _____ Duplicate ID/Name: _____

Sample Information:
Sediment pH (undisturbed) NA Sediment pH (post-homogenization) NA
Color (Munsell Soil Color Chart Number): NA
Texture (particle size description): NA
Odor: NA

Additional Comments: No sediment at this location - Surface Water Only.

- Sand** - Particles 0.06-2.0 mm in diameter, possessing a gritty texture when rubbed between fingers. Loose materials (not cohesive) that often cannot be molded into shapes (non-plastic).
- Silt** - Particles 0.004-0.06 mm in diameter, generally fine material possessing a greasy or smooth, talc-like feel when rubbed between fingers. Non-plastic and not cohesive.
- Clay** - Particles less than 0.004 mm in diameter, which forms a dense, gummy surface that is difficult to penetrate with tools (hardpan). Clay is both plastic and cohesive.
- Marl** - Calcium carbonate, usually greyish-white, often containing fragments of mollusc shells.
- Detritus** - Dead, unconsolidated organic material including sticks, wood, leaves, and other partially decayed coarse plant material.
- Peat** - Partially decomposed plant materials characterized by an acidic pH; parts of plants such as Sphagnum moss sometimes visible.
- Muck** - Black, extremely fine, flocculant material composed of completely decomposed organic material (excluding sewage).
- Sludge** - Organic matter that is decidedly of human or animal origin.

Appendix K

Summary of Analytical Results

Former Whirlpool Park
 Summary of Analytical Results
 Soil Borings PCBs

AECOM			
		Analytical Parameter	Total PCBs ²
		Analytical Method	SW8082
		Unit	mg/kg
		Screening Criterion ¹	1.0
Field Sample ID	Sampling Date	Analytical Depth	
S1-0002	20-May-2013	0-2	ND
S1-0204	20-May-2013	2-4	ND
S1-0406	20-May-2013	4-6	ND
S1-0607.8	20-May-2013	6-7.8	ND
S2-0002	20-May-2013	0-2	ND
S2-0204	20-May-2013	2-4	ND
S2-0406	20-May-2013	4-6	ND
S2-0608	20-May-2013	6-8	ND
S3-0002	20-May-2013	0-2	ND
S3-0204	20-May-2013	2-4	ND
S3-0406	20-May-2013	4-6	ND
S3-0608	20-May-2013	6-8	ND
S3-0810	20-May-2013	8-10	ND
S4-0002	20-May-2013	0-2	ND
S4-0204	20-May-2013	2-4	ND
S4-0406	20-May-2013	4-6	ND
S4-0608	20-May-2013	6-8	ND
S5-0005	20-May-2013	0-5	ND
S5-0506	20-May-2013	5-6	ND
S5-0608	20-May-2013	6-8	ND
S5-0810	20-May-2013	8-10	ND
S6-0002	21-May-2013	0-2	ND
S6-0204	21-May-2013	2-4	ND
S6-0406	21-May-2013	4-6	ND
S6-0608	21-May-2013	6-8	ND
S6-0810	21-May-2013	8-10	ND
S7-0005	21-May-2013	0-5	ND
S7-0506	21-May-2013	5-6	ND
S7-0608	21-May-2013	6-8	ND
S7-0810	21-May-2013	8-10	ND
S8-0002	21-May-2013	0-2	0.73³
S8-0204	21-May-2013	2-4	ND
S8-0204-B	21-May-2013	2-4	ND
S8-046.8	21-May-2013	4-6.8	ND
S9-0002	21-May-2013	0-2	ND
S9-0204	21-May-2013	2-4	ND
S9-0406	21-May-2013	4-6	ND
S9-0608	21-May-2013	6-8	ND
S9-0810	21-May-2013	8-10	ND
S9-1012	21-May-2013	10-12	ND
S9-1215	21-May-2013	12-15	ND
S10-0005	21-May-2013	0-5	ND
S10-0506	21-May-2013	5-6	ND
S10-0608	21-May-2013	6-8	ND
S10-0810	21-May-2013	8-10	ND

Former Whirlpool Park
 Summary of Analytical Results
 Soil Borings PCBs

AECOM			
		Analytical Parameter	Total PCBs ²
		Analytical Method	SW8082
		Unit	mg/kg
		Screening Criterion ¹	1.0
Field Sample ID	Sampling Date	Analytical Depth	
S11-0001	30-May-2013	0-1	ND
S11-0102	30-May-2013	1-2	ND
S12-0001	30-May-2013	0-1	ND
S12-0102	30-May-2013	1-2	ND
S13-0002	20-May-2013	0-2	ND
S13-0204	20-May-2013	2-4	ND
S13-0406	20-May-2013	4-6	ND
S13-067.5	20-May-2013	6-7.5	ND
S13-0810	20-May-2013	8-10	ND
S14-0001	30-May-2013	0-1	ND
S14-0102	30-May-2013	1-2	ND
S15-0001	30-May-2013	0-1	ND
S15-0102	30-May-2013	1-2	ND
S16-0001	30-May-2013	0-1	ND
S16-0102	30-May-2013	1-2	0.15
S17-0002	21-May-2013	0-2	ND
S17-0204	21-May-2013	2-4	ND
S17-0406	21-May-2013	4-6	ND
S17-0608	21-May-2013	6-8	ND
S17-0810	21-May-2013	8-10	ND
S18-0001	30-May-2013	0-1	ND
S18-0102	30-May-2013	1-2	ND
S19-0001	30-May-2013	0-1	ND
S19-0001-B	30-May-2013	0-1	ND
S19-0304	30-May-2013	3-4	ND
S20-0002	21-May-2013	0-2	ND
S20-0204	21-May-2013	2-4	ND
S20-0406	21-May-2013	4-6	ND
S20-0608	21-May-2013	6-8	ND
S20-0810	21-May-2013	8-10	ND
S21-0002	22-May-2013	0-2	ND
S21-0204	22-May-2013	2-4	ND
S21-0406	22-May-2013	4-6	ND
S21-0608	22-May-2013	6-8	ND
S21-0810	22-May-2013	8-10	ND
S22-0002	22-May-2013	0-2	ND
S22-0204	22-May-2013	2-4	ND
S22-0406	22-May-2013	4-6	ND
S22-0608	22-May-2013	6-8	ND
S22-0810	22-May-2013	8-10	ND
S23-0005	21-May-2013	0-5	ND
S23-0506	21-May-2013	5-6	ND
S23-0608	21-May-2013	6-8	ND
S23-0810	21-May-2013	8-10	ND
S24-0002	22-May-2013	0-2	ND

Former Whirlpool Park
 Summary of Analytical Results
 Soil Borings PCBs

AECOM			
Analytical Parameter			Total PCBs ²
Analytical Method			SW8082
Unit			mg/kg
Screening Criterion ¹			1.0
Field Sample ID	Sampling Date	Analytical Depth	
S24-0204	22-May-2013	2-4	ND
S24-0406	22-May-2013	4-6	ND
S24-0608	22-May-2013	6-8	ND
S24-0810	22-May-2013	8-10	ND
S25-0002	22-May-2013	0-2	ND
S25-0002-B	22-May-2013	0-2	0.46
S25-0204	22-May-2013	2-4	ND
S25-0406	22-May-2013	4-6	ND
S25-0608	22-May-2013	6-8	ND
S25-0810	22-May-2013	8-10	ND
S26-0002	22-May-2013	0-2	0.21
S26-0204	22-May-2013	2-4	ND
S26-0406	22-May-2013	4-6	ND
S26-0608	22-May-2013	6-8	ND
S26-0811	22-May-2013	8-11	ND
S27-0001	30-May-2013	0-1	1.1
S27-0102	30-May-2013	1-2	ND
S28-0002	22-May-2013	0-2	ND
S28-0204	22-May-2013	2-4	ND
S28-0406	22-May-2013	4-6	ND
S28-0608	22-May-2013	6-8	ND
S28-0810	22-May-2013	8-10	ND
S29-0002	22-May-2013	0-2	ND
S29-0204	22-May-2013	2-4	ND
S29-0405	22-May-2013	4-5	ND
S29-0507	22-May-2013	5-7	ND
S29-0709	22-May-2013	7-9	ND
S29-0910	22-May-2013	9-10	ND
S30-0002	22-May-2013	0-2	1.4
S30-0204	22-May-2013	2-4	ND
S30-0405	22-May-2013	4-5	ND
S30-0507	22-May-2013	5-7	ND
S30-0710	22-May-2013	7-10	ND
S31-0002	22-May-2013	0-2	ND
S31-0204	22-May-2013	2-4	2.2
S31-0406	22-May-2013	4-6	120
S31-0608	22-May-2013	6-8	1700
S31-0608-B	22-May-2013	6-8	860
S31-0810	22-May-2013	8-10	980
S31-1012	22-May-2013	10-12	0.13
S31-1214	22-May-2013	12-14	ND
S31-1417	22-May-2013	14-17	ND
S32-0002	21-May-2013	0-2	ND
S32-0204	21-May-2013	2-4	ND
S32-0406	21-May-2013	4-6	ND

Former Whirlpool Park
 Summary of Analytical Results
 Soil Borings PCBs

AECOM			
Analytical Parameter			Total PCBs ²
Analytical Method			SW8082
Unit			mg/kg
Screening Criterion ¹			1.0
Field Sample ID	Sampling Date	Analytical Depth	
S32-0406-B	21-May-2013	4-6	ND
S32-0608	21-May-2013	6-8	ND
S32-0810	21-May-2013	8-10	ND
S33-0002	24-May-2013	0-2	ND
S33-0204	24-May-2013	2-4	ND
S33-0406	24-May-2013	4-6	ND
S33-0608	24-May-2013	6-8	ND
S33-0810	24-May-2013	8-10	ND
S34-0002	23-May-2013	0-2	ND
S34-0204	23-May-2013	2-4	ND
S34-0406	23-May-2013	4-6	ND
S34-0608	23-May-2013	6-8	ND
S34-0810	23-May-2013	8-10	ND
S35-0005	22-May-2013	0-5	1300
S35-0507	22-May-2013	5-7	390
S35-0709	22-May-2013	7-9	2100
S35-0911	22-May-2013	9-11	22
S35-1113	22-May-2013	11-13	0.14
S35-1315	22-May-2013	13-15	0.59
S35-1517.5	22-May-2013	15-17.5	0.41
S36-0002	21-May-2013	0-2	ND
S36-0204	21-May-2013	2-4	ND
S36-0406	21-May-2013	4-6	ND
S36-0608	21-May-2013	6-8	ND
S36-0810	21-May-2013	8-10	ND
S37-0002	23-May-2013	0-2	0.91
S37-0204	23-May-2013	2-4	ND
S37-0406	23-May-2013	4-6	ND
S37-0608	23-May-2013	6-8	ND
S37-0810	23-May-2013	8-10	ND
S38-0002	23-May-2013	0-2	ND
S38-0204	23-May-2013	2-4	ND
S38-0406	23-May-2013	4-6	ND
S38-0608	23-May-2013	6-8	ND
S38-0810	23-May-2013	8-10	ND
S39-0002	23-May-2013	0-2	ND
S39-0204	23-May-2013	2-4	0.62
S39-0406	23-May-2013	4-6	960
S39-0608	23-May-2013	6-8	430
S39-0810	23-May-2013	8-10	1800
S39-1012	23-May-2013	10-12	0.49
S39-1214	23-May-2013	12-14	ND
S39-1416	23-May-2013	14-16	9.9
S39-1617	23-May-2013	16-17	ND
S40-0002	23-May-2013	0-2	ND

Former Whirlpool Park
 Summary of Analytical Results
 Soil Borings PCBs

AECOM			
		Analytical Parameter	Total PCBs ²
		Analytical Method	SW8082
		Unit	mg/kg
		Screening Criterion ¹	1.0
Field Sample ID	Sampling Date	Analytical Depth	
S40-0204	23-May-2013	2-4	ND
S40-0406	23-May-2013	4-6	ND
S40-0608	23-May-2013	6-8	ND
S40-0810	23-May-2013	8-10	ND
S41-0002	23-May-2013	0-2	ND
S41-0204	23-May-2013	2-4	ND
S41-0406	23-May-2013	4-6	ND
S41-0608	23-May-2013	6-8	ND
S41-0809	23-May-2013	8-9	0.15
S42-0002	23-May-2013	0-2	1.5
S42-0204	23-May-2013	2-4	140
S42-0406	23-May-2013	4-6	0.63
S42-0608	23-May-2013	6-8	0.6
S42-0810	23-May-2013	8-10	0.31
S43-0002	23-May-2013	0-2	3.6
S43-0204	23-May-2013	2-4	31
S43-0406	23-May-2013	4-6	0.17
S43-0608	23-May-2013	6-8	ND
S43-0810	23-May-2013	8-10	ND
S43-1012	23-May-2013	10-12	0.12
S44-0002	24-May-2013	0-2	ND
S44-0204	24-May-2013	2-4	ND
S44-0406	24-May-2013	4-6	ND
S44-0608	24-May-2013	6-8	ND
S44-0810	24-May-2013	8-10	ND
S45-0002	23-May-2013	0-2	1.6
S45-0204	23-May-2013	2-4	3.4
S45-0406	23-May-2013	4-6	ND
S45-0608	23-May-2013	6-8	ND
S45-0810	23-May-2013	8-10	ND
S45-1012.5	23-May-2013	10-12.5	0.23
S46-0002	23-May-2013	0-2	0.11
S46-0204	23-May-2013	2-4	ND
S46-0406	23-May-2013	4-6	560
S46-0608	23-May-2013	6-8	35
S46-0810	23-May-2013	8-10	0.71
S46-1012.5	23-May-2013	10-12.5	ND
S47-0002	23-May-2013	0-2	0.23
S47-0204	23-May-2013	2-4	0.19
S47-0406	23-May-2013	4-6	ND
S47-0608	23-May-2013	6-8	ND
S47-0810	23-May-2013	8-10	ND
S47-1012	23-May-2013	10-12	ND
S48-0002	24-May-2013	0-2	ND
S48-0204	24-May-2013	2-4	ND

Former Whirlpool Park
 Summary of Analytical Results
 Soil Borings PCBs

AECOM			
Analytical Parameter			Total PCBs ²
Analytical Method			SW8082
Unit			mg/kg
Screening Criterion ¹			1.0
Field Sample ID	Sampling Date	Analytical Depth	
S48-0406	24-May-2013	4-6	ND
S48-0608	24-May-2013	6-8	ND
S48-0810	24-May-2013	8-10	ND
S49-0002	23-May-2013	0-2	0.97
S49-0204	23-May-2013	2-4	ND
S49-0406	23-May-2013	4-6	ND
S49-0608	23-May-2013	6-8	ND
S49-0810	23-May-2013	8-10	ND
S50-0002	24-May-2013	0-2	ND
S50-0002B	24-May-2013	0-2	ND
S50-0204	24-May-2013	2-4	ND
S50-0406	24-May-2013	4-6	ND
S50-0608	24-May-2013	6-8	ND
S50-0810	24-May-2013	8-10	ND
S51-0002	24-May-2013	0-2	ND
S51-0204	24-May-2013	2-4	ND
S51-0406	24-May-2013	4-6	ND
S51-0608	24-May-2013	6-8	ND
S51-0810	24-May-2013	8-10	ND

Notes:

Bold results exceed laboratory reporting limits.

Bold and highlighted results exceed the screening criteria.

bgs = Below ground surface

ID = Identification

mg/kg = Milligram per kilogram

PCB = Polychlorinated biphenyl

ND = No PCBs detected

U.S. EPA = United States Environmental Protection Agency

1 Screening criteria is TSCA unrestricted-use standard.

2 Only Aroclor 1254 detected.

3 Only Aroclor 1260 detected.

Former Whirlpool Park
 Summary of Analytical Results
 Soil Borings Full Scan Part 1

		AECOM - 2013																
Field Sample ID		S1-0002	S3-0204	S5-0005	S7-0506	S10-0506	S12-0001	S15-0102	S17-0810	S18-0001	S21-0810	S23-0810	S26-0406	S27-0102	S29-0002	S30-0507		
Sampling Date		5/20/2013	5/20/2013	5/20/2013	5/21/2013	5/21/2013	5/30/2013	5/30/2013	5/21/2013	5/30/2013	5/22/2013	5/21/2013	5/22/2013	5/30/2013	5/22/2013	5/22/2013		
Sampling Depth (feet bgs)		0-2	2-4	0-5	5-6	5-6	0-1	1-2	8-10	0-1	8-10	8-10	4-6	1-2	0-2	5-7		
Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result														
SW8151	Dicamba	mg/kg	1800	0.005 U	0.0052 U	0.0051 U	0.0059	0.11 U	0.084 U	0.026 U	0.0053 U	0.0074 U	0.0053 U	0.0053 U	0.0054 U	0.0053 U	0.0054 U	0.0057 U
SW8151	Dichlorprop	mg/kg	NA	0.05 U	0.052 U	0.051 U	0.048 U	1.1 U	0.84 U	0.26 U	0.053 U	0.074 U	0.053 U	0.053 U	0.054 U	0.053 U	0.054 U	0.057 U
SW8151	Dinoseb	mg/kg	61	0.025 U	0.026 U	0.025 U	0.024 U	0.56 U	0.42 U	0.13 U	0.026 U	0.037 U	0.027 U	0.026 U	0.027 U	0.026 U	0.027 U	0.028 U
SW8151	MCPA	mg/kg	31	5 U	5.2 U	5.1 U	4.8 U	110 U	84 U	26 U	5.3 U	7.4 U	5.3 U	5.3 U	5.4 U	5.3 U	5.4 U	5.7 U
SW8151	MCPP	mg/kg	61	5 U	5.2 U	5.1 U	4.8 U	110 U	84 U	26 U	5.3 U	7.4 U	5.3 U	5.3 U	5.4 U	5.3 U	5.4 U	5.7 U
SW8151	Pentachlorophenol	mg/kg	0.89	0.005 U	0.0052 U	0.0051 U	0.0048 U	0.11 U	0.084 U	0.026 U	0.0053 U	0.0074 U	0.0053 U	0.0053 U	0.0054 U	0.0053 U	0.0054 U	0.0057 U

Notes:

Bold results exceed laboratory reporting limits.

Gray highlighted results exceed the USEPA RSL screening criteria.

bgs = Below ground surface

ID = Identification

mg/kg = Milligram per kilogram

NA = Not Available

RSL = Regional Screening Level

SVOC = Semivolatile organic compound

TAL = Target Analyte List

U = Not detected at indicated reporting limit

UH = Not detected at the indicated reporting limit and analyzed outside of holding time

USEPA = United States Environmental Protection Agency

1 USEPA Regional Screening Levels (RSLs) for Residential Soil (November 2012).

2 US Geological Survey, National Geochemical Survey Sandusky County mean average arsenic concentration (April 6, 2012).

Former Whirlpool Park
 Summary of Analytical Results
 Soil Borings Full Scan Part 2

AECOM - 2013

Field Sample ID	S31-0608	S33-0608	S34-0810	S35-0709	S36-0810	S38-0810	S40-0810	S42-0810	S46-0608	S48-0608	S49-0406	S50-0002	S50-0002B
Sampling Date	5/22/2013	5/24/2013	5/23/2013	5/22/2013	5/21/2013	5/23/2013	5/23/2013	5/23/2013	5/23/2013	5/23/2013	5/23/2013	5/24/2013	5/24/2013
Sampling Depth (feet bgs)	6-8	6-8	8-10	7-9	8-10	8-10	8-10	8-10	6-8	6-8	4-6	0-2	0-2

Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Results												
Pesticides and Herbicides																
SW8081A	4,4-DDD	mg/kg	2	~	0.0018 U	0.0018 U	0.077 U	0.0022 U	0.0019 U	0.0019 U	0.0019 U	0.039 U	0.0019 U	0.0025 U	0.002 U	0.002 U
SW8081A	4,4-DDE	mg/kg	1.4	~	0.0018 U	0.0018 U	0.077 U	0.0022 U	0.0019 U	0.0019 U	0.0019 U	0.039 U	0.0019 U	0.0025 U	0.003	0.0068
SW8081A	4,4-DDT	mg/kg	1.7	~	0.0018 U	0.0018 U	0.077 U	0.0022 U	0.0019 U	0.0019 U	0.0019 U	0.039 U	0.0019 U	0.0025 U	0.002 U	0.0023
SW8081A	Aldrin	mg/kg	0.029	~	0.0018 U	0.0018 U	0.077 U	0.0022 U	0.0019 U	0.0019 U	0.0019 U	0.039 U	0.0019 U	0.0025 U	0.002 U	0.002 U
SW8081A	alpha-BHC	mg/kg	0.077	~	0.0018 U	0.0018 U	0.077 U	0.0022 U	0.0019 U	0.0019 U	0.0019 U	0.039 U	0.0019 U	0.0025 U	0.002 U	0.002 U
SW8081A	alpha-Chlordane	mg/kg	NA	~	0.0018 U	0.0018 U	0.077 U	0.0022 U	0.0019 U	0.0019 U	0.0019 U	0.039 U	0.0019 U	0.0025 U	0.002 U	0.002 U
SW8081A	beta-BHC	mg/kg	0.27	~	0.0018 U	0.0018 U	0.077 U	0.0022 U	0.0019 U	0.0019 U	0.0019 U	0.039 U	0.0019 U	0.0025 U	0.002 U	0.002 U
SW8081A	delta-BHC	mg/kg	NA	~	0.0018 U	0.0018 U	0.077 U	0.0022 U	0.0019 U	0.0019 U	0.0019 U	0.039 U	0.0019 U	0.0025 U	0.002 U	0.002 U
SW8081A	Dieldrin	mg/kg	0.03	~	0.0018 U	0.0018 U	0.077 U	0.0022 U	0.0019 U	0.0019 U	0.0019 U	0.039 U	0.0019 U	0.0025 U	0.002 U	0.002 U
SW8081A	Endosulfan I	mg/kg	NA	~	0.0018 U	0.0018 U	0.077 U	0.0022 U	0.0019 U	0.0019 U	0.0019 U	0.039 U	0.0019 U	0.0025 U	0.002 U	0.002 U
SW8081A	Endosulfan II	mg/kg	NA	~	0.0018 U	0.0018 U	0.077 U	0.0022 U	0.0019 U	0.0019 U	0.0019 U	0.039 U	0.0019 U	0.0025 U	0.002 U	0.002 U
SW8081A	Endosulfan sulfate	mg/kg	NA	~	0.0018 U	0.0018 U	0.077 U	0.0022 U	0.0019 U	0.0019 U	0.0019 U	0.039 U	0.0019 U	0.0025 U	0.002 U	0.002 U
SW8081A	Endrin	mg/kg	18	~	0.0018 U	0.0018 U	0.077 U	0.0022 U	0.0019 U	0.0019 U	0.0019 U	0.039 U	0.0019 U	0.0025 U	0.002 U	0.002 U
SW8081A	Endrin aldehyde	mg/kg	NA	~	0.0018 U	0.0018 U	0.077 U	0.0022 U	0.0019 U	0.0019 U	0.0019 U	0.039 U	0.0019 U	0.0025 U	0.002 U	0.002 U
SW8081A	Endrin ketone	mg/kg	NA	~	0.0018 U	0.0018 U	0.077 U	0.0022 U	0.0019 U	0.0019 U	0.0019 U	0.039 U	0.0019 U	0.0025 U	0.002 U	0.002 U
SW8081A	gamma-BHC (Lindane)	mg/kg	0.52	~	0.0018 U	0.0018 U	0.077 U	0.0022 U	0.0019 U	0.0019 U	0.0019 U	0.039 U	0.0019 U	0.0025 U	0.002 U	0.002 U
SW8081A	gamma-Chlordane	mg/kg	NA	~	0.0018 U	0.0018 U	0.077 U	0.0022 U	0.0019 U	0.0019 U	0.0019 U	0.039 U	0.0019 U	0.0025 U	0.002 U	0.002 U
SW8081A	Heptachlor	mg/kg	0.11	~	0.0018 U	0.0018 U	0.077 U	0.0022 U	0.0019 U	0.0019 U	0.0019 U	0.039 U	0.0019 U	0.0025 U	0.002 U	0.002 U
SW8081A	Heptachlor epoxide	mg/kg	0.053	~	0.0018 U	0.0018 U	0.077 U	0.0022 U	0.0019 U	0.0019 U	0.0019 U	0.039 U	0.0019 U	0.0025 U	0.002 U	0.002 U
SW8081A	Methoxychlor	mg/kg	310	~	0.0018 U	0.0018 U	0.077 U	0.0022 U	0.0019 U	0.0019 U	0.0019 U	0.039 U	0.0019 U	0.0025 U	0.002 U	0.002 U
SW8081A	Toxaphene	mg/kg	0.44	~	0.037 U	0.036 U	1.5 U	0.044 U	0.038 U	0.038 U	0.038 U	0.79 U	0.038 U	0.051 U	0.04 U	0.041 U
SW8151	2,4,5-T	mg/kg	610	~	0.0054 U	0.0052 U	0.18 U	0.0063 U	0.0046 U	0.0044 U	0.0045 U	0.093 U	0.0054 U	0.0061 U	0.0028 U	0.0055 U
SW8151	2,4,5-TP (Silvex)	mg/kg	490	~	0.004 U	0.0039 U	0.13 U	0.0047 U	0.0034 U	0.0033 U	0.0034 U	0.07 U	0.004 U	0.0046 U	0.0021 U	0.0041 U
SW8151	2,4-D	mg/kg	690	~	0.054 U	0.052 U	1.8 U	0.063 U	0.046 U	0.044 U	0.045 U	0.93 U	0.054 U	0.061 U	0.028 U	0.055 U
SW8151	2,4-DB	mg/kg	490	~	0.054 U	0.052 U	1.8 U	0.063 U	0.046 U	0.044 U	0.045 U	0.93 U	0.054 U	0.061 U	0.028 U	0.055 U
SW8151	Dalapon	mg/kg	1800	~	0.13 U	0.13 U	4.4 U	0.16 U	0.12 U	0.11 U	0.11 U	2.3 U	0.14 U	0.15 U	0.07 U	0.14 U
SW8151	Dicamba	mg/kg	1800	~	0.0054 U	0.0052 U	0.18 U	0.0063 U	0.0046 U	0.0044 U	0.0045 U	0.093 U	0.0054 U	0.0061 U	0.0028 U	0.0055 U
SW8151	Dichlorprop	mg/kg	NA	~	0.054 U	0.052 U	1.8 U	0.063 U	0.046 U	0.044 U	0.045 U	0.93 U	0.054 U	0.061 U	0.028 U	0.055 U
SW8151	Dinoseb	mg/kg	61	~	0.027 U	0.026 U	0.88 U	0.031 U	0.023 U	0.022 U	0.022 U	0.46 U	0.027 U	0.031 U	0.014 U	0.028 U
SW8151	MCPA	mg/kg	31	~	5.4 U	5.2 U	180 U	6.3 U	4.6 U	4.4 U	4.5 U	93 U	5.4 U	6.1 U	2.8 U	5.5 U
SW8151	MCPP	mg/kg	61	~	5.4 U	5.2 U	180 U	6.3 U	4.6 U	4.4 U	4.5 U	93 U	5.4 U	6.1 U	2.8 U	5.5 U
SW8151	Pentachlorophenol	mg/kg	0.89	~	0.0054 U	0.0052 U	0.18 U	0.0063 U	0.0046 U	0.0044 U	0.0045 U	0.093 U	0.0054 U	0.0061 U	0.0028 U	0.0055 U

Notes:

Bold results exceed laboratory reporting limits.

Gray highlighted results exceed the USEPA RSL screening criteria.

bgs = Below ground surface

ID = Identification

mg/kg = Milligram per kilogram

~ - Not sampled

NA = Not Available

RSL = Regional Screening Level

SVOC = Semivolatile organic compound

TAL = Target Analyte List

U = Not detected at indicated reporting limit

UH = Not detected at the indicated reporting limit and analyzed outside of holding time

USEPA = United States Environmental Protection Agency

1 USEPA Regional Screening Levels (RSLs) for Residential Soil (November 2012).

2 US Geological Survey, National Geochemical Survey Sandusky County mean average arsenic concentration (April 6, 2012).

Former Whirlpool Park
 Summary of Analytical Results
 Surface Soil

Field Sample ID	SS1-000.5	SS2-000.5	SS3-000.5	SS4-000.5	SS5-000.5	SS6-000.5	SS7-000.5	SS8-000.5	SS8-B-000.5			
Sampling Date	20-May-2013	20-May-2013	20-May-2013	20-May-2013	20-May-2013	20-May-2013	20-May-2013	20-May-2013	20-May-2013			
Sampling Depth (feet bgs)	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5			
Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result								
TAL Metals												
SW6010B	Lead	mg/kg	400	9	18	9	13	12	14	19	11	10
SW7471A	Mercury	mg/kg	10	0.3 U	0.32 U	0.57 U	0.29 U	0.31 U	0.32 U	0.3 U	0.32 U	0.3 U
Asbestos												
TEM Method CARB	Total Asbestos	%	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
PLM Method	Total Asbestos	%	NA	ND	ND	ND	ND	ND	ND	TRACE	ND	ND

Notes:

Bold results exceed laboratory reporting limits.

Gray highlighted results exceed the USEPA RSL screening criteria.

bgs = Below ground surface

ID = Identification

mg/kg = Milligram per kilogram

ND - Not Detected

RSL = Regional Screening Level

TAL = Target Analyte List

U = Not detected at indicated reporting limit

U.S. EPA = United States Environmental Protection Agency

¹ USEPA Regional Screening Levels (RSLs) for Residential Soil (November 2012).

Former Whirlpool Park
 Summary of Analytical Results
 Test Trench Soil

AECOM									
Field Sample ID	TT-1-53013	TT-2-53013	TT-3-53013	TT-4-53013	TT-5-53013	TT-6-53013	TT-7-53013	TT-8*	TT-9-53013
Sampling Date	30-May-2013	30-May-2013	30-May-2013	30-May-2013	30-May-2013	30-May-2013	30-May-2013	NA	30-May-2013
Sampling Depth (feet bgs)	0-3.0	0-2.5	0-2.0	0-2.5	12.5-13	11-11.7	NA	NA	9-10

Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result									
VOCs													
SW8260	1,1,1,2-Tetrachloroethane	mg/kg	1.9	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	1,1,1-Trichloroethane	mg/kg	8700	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	1,1,2,2-Tetrachloroethane	mg/kg	0.56	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	1,1,2-Trichloroethane	mg/kg	1.1	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	1,1-Dichloroethane	mg/kg	3.3	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	1,1-Dichloroethene	mg/kg	240	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	1,1-Dichloropropene	mg/kg	NA	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	1,2,3-Trichlorobenzene	mg/kg	49	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	1,2,3-Trichloropropane	mg/kg	0.005	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	1,2,4-Trichlorobenzene	mg/kg	22	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	1,2,4-Trimethylbenzene	mg/kg	62	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	1,2-Dibromo-3-chloropropane	mg/kg	0.0054	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	1,2-Dibromoethane	mg/kg	0.034	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	1,2-Dichlorobenzene	mg/kg	1900	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	1,2-Dichloroethane	mg/kg	0.43	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	1,2-Dichloropropane	mg/kg	0.94	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	1,3,5-Trimethylbenzene	mg/kg	780	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	1,3-Dichlorobenzene	mg/kg	NA	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	1,3-Dichloropropane	mg/kg	1600	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	1,4-Dichlorobenzene	mg/kg	2.4	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	2,2-Dichloropropane	mg/kg	NA	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	2-Butanone	mg/kg	28000	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	2-Chlorotoluene	mg/kg	1300	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	2-Hexanone	mg/kg	210	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	4-Chlorotoluene	mg/kg	1300	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	4-Methyl-2-pentanone	mg/kg	5300	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Acetone	mg/kg	61000	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Benzene	mg/kg	1.1	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Bromobenzene	mg/kg	300	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Bromochloromethane	mg/kg	160	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Bromodichloromethane	mg/kg	0.27	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Bromoform	mg/kg	62	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Bromomethane	mg/kg	7.3	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Carbon disulfide	mg/kg	820	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Carbon tetrachloride	mg/kg	0.61	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Chlorobenzene	mg/kg	290	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Chloroethane	mg/kg	15000	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Chloroform	mg/kg	0.29	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Chloromethane	mg/kg	120	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	cis-1,2-Dichloroethene	mg/kg	160	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	cis-1,3-Dichloropropene	mg/kg	NA	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Dibromochloromethane	mg/kg	0.68	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Dibromomethane	mg/kg	25	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Dichlorodifluoromethane	mg/kg	94	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Ethylbenzene	mg/kg	5.4	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Hexachlorobutadiene	mg/kg	6.2	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Isopropylbenzene	mg/kg	2100	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	m,p-Xylene	mg/kg	NA	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Methyl tert-butyl ether	mg/kg	43	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	
SW8260	Methylene chloride	mg/kg	56	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U	

Former Whirlpool Park
Summary of Analytical Results
Test Trench Soil

AECOM									
Field Sample ID	TT-1-53013	TT-2-53013	TT-3-53013	TT-4-53013	TT-5-53013	TT-6-53013	TT-7-53013	TT-8*	TT-9-53013
Sampling Date	30-May-2013	30-May-2013	30-May-2013	30-May-2013	30-May-2013	30-May-2013	30-May-2013	NA	30-May-2013
Sampling Depth (feet bgs)	0-3.0	0-2.5	0-2.0	0-2.5	12.5-13	11-11.7	NA	NA	9-10

Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result								
SW8260	Naphthalene	mg/kg	3.6	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U
SW8260	n-Butylbenzene	mg/kg	3900	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U
SW8260	n-Propylbenzene	mg/kg	3400	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U
SW8260	o-Xylene	mg/kg	690	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U
SW8260	p-Isopropyltoluene	mg/kg	NA	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U
SW8260	sec-Butylbenzene	mg/kg	NA	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U
SW8260	Styrene	mg/kg	6300	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U
SW8260	tert-Butylbenzene	mg/kg	NA	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U
SW8260	Tetrachloroethene	mg/kg	22	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U
SW8260	Toluene	mg/kg	5000	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U
SW8260	trans-1,2-Dichloroethene	mg/kg	150	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U
SW8260	trans-1,3-Dichloropropene	mg/kg	NA	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U
SW8260	Trichloroethene	mg/kg	0.91	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U
SW8260	Trichlorofluoromethane	mg/kg	790	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U
SW8260	Vinyl chloride	mg/kg	0.06	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U
SW8260	Xylenes, Total	mg/kg	630	0.0055 U	0.0052 U	0.0053 U	0.0051 U	0.0049 U	0.0054 U	0.0054 U	No Sample	0.0059 U
SVOCs												
SW8270C	1,2,4,5-Tetrachlorobenzene	mg/kg	18	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	1,2,4-Trichlorobenzene	mg/kg	22	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	1,2-Dichlorobenzene	mg/kg	1900	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	1,3-Dichlorobenzene	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	1,3-Dinitrobenzene	mg/kg	6.1	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	1,4-Dichlorobenzene	mg/kg	6.1	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	1-Methylnaphthalene	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	1-Naphthylamine	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	2,3,4,6-Tetrachlorophenol	mg/kg	1800	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	2,4,5-Trichlorophenol	mg/kg	6100	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	2,4,6-Trichlorophenol	mg/kg	44	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	2,4-Dichlorophenol	mg/kg	180	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	2,4-Dimethylphenol	mg/kg	1200	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	2,4-Dinitrophenol	mg/kg	120	1.9 U	2 U	1.9 U	1.8 U	1.9 U	2.1 U	2.1 U	No Sample	2 U
SW8270C	2,4-Dinitrotoluene	mg/kg	1.6	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	2,6-Dichlorophenol	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	2,6-Dinitrotoluene	mg/kg	61	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	2-Acetylaminofluorene	mg/kg	0.13	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	2-Chloronaphthalene	mg/kg	6300	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	2-Chlorophenol	mg/kg	390	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	2-Methylnaphthalene	mg/kg	230	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	2-Methylphenol	mg/kg	3100	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	2-Naphthylamine	mg/kg	0.27	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	2-Nitroaniline	mg/kg	610	1.9 U	2 U	1.9 U	1.8 U	1.9 U	2.1 U	2.1 U	No Sample	2 U
SW8270C	2-Nitrophenol	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	2-Picoline	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	3&4-Methylphenol	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	3,3-Dichlorobenzidine	mg/kg	1.1	0.76 U	0.79 U	0.74 U	0.73 U	0.78 U	0.85 U	0.85 U	No Sample	0.8 U
SW8270C	3-Methylcholanthrene	mg/kg	0.0052	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	3-Nitroaniline	mg/kg	NA	1.9 U	2 U	1.9 U	1.8 U	1.9 U	2.1 U	2.1 U	No Sample	2 U
SW8270C	4,6-Dinitro-2-methylphenol	mg/kg	4.9	1.9 U	2 U	1.9 U	1.8 U	1.9 U	2.1 U	2.1 U	No Sample	2 U
SW8270C	4-Aminobiphenyl	mg/kg	0.023	0.76 U	0.79 U	0.74 U	0.73 U	0.78 U	0.85 U	0.85 U	No Sample	0.8 U
SW8270C	4-Bromophenyl phenyl ether	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U
SW8270C	4-Chloro-3-methylphenol	mg/kg	6100	0.76 U	0.79 U	0.74 U	0.73 U	0.78 U	0.85 U	0.85 U	No Sample	0.8 U

Former Whirlpool Park
Summary of Analytical Results
Test Trench Soil

AECOM									
Field Sample ID	TT-1-53013	TT-2-53013	TT-3-53013	TT-4-53013	TT-5-53013	TT-6-53013	TT-7-53013	TT-8*	TT-9-53013
Sampling Date	30-May-2013	30-May-2013	30-May-2013	30-May-2013	30-May-2013	30-May-2013	30-May-2013	NA	30-May-2013
Sampling Depth (feet bgs)	0-3.0	0-2.5	0-2.0	0-2.5	12.5-13	11-11.7	NA	NA	9-10

Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result									
SW8270C	4-Chloroaniline	mg/kg	2.4	0.76 U	0.79 U	0.74 U	0.73 U	0.78 U	0.85 U	0.85 U	No Sample	0.8 U	
SW8270C	4-Chlorophenyl phenyl ether	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	4-Nitroaniline	mg/kg	24	0.76 U	0.79 U	0.74 U	0.73 U	0.78 U	0.85 U	0.85 U	No Sample	0.8 U	
SW8270C	4-Nitrophenol	mg/kg	NA	1.9 U	2 U	1.9 U	1.8 U	1.9 U	2.1 U	2.1 U	No Sample	2 U	
SW8270C	4-Nitroquinoline 1-oxide	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	5-Nitro-o-toluidine	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	7,12-Dimethylbenz(a)anthracene	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Acenaphthene	mg/kg	3400	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Acenaphthylene	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Acetophenone	mg/kg	7800	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Aniline	mg/kg	85	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Anthracene	mg/kg	17000	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Azobenzene	mg/kg	5.1	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Benzidine	mg/kg	0.0005	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Benzo(a)anthracene	mg/kg	0.15	0.38 U	0.39 U	1.8	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.42	
SW8270C	Benzo(a)pyrene	mg/kg	0.015	0.38 U	0.39 U	1.3	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Benzo(b)fluoranthene	mg/kg	0.15	0.38 U	0.39 U	1.4	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Benzo(g,h,i)perylene	mg/kg	NA	0.38 U	0.39 U	0.55	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Benzo(k)fluoranthene	mg/kg	1.5	0.38 U	0.39 U	1.0	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Benzyl alcohol	mg/kg	6100	0.76 U	0.79 U	0.74 U	0.73 U	0.78 U	0.85 U	0.85 U	No Sample	0.8 U	
SW8270C	Bis(2-chloroethoxy)methane	mg/kg	180	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Bis(2-chloroethyl)ether	mg/kg	0.21	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Bis(2-chloroisopropyl)ether	mg/kg	4.6	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Bis(2-ethylhexyl)phthalate	mg/kg	35	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Butyl benzyl phthalate	mg/kg	260	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Carbazole	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Chrysene	mg/kg	15	0.38 U	0.39 U	1.4	0.37 U	0.39 U	0.42 U	0.51	No Sample	0.47	
SW8270C	Dibenzo(a,h)anthracene	mg/kg	0.015	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Dibenzofuran	mg/kg	78	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Diethyl phthalate	mg/kg	49000	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Dimethyl phthalate	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Di-n-butyl phthalate	mg/kg	6100	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Di-n-octyl phthalate	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Dinoseb	mg/kg	61	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Diphenylamine	mg/kg	1500	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Ethyl methanesulfonate	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Fluoranthene	mg/kg	2300	0.38 U	0.39 U	1.4	0.37 U	0.39 U	0.42 U	0.51	No Sample	0.49	
SW8270C	Fluorene	mg/kg	2300	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Hexachlorobenzene	mg/kg	0.3	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Hexachlorobutadiene	mg/kg	6.2	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Hexachlorocyclopentadiene	mg/kg	370	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Hexachloroethane	mg/kg	12	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Indeno(1,2,3-cd)pyrene	mg/kg	0.15	0.17 U	0.18 U	0.63	0.17 U	0.18 U	0.19 U	0.19 U	No Sample	0.18 U	
SW8270C	Isophorone	mg/kg	510	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Isosafrole	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Methapyrilene	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Methyl methanesulfonate	mg/kg	4.9	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Naphthalene	mg/kg	3.6	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Nitrobenzene	mg/kg	4.8	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	N-Nitrosodiethylamine	mg/kg	0.00077	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	N-Nitrosodimethylamine	mg/kg	0.0023	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	

Former Whirlpool Park
Summary of Analytical Results
Test Trench Soil

		AECOM											
Field Sample ID		TT-1-53013	TT-2-53013	TT-3-53013	TT-4-53013	TT-5-53013	TT-6-53013	TT-7-53013	TT-8*	TT-9-53013			
Sampling Date		30-May-2013	30-May-2013	30-May-2013	30-May-2013	30-May-2013	30-May-2013	30-May-2013	NA	30-May-2013			
Sampling Depth (feet bgs)		0-3.0	0-2.5	0-2.0	0-2.5	12.5-13	11-11.7	NA	NA	9-10			
Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result									
SW8270C	N-Nitroso-di-n-butylamine	mg/kg	0.087	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	N-Nitrosodi-n-propylamine	mg/kg	0.069	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	N-Nitrosodiphenylamine	mg/kg	99	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	N-Nitrosomorpholine	mg/kg	0.073	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	N-Nitrosopiperidine	mg/kg	0.052	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	N-Nitrosopyrrolidine	mg/kg	0.23	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	o-Toluidine	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	p-Dimethylaminoazobenzene	mg/kg	0.11	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Pentachlorobenzene	mg/kg	49	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Pentachloroethane	mg/kg	5.4	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Pentachloronitrobenzene	mg/kg	1.9	0.76 U	0.79 U	0.74 U	0.73 U	0.78 U	0.85 U	0.85 U	No Sample	0.8 U	
SW8270C	Pentachlorophenol	mg/kg	0.89	1.9 U	2 U	1.9 U	1.8 U	1.9 U	2.1 U	2.1 U	No Sample	2 U	
SW8270C	Phenacetin	mg/kg	220	0.76 U	0.79 U	0.74 U	0.73 U	0.78 U	0.85 U	0.85 U	No Sample	0.8 U	
SW8270C	Phenanthrene	mg/kg	NA	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Phenol	mg/kg	18000	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Pyrene	mg/kg	1700	0.38 U	0.39 U	1.7	0.37 U	0.39 U	0.42 U	0.45	No Sample	0.41	
SW8270C	Pyridine	mg/kg	78	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
SW8270C	Safrole	mg/kg	0.52	0.38 U	0.39 U	0.37 U	0.37 U	0.39 U	0.42 U	0.43 U	No Sample	0.4 U	
TAL Metals													
SW6010B	Aluminum	mg/kg	77000	11,000	9,100	7,200	5,500	8,300	7,500	9,600	No Sample	9,600	
SW6010B	Antimony	mg/kg	31	3.4 U	3.5 U	3.3 U	3.3 U	5.3	3.8 U	3.8 U	No Sample	3.6 U	
SW6010B	Arsenic	mg/kg	13.197 ²	9.6	8.4	8.6	8.1	9.6	6.4 U	10	No Sample	8.2	
SW6010B	Barium	mg/kg	15000	62	53	60	36	55	28	57	No Sample	92	
SW6010B	Beryllium	mg/kg	160	0.62	0.56	0.44	0.35	0.47	0.43	0.54	No Sample	0.49	
SW6010B	Cadmium	mg/kg	70	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.3 U	1.3 U	No Sample	1.2 U	
SW6010B	Calcium	mg/kg	NA	27,000	14,000	9,800	8,600	53,000	16,000	26,000	No Sample	28,000	
SW6010B	Chromium	mg/kg	120000	18	14	10	8.8	15	12	19	No Sample	20	
SW6010B	Cobalt	mg/kg	23	11	7.9	6.3	5.5 U	12	6.4 U	10	No Sample	8.7	
SW6010B	Copper	mg/kg	3100	27	18	15	17	22	28	49	No Sample	170	
SW6010B	Iron	mg/kg	55000	25,000	19,000	16,000	14,000	22,000	14,000	39,000	No Sample	20,000	
SW6010B	Lead	mg/kg	400	21	25	100	220	28	15	44	No Sample	100	
SW6010B	Magnesium	mg/kg	NA	10,000	3,900	4,100	3,000	9,200	3,400	7,300	No Sample	11,000	
SW6010B	Manganese	mg/kg	1800	330	230	340	230	540	130	350	No Sample	330	
SW6010B	Nickel	mg/kg	1500	25	18	13	13	28	16	27	No Sample	22	
SW6010B	Potassium	mg/kg	NA	1,200	880	830	770	1,500	1,400	2,100	No Sample	1,500	
SW6010B	Selenium	mg/kg	390	3.4 U	3.5 U	3.3 U	3.3 U	3.5 U	3.8 U	3.8 U	No Sample	3.6 U	
SW6010B	Silver	mg/kg	390	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.3 U	1.3 U	No Sample	1.2 U	
SW6010B	Sodium	mg/kg	NA	570 U	590 U	560 U	550 U	580 U	640 U	640 U	No Sample	600 U	
SW6010B	Thallium	mg/kg	0.78	3.4 U	3.5 U	3.3 U	3.3 U	3.5 U	3.8 U	3.8 U	No Sample	3.6 U	
SW6010B	Vanadium	mg/kg	390	21	19	17	13	18	15	19	No Sample	19	
SW6010B	Zinc	mg/kg	23000	240	70	60	190	79	55	150	No Sample	120	
SW7471A	Mercury	mg/kg	10	0.59	0.35 U	0.33 U	0.33 U	0.35 U	0.37 U	0.39 U	No Sample	0.34 U	
Pesticides and Herbicides													
SW8081A	4,4-DDD	mg/kg	2	0.002 U	0.0018 U	0.0085 U	0.0017 U	0.002 U	0.002 U	0.002 U	No Sample	0.019 U	
SW8081A	4,4-DDE	mg/kg	1.4	0.002 U	0.0018 U	0.0085 U	0.017	0.0029	0.002 U	0.0064	No Sample	0.024	
SW8081A	4,4-DDT	mg/kg	1.7	0.002 U	0.0018 U	0.0085 U	0.01	0.002 U	0.002 U	0.015	No Sample	0.057	
SW8081A	Aldrin	mg/kg	0.029	0.002 U	0.0018 U	0.0085 U	0.0017 U	0.002 U	0.002 U	0.002 U	No Sample	0.019 U	
SW8081A	alpha-BHC	mg/kg	0.077	0.002 U	0.0018 U	0.0085 U	0.0017 U	0.002 U	0.002 U	0.002 U	No Sample	0.019 U	
SW8081A	alpha-Chlordane	mg/kg	NA	0.002 U	0.0018 U	0.0085 U	0.0017 U	0.002 U	0.002 U	0.0095	No Sample	0.019 U	
SW8081A	beta-BHC	mg/kg	0.27	0.002 U	0.0018 U	0.0085 U	0.0017 U	0.002 U	0.002 U	0.002 U	No Sample	0.019 U	
SW8081A	delta-BHC	mg/kg	NA	0.002 U	0.0018 U	0.0085 U	0.0017 U	0.002 U	0.002 U	0.002 U	No Sample	0.019 U	

Former Whirlpool Park
Summary of Analytical Results
Test Trench Soil

		AECOM											
Field Sample ID		TT-1-53013	TT-2-53013	TT-3-53013	TT-4-53013	TT-5-53013	TT-6-53013	TT-7-53013	TT-8*	TT-9-53013			
Sampling Date		30-May-2013	30-May-2013	30-May-2013	30-May-2013	30-May-2013	30-May-2013	30-May-2013	NA	30-May-2013			
Sampling Depth (feet bgs)		0-3.0	0-2.5	0-2.0	0-2.5	12.5-13	11-11.7	NA	NA	9-10			
Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result									
SW8081A	Dieldrin	mg/kg	0.03	0.002 U	0.0018 U	0.0085 U	0.0017 U	0.002 U	0.002 U	0.002 U	No Sample	0.019 U	
SW8081A	Endosulfan I	mg/kg	NA	0.002 U	0.0018 U	0.0085 U	0.0017 U	0.002 U	0.002 U	0.002 U	No Sample	0.019 U	
SW8081A	Endosulfan II	mg/kg	NA	0.002 U	0.0018 U	0.0085 U	0.0017 U	0.002 U	0.002 U	0.002 U	No Sample	0.019 U	
SW8081A	Endosulfan sulfate	mg/kg	NA	0.002 U	0.0018 U	0.0085 U	0.0017 U	0.002 U	0.002 U	0.002 U	No Sample	0.019 U	
SW8081A	Endrin	mg/kg	18	0.002 U	0.0018 U	0.0085 U	0.0017 U	0.002 U	0.002 U	0.002 U	No Sample	0.019 U	
SW8081A	Endrin aldehyde	mg/kg	NA	0.002 U	0.0018 U	0.0085 U	0.0017 U	0.002 U	0.002 U	0.002 U	No Sample	0.019 U	
SW8081A	Endrin ketone	mg/kg	NA	0.002 U	0.0018 U	0.0085 U	0.0017 U	0.002 U	0.002 U	0.002 U	No Sample	0.019 U	
SW8081A	gamma-BHC (Lindane)	mg/kg	0.52	0.002 U	0.0018 U	0.0085 U	0.0017 U	0.002 U	0.002 U	0.002 U	No Sample	0.019 U	
SW8081A	gamma-Chlordane	mg/kg	NA	0.002 U	0.0018 U	0.0085 U	0.0017 U	0.002 U	0.002 U	0.002 U	No Sample	0.022	
SW8081A	Heptachlor	mg/kg	0.11	0.002 U	0.0018 U	0.0085 U	0.0017 U	0.002 U	0.002 U	0.002 U	No Sample	0.019 U	
SW8081A	Heptachlor epoxide	mg/kg	0.053	0.002 U	0.0018 U	0.0085 U	0.0017 U	0.002 U	0.002 U	0.002 U	No Sample	0.019 U	
SW8081A	Methoxychlor	mg/kg	310	0.002 U	0.0018 U	0.0085 U	0.0017 U	0.002 U	0.002 U	0.002 U	No Sample	0.019 U	
SW8081A	Toxaphene	mg/kg	0.44	0.04 U	0.037 U	0.17 U	0.034 U	0.039 U	0.041 U	0.04 U	No Sample	0.19 U	
SW8151	2,4,5-T	mg/kg	610	0.0051 U	0.005 U	0.045 U	0.0048 U	0.0047 U	0.0054 U	0.052 U	No Sample	0.049 U	
SW8151	2,4,5-TP (Silvex)	mg/kg	490	0.0038 U	0.0038 U	0.034 U	0.0036 U	0.0035 U	0.0041 U	0.039 U	No Sample	0.037 U	
SW8151	2,4-D	mg/kg	690	0.051 U	0.05 U	0.45 U	0.048 U	0.047 U	0.054 U	0.52 U	No Sample	0.49 U	
SW8151	2,4-DB	mg/kg	490	0.051 U	0.05 U	0.45 U	0.048 U	0.047 U	0.054 U	0.52 U	No Sample	0.49 U	
SW8151	Dalapon	mg/kg	1800	0.13 U	0.12 U	1.1 U	0.12 U	0.12 U	0.14 U	1.3 U	No Sample	1.2 U	
SW8151	Dicamba	mg/kg	1800	0.0051 U	0.005 U	0.045 U	0.0048 U	0.0047 U	0.0054 U	0.052 U	No Sample	0.049 U	
SW8151	Dichlorprop	mg/kg	NA	0.051 U	0.05 U	0.45 U	0.048 U	0.047 U	0.054 U	0.52 U	No Sample	0.49 U	
SW8151	Dinoseb	mg/kg	61	0.025 U	0.025 U	0.23 U	0.024 U	0.023 U	0.027 U	0.26 U	No Sample	0.25 U	
SW8151	MCPA	mg/kg	31	5.1 U	5 U	45 U	4.8 U	4.7 U	5.4 U	52 U	No Sample	49 U	
SW8151	MCPP	mg/kg	61	5.1 U	5 U	45 U	4.8 U	4.7 U	5.4 U	52 U	No Sample	49 U	
SW8151	Pentachlorophenol	mg/kg	0.89	0.0051 U	0.005 U	0.045 U	0.0048 U	0.0047 U	0.0054 U	0.052 U	No Sample	0.049 U	
PCBs													
SW8082	Total PCBs ³	mg/kg	1.0 ⁴	ND	ND	ND	ND	ND	ND	0.24	No Sample	0.28	

Notes:

Bold results exceed laboratory reporting limits.

Gray highlighted results exceed the USEPA RSL screening criteria.

bgs = Below ground surface

ID = Identification

mg/kg = Milligram per kilogram

NA = Not available

PCB = Polychlorinated biphenyl

RSL = Regional Screening Level

SVOC = Semivolatile organic compound

TAL = Target Analyte List

ND = No PCBs detected

U = Not detected at indicated reporting limit

U.S. EPA = United States Environmental Protection Agency

¹ USEPA Regional Screening Levels (RSLs) for Residential Soil (November 2012).

² US Geological Survey, National Geochemical Survey Sandusky County mean average arsenic concentration (April 6, 2012).

³ Only Arochlor 1254 detected.

⁴ Screening criteria is TSCA unrestricted-use standard.

* = Test Trench 8 collapsed. No sample obtained.

Former Whirlpool Park
Summary of Analytical Results
Sediments

			Field Sample ID	SED-1-0001	SED-2-0001	SED-3-0001	SED-4-0001	SED-5-0001	SED-6-0001	SED-6B-0001	SED-7-0001	SED-8-001	SED-9-0001
			Sampling Date	20-May-2013	21-May-2013		22-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	
			Sampling Depth (feet bgs)	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result									
VOCs													
SW8260	1,1,1,2-Tetrachloroethane	mg/kg	1.9	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	1,1,1-Trichloroethane	mg/kg	8700	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	1,1,2,2-Tetrachloroethane	mg/kg	0.56	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	1,1,2-Trichloroethane	mg/kg	1.1	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	1,1-Dichloroethane	mg/kg	3.3	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	1,1-Dichloroethene	mg/kg	240	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	1,1-Dichloropropene	mg/kg	NA	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	1,2,3-Trichlorobenzene	mg/kg	49	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	1,2,3-Trichloropropane	mg/kg	0.005	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	1,2,4-Trichlorobenzene	mg/kg	22	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	1,2,4-Trimethylbenzene	mg/kg	62	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	1,2-Dibromo-3-chloropropane	mg/kg	0.0054	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	1,2-Dibromoethane	mg/kg	0.034	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	1,2-Dichlorobenzene	mg/kg	1900	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	1,2-Dichloroethane	mg/kg	0.43	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	1,2-Dichloropropane	mg/kg	0.94	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	1,3,5-Trimethylbenzene	mg/kg	780	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	1,3-Dichlorobenzene	mg/kg	NA	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	1,3-Dichloropropane	mg/kg	1600	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	1,4-Dichlorobenzene	mg/kg	2.4	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	2,2-Dichloropropane	mg/kg	NA	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	2-Butanone	mg/kg	28000	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.098	No Sediment
SW8260	2-Chlorotoluene	mg/kg	1300	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	2-Hexanone	mg/kg	210	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	4-Chlorotoluene	mg/kg	1300	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	4-Methyl-2-pentanone	mg/kg	5300	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Acetone	mg/kg	61000	0.0046 U	0.027	No Sediment	0.02	0.0042 U	0.011 U	0.0081 U	0.057	0.25	No Sediment
SW8260	Benzene	mg/kg	1.1	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Bromobenzene	mg/kg	300	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Bromochloromethane	mg/kg	160	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Bromodichloromethane	mg/kg	0.27	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Bromoform	mg/kg	62	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Bromomethane	mg/kg	7.3	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Carbon disulfide	mg/kg	820	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Carbon tetrachloride	mg/kg	0.61	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Chlorobenzene	mg/kg	290	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Chloroethane	mg/kg	15000	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Chloroform	mg/kg	0.29	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Chloromethane	mg/kg	120	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	cis-1,2-Dichloroethene	mg/kg	160	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	cis-1,3-Dichloropropene	mg/kg	NA	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Dibromochloromethane	mg/kg	0.68	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Dibromomethane	mg/kg	25	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Dichlorodifluoromethane	mg/kg	94	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Ethylbenzene	mg/kg	5.4	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Hexachlorobutadiene	mg/kg	6.2	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Isopropylbenzene	mg/kg	2100	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	m,p-Xylene	mg/kg	NA	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Methyl tert-butyl ether	mg/kg	43	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Methylene chloride	mg/kg	56	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Naphthalene	mg/kg	3.6	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment

Former Whirlpool Park
Summary of Analytical Results
Sediments

			Field Sample ID	SED-1-0001	SED-2-0001	SED-3-0001	SED-4-0001	SED-5-0001	SED-6-0001	SED-6B-0001	SED-7-0001	SED-8-001	SED-9-0001
			Sampling Date	20-May-2013	21-May-2013		22-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	
			Sampling Depth (feet bgs)	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result									
SW8260	n-Butylbenzene	mg/kg	3900	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	n-Propylbenzene	mg/kg	3400	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	o-Xylene	mg/kg	690	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	p-Isopropyltoluene	mg/kg	NA	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	sec-Butylbenzene	mg/kg	NA	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Styrene	mg/kg	6300	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	tert-Butylbenzene	mg/kg	NA	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Tetrachloroethene	mg/kg	22	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Toluene	mg/kg	5000	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	trans-1,2-Dichloroethene	mg/kg	150	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	trans-1,3-Dichloropropene	mg/kg	NA	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Trichloroethene	mg/kg	0.91	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Trichlorofluoromethane	mg/kg	790	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Vinyl chloride	mg/kg	0.06	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SW8260	Xylenes, Total	mg/kg	630	0.0046 U	0.007 U	No Sediment	0.0043 U	0.0042 U	0.011 U	0.0081 U	0.018 U	0.0075 U	No Sediment
SVOCs													
SW8270C	1,2,4,5-Tetrachlorobenzene	mg/kg	18	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	1,2,4-Trichlorobenzene	mg/kg	22	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	1,2-Dichlorobenzene	mg/kg	1900	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	1,3-Dichlorobenzene	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	1,3-Dinitrobenzene	mg/kg	6.1	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	1,4-Dichlorobenzene	mg/kg	6.1	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	1-Methylnaphthalene	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	1-Naphthylamine	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	2,3,4,6-Tetrachlorophenol	mg/kg	1800	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	2,4,5-Trichlorophenol	mg/kg	6100	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	2,4,6-Trichlorophenol	mg/kg	44	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	2,4-Dichlorophenol	mg/kg	180	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	2,4-Dimethylphenol	mg/kg	1200	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	2,4-Dinitrophenol	mg/kg	120	2.1 U	3.1 U	No Sediment	2.1 U	2.1 U	3.2 U	2.8 U	4.5 U	2.7 U	No Sediment
SW8270C	2,4-Dinitrotoluene	mg/kg	1.6	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	2,6-Dichlorophenol	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	2,6-Dinitrotoluene	mg/kg	61	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	2-Acetylaminofluorene	mg/kg	0.13	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	2-Chloronaphthalene	mg/kg	6300	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	2-Chlorophenol	mg/kg	390	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	2-Methylnaphthalene	mg/kg	230	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	2-Methylphenol	mg/kg	3100	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	2-Naphthylamine	mg/kg	0.27	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	2-Nitroaniline	mg/kg	610	2.1 U	3.1 U	No Sediment	2.1 U	2.1 U	3.2 U	2.8 U	4.5 U	2.7 U	No Sediment
SW8270C	2-Nitrophenol	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	2-Picoline	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	3&4-Methylphenol	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	3,3-Dichlorobenzidine	mg/kg	1.1	0.83 U	1.3 U	No Sediment	0.85 U	0.83 U	1.3 U	1.1 U	1.8 U	1.1 U	No Sediment
SW8270C	3-Methylcholanthrene	mg/kg	0.0052	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	3-Nitroaniline	mg/kg	NA	2.1 U	3.1 U	No Sediment	2.1 U	2.1 U	3.2 U	2.8 U	4.5 U	2.7 U	No Sediment
SW8270C	4,6-Dinitro-2-methylphenol	mg/kg	4.9	2.1 U	3.1 U	No Sediment	2.1 U	2.1 U	3.2 U	2.8 U	4.5 U	2.7 U	No Sediment
SW8270C	4-Aminobiphenyl	mg/kg	0.023	0.83 U	1.3 U	No Sediment	0.85 U	0.83 U	1.3 U	1.1 U	1.8 U	1.1 U	No Sediment
SW8270C	4-Bromophenyl phenyl ether	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	4-Chloro-3-methylphenol	mg/kg	6100	0.83 U	1.3 U	No Sediment	0.85 U	0.83 U	1.3 U	1.1 U	1.8 U	1.1 U	No Sediment
SW8270C	4-Chloroaniline	mg/kg	2.4	0.83 U	1.3 U	No Sediment	0.85 U	0.83 U	1.3 U	1.1 U	1.8 U	1.1 U	No Sediment
SW8270C	4-Chlorophenyl phenyl ether	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment

Former Whirlpool Park
Summary of Analytical Results
Sediments

			Field Sample ID	SED-1-0001	SED-2-0001	SED-3-0001	SED-4-0001	SED-5-0001	SED-6-0001	SED-6B-0001	SED-7-0001	SED-8-001	SED-9-0001
			Sampling Date	20-May-2013	21-May-2013		22-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	
			Sampling Depth (feet bgs)	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result									
SW8270C	4-Nitroaniline	mg/kg	24	0.83 U	1.3 U	No Sediment	0.85 U	0.83 U	1.3 U	1.1 U	1.8 U	1.1 U	No Sediment
SW8270C	4-Nitrophenol	mg/kg	NA	2.1 U	3.1 U	No Sediment	2.1 U	2.1 U	3.2 U	2.8 U	4.5 U	2.7 U	No Sediment
SW8270C	4-Nitroquinoline 1-oxide	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	5-Nitro-o-toluidine	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	7,12-Dimethylbenz(a)anthracene	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Acenaphthene	mg/kg	3400	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Acenaphthylene	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Acetophenone	mg/kg	7800	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Aniline	mg/kg	85	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Anthracene	mg/kg	17000	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Azobenzene	mg/kg	5.1	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Benzidine	mg/kg	0.0005	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Benzo(a)anthracene	mg/kg	0.15	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Benzo(a)pyrene	mg/kg	0.015	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Benzo(b)fluoranthene	mg/kg	0.15	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Benzo(g,h,i)perylene	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Benzo(k)fluoranthene	mg/kg	1.5	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Benzyl alcohol	mg/kg	6100	0.83 U	1.3 U	No Sediment	0.85 U	0.83 U	1.3 U	1.1 U	1.8 U	1.1 U	No Sediment
SW8270C	Bis(2-chloroethoxy)methane	mg/kg	180	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Bis(2-chloroethyl)ether	mg/kg	0.21	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Bis(2-chloroisopropyl)ether	mg/kg	4.6	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Bis(2-ethylhexyl)phthalate	mg/kg	35	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Butyl benzyl phthalate	mg/kg	260	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Carbazole	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Chrysene	mg/kg	15	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Dibenzo(a,h)anthracene	mg/kg	0.015	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Dibenzofuran	mg/kg	78	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Diethyl phthalate	mg/kg	49000	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Dimethyl phthalate	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Di-n-butyl phthalate	mg/kg	6100	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Di-n-octyl phthalate	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Dinoseb	mg/kg	61	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Diphenylamine	mg/kg	1500	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Ethyl methanesulfonate	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Fluoranthene	mg/kg	2300	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Fluorene	mg/kg	2300	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Hexachlorobenzene	mg/kg	0.3	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Hexachlorobutadiene	mg/kg	6.2	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Hexachlorocyclopentadiene	mg/kg	370	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Hexachloroethane	mg/kg	12	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Indeno(1,2,3-cd)pyrene	mg/kg	0.15	0.19 U	0.29 U	No Sediment	0.19 U	0.19 U	0.29 U	0.25 U	0.41 U	0.25 U	No Sediment
SW8270C	Isophorone	mg/kg	510	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Isosafrole	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Methapyrilene	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Methyl methanesulfonate	mg/kg	4.9	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Naphthalene	mg/kg	3.6	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Nitrobenzene	mg/kg	4.8	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	N-Nitrosodiethylamine	mg/kg	0.00077	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	N-Nitrosodimethylamine	mg/kg	0.0023	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	N-Nitroso-di-n-butylamine	mg/kg	0.087	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	N-Nitrosodi-n-propylamine	mg/kg	0.069	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment

Former Whirlpool Park
Summary of Analytical Results
Sediments

			Field Sample ID	SED-1-0001	SED-2-0001	SED-3-0001	SED-4-0001	SED-5-0001	SED-6-0001	SED-6B-0001	SED-7-0001	SED-8-001	SED-9-0001
			Sampling Date	20-May-2013	21-May-2013		22-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	
			Sampling Depth (feet bgs)	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result									
SW8270C	N-Nitrosodiphenylamine	mg/kg	99	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	N-Nitrosomorpholine	mg/kg	0.073	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	N-Nitrosopiperidine	mg/kg	0.052	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	N-Nitrosopyrrolidine	mg/kg	0.23	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	o-Toluidine	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	p-Dimethylaminoazobenzene	mg/kg	0.11	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Pentachlorobenzene	mg/kg	49	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Pentachloroethane	mg/kg	5.4	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Pentachloronitrobenzene	mg/kg	1.9	0.83 U	1.3 U	No Sediment	0.85 U	0.83 U	1.3 U	1.1 U	1.8 U	1.1 U	No Sediment
SW8270C	Pentachlorophenol	mg/kg	0.89	2.1 U	3.1 U	No Sediment	2.1 U	2.1 U	3.2 U	2.8 U	4.5 U	2.7 U	No Sediment
SW8270C	Phenacetin	mg/kg	220	0.83 U	1.3 U	No Sediment	0.85 U	0.83 U	1.3 U	1.1 U	1.8 U	1.1 U	No Sediment
SW8270C	Phenanthrene	mg/kg	NA	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Phenol	mg/kg	18000	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Pyrene	mg/kg	1700	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Pyridine	mg/kg	78	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
SW8270C	Safrole	mg/kg	0.52	0.42 U	0.63 U	No Sediment	0.42 U	0.41 U	0.64 U	0.55 U	0.91 U	0.55 U	No Sediment
TAL Metals													
SW6010B	Aluminum	mg/kg	77000	2,700	4,200	No Sediment	11,000	6,400	7,900	11,000	15,000	9,200	No Sediment
SW6010B	Antimony	mg/kg	31	3.8 U	5.7 U	No Sediment	3.8 U	3.7 U	5.8 U	5 U	8.2 U	4.9 U	No Sediment
SW6010B	Arsenic	mg/kg	13.197 ²	6.3 U	9.5 U	No Sediment	14	11	9.6 U	8.9	14 U	8.8	No Sediment
SW6010B	Barium	mg/kg	15000	13 U	29	No Sediment	150	27	59	71	61	120	No Sediment
SW6010B	Beryllium	mg/kg	160	0.18	0.30	No Sediment	0.61	0.58	0.46	0.62	0.80	0.56	No Sediment
SW6010B	Cadmium	mg/kg	70	1.3 U	1.9 U	No Sediment	1.3 U	1.2 U	1.9 U	1.7 U	2.7 U	1.6 U	No Sediment
SW6010B	Calcium	mg/kg	NA	18,000	23,000	No Sediment	57,000	2,100	73,000	53,000	44,000	25,000	No Sediment
SW6010B	Chromium	mg/kg	120000	5.4	8.1	No Sediment	20	12	15	20	23	20	No Sediment
SW6010B	Cobalt	mg/kg	23	6.3 U	9.5 U	No Sediment	11	7.9	9.6 U	13	14 U	15	No Sediment
SW6010B	Copper	mg/kg	3100	12	23	No Sediment	25	22	24	37	34	22	No Sediment
SW6010B	Iron	mg/kg	55000	9,700	13,000	No Sediment	36,000	22,000	20,000	26,000	28,000	22,000	No Sediment
SW6010B	Lead	mg/kg	400	10	18	No Sediment	11	14	20	17	27	22	No Sediment
SW6010B	Magnesium	mg/kg	NA	5,400	5,900	No Sediment	17,000	1,700	19,000	11,000	9,600	7,100	No Sediment
SW6010B	Manganese	mg/kg	1800	110	130	No Sediment	420	350	280	350	200	920	No Sediment
SW6010B	Nickel	mg/kg	1500	8.5	12	No Sediment	30	23	20	36	29	55	No Sediment
SW6010B	Potassium	mg/kg	NA	630 U	950 U	No Sediment	1,800	620 U	1,200	1,600	1,800	1,200	No Sediment
SW6010B	Selenium	mg/kg	390	3.8 U	5.7 U	No Sediment	3.8 U	3.7 U	5.8 U	5 U	8.2 U	4.9 U	No Sediment
SW6010B	Silver	mg/kg	390	1.3 U	1.9 U	No Sediment	1.3 U	1.2 U	1.9 U	1.7 U	2.7 U	1.6 U	No Sediment
SW6010B	Sodium	mg/kg	NA	630 U	950 U	No Sediment	640 U	620 U	960 U	840 U	1400 U	820 U	No Sediment
SW6010B	Thallium	mg/kg	0.78	3.8 U	5.7 U	No Sediment	3.8 U	3.7 U	5.8 U	5 U	8.2 U	4.9 U	No Sediment
SW6010B	Vanadium	mg/kg	390	6.3 U	9.5 U	No Sediment	23	18	17	22	25	18	No Sediment
SW6010B	Zinc	mg/kg	23000	34	59	No Sediment	61	49	75	98	130	150	No Sediment
SW7471A	Mercury	mg/kg	10	0.38 U	0.52 U	No Sediment	0.38 U	0.35 U	0.57 U	0.47 U	0.77 U	0.48 U	No Sediment
Pesticides and Herbicides													
SW8081A	4,4-DDD	mg/kg	2	0.022 U	0.056 U	No Sediment	0.002 U	0.002 U	0.0029 U	0.014 U	0.081 U	0.0027 U	No Sediment
SW8081A	4,4-DDE	mg/kg	1.4	0.022 U	0.056 U	No Sediment	0.002 U	0.002 U	0.0029 U	0.014 U	0.081 U	0.0027 U	No Sediment
SW8081A	4,4-DDT	mg/kg	1.7	0.022 U	0.056 U	No Sediment	0.002 U	0.002 U	0.0029 U	0.014 U	0.081 U	0.0027 U	No Sediment
SW8081A	Aldrin	mg/kg	0.029	0.022 U	0.056 U	No Sediment	0.002 U	0.002 U	0.0029 U	0.014 U	0.081 U	0.0027 U	No Sediment
SW8081A	alpha-BHC	mg/kg	0.077	0.022 U	0.056 U	No Sediment	0.002 U	0.002 U	0.0029 U	0.014 U	0.081 U	0.0027 U	No Sediment
SW8081A	alpha-Chlordane	mg/kg	NA	0.022 U	0.056 U	No Sediment	0.002 U	0.002 U	0.0029 U	0.014 U	0.081 U	0.0027 U	No Sediment
SW8081A	beta-BHC	mg/kg	0.27	0.022 U	0.056 U	No Sediment	0.002 U	0.002 U	0.0029 U	0.014 U	0.081 U	0.0027 U	No Sediment
SW8081A	delta-BHC	mg/kg	NA	0.022 U	0.056 U	No Sediment	0.002 U	0.002 U	0.0029 U	0.014 U	0.081 U	0.0027 U	No Sediment
SW8081A	Dieldrin	mg/kg	0.03	0.022 U	0.056 U	No Sediment	0.002 U	0.002 U	0.0029 U	0.014 U	0.081 U	0.0027 U	No Sediment
SW8081A	Endosulfan I	mg/kg	NA	0.022 U	0.056 U	No Sediment	0.002 U	0.002 U	0.0029 U	0.014 U	0.081 U	0.0027 U	No Sediment
SW8081A	Endosulfan II	mg/kg	NA	0.022 U	0.056 U	No Sediment	0.002 U	0.002 U	0.0029 U	0.014 U	0.081 U	0.0027 U	No Sediment

Former Whirlpool Park
Summary of Analytical Results
Sediments

		Field Sample ID	SED-1-0001	SED-2-0001	SED-3-0001	SED-4-0001	SED-5-0001	SED-6-0001	SED-6B-0001	SED-7-0001	SED-8-001	SED-9-0001	
		Sampling Date	20-May-2013	21-May-2013		22-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013	21-May-2013		
		Sampling Depth (feet bgs)	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	
Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result									
SW8081A	Endosulfan sulfate	mg/kg	NA	0.022 U	0.056 U	No Sediment	0.002 U	0.002 U	0.0029 U	0.014 U	0.081 U	0.0027 U	No Sediment
SW8081A	Endrin	mg/kg	18	0.022 U	0.056 U	No Sediment	0.002 U	0.002 U	0.0029 U	0.014 U	0.081 U	0.0027 U	No Sediment
SW8081A	Endrin aldehyde	mg/kg	NA	0.022 U	0.056 U	No Sediment	0.002 U	0.002 U	0.0029 U	0.014 U	0.081 U	0.0027 U	No Sediment
SW8081A	Endrin ketone	mg/kg	NA	0.022 U	0.056 U	No Sediment	0.002 U	0.002 U	0.0029 U	0.014 U	0.081 U	0.0027 U	No Sediment
SW8081A	gamma-BHC (Lindane)	mg/kg	0.52	0.022 U	0.056 U	No Sediment	0.002 U	0.002 U	0.0029 U	0.014 U	0.081 U	0.0027 U	No Sediment
SW8081A	gamma-Chlordane	mg/kg	NA	0.022 U	0.056 U	No Sediment	0.002 U	0.002 U	0.0029 U	0.014 U	0.081 U	0.0027 U	No Sediment
SW8081A	Heptachlor	mg/kg	0.11	0.022 U	0.056 U	No Sediment	0.002 U	0.002 U	0.0029 U	0.014 U	0.081 U	0.0027 U	No Sediment
SW8081A	Heptachlor epoxide	mg/kg	0.053	0.022 U	0.056 U	No Sediment	0.002 U	0.002 U	0.0029 U	0.014 U	0.081 U	0.0027 U	No Sediment
SW8081A	Methoxychlor	mg/kg	310	0.022 U	0.056 U	No Sediment	0.002 U	0.002 U	0.0029 U	0.014 U	0.081 U	0.0027 U	No Sediment
SW8081A	Toxaphene	mg/kg	0.44	0.44 U	1.1 U	No Sediment	0.02 U	0.04 U	0.059 U	0.28 U	1.6 U	0.054 U	No Sediment
SW8151	2,4,5-T	mg/kg	610	0.029 U	0.072 U	No Sediment	0.0054 U	0.0055 U	0.08 U	0.039 U	0.24 U	0.0077 U	No Sediment
SW8151	2,4,5-TP (Silvex)	mg/kg	490	0.022 U	0.054 U	No Sediment	0.004 U	0.0042 U	0.06 U	0.029 U	0.18 U	0.0058 U	No Sediment
SW8151	2,4-D	mg/kg	690	0.29 U	0.72 U	No Sediment	0.054 U	0.055 U	0.8 U	0.39 U	2.4 U	0.077 U	No Sediment
SW8151	2,4-DB	mg/kg	490	0.29 U	0.72 U	No Sediment	0.054 U	0.055 U	0.8 U	0.39 U	2.4 U	0.077 U	No Sediment
SW8151	Dalapon	mg/kg	1800	0.73 U	1.8 U	No Sediment	0.13 U	0.14 U	2 U	0.97 U	5.9 U	0.19 U	No Sediment
SW8151	Dicamba	mg/kg	1800	0.029 U	0.072 U	No Sediment	0.0054 U	0.0055 U	0.08 U	0.039 U	0.24 U	0.0077 U	No Sediment
SW8151	Dichlorprop	mg/kg	NA	0.29 U	0.72 U	No Sediment	0.054 U	0.055 U	0.8 U	0.39 U	2.4 U	0.077 U	No Sediment
SW8151	Dinoseb	mg/kg	61	0.15 U	0.36 U	No Sediment	0.027 U	0.028 U	0.4 U	0.19 U	1.2 U	0.038 U	No Sediment
SW8151	MCPA	mg/kg	31	29 U	72 U	No Sediment	5.4 U	5.5 U	80 U	39 U	240 U	7.7 U	No Sediment
SW8151	MCPP	mg/kg	61	29 U	72 U	No Sediment	5.4 U	5.5 U	80 U	39 U	240 U	7.7 U	No Sediment
SW8151	Pentachlorophenol	mg/kg	0.89	0.029 U	0.072 U	No Sediment	0.0054 U	0.0055 U	0.08 U	0.039 U	0.24 U	0.0077 U	No Sediment
PCBs													
SW8082	Total PCBs ³	mg/kg	1.0 ⁴	ND	ND	No Sediment	ND	ND	ND	ND	ND	ND	No Sediment

Notes:

Bold results exceed laboratory reporting limits.

Gray highlighted results exceed the USEPA RSL screening criteria.

bgs = Below ground surface

ID = Identification

mg/kg = Milligram per kilogram

NA = Not available

PCB = Polychlorinated biphenyl

RSL = Regional Screening Level

SVOC = Semivolatile organic compound

TAL = Target Analyte List

ND = No PCBs detected

U = Not detected at indicated reporting limit

U.S. EPA = United States Environmental Protection Agency

1 USEPA Regional Screening Levels (RSLs) for Residential Soil (November 2012).

2 US Geological Survey, National Geochemical Survey Sandusky County mean average arsenic concentration (April 6, 2012).

3 Only Arochlor 1254 detected.

4 Screening criteria is TSCA unrestricted-use standard.

Former Whirlpool Park
 Summary of Analytical Results
 Filter Media and Soil

Field Sample ID	ASTE-1	ASTE-S1-0001	ASTE-S1-0102	ASTW-1	ASTW-S1-0001	ASTW-S1-0102	SF-1	SF-2	SF-2B	SF-3	SF-S1-0001	SF-S1-0102
Sampling Date	22-May-2013	22-May-2013	22-May-2013	22-May-2013	22-May-2013	22-May-2013	22-May-2013	22-May-2013	22-May-2013	22-May-2013	22-May-2013	22-May-2013
Sampling Depth (feet bgs)	NA	0 - 1	1 - 2	NA	0-1	1-2	NA	NA	NA	NA	0-1	1-2

Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result											
TAL Metals															
SW6010B	Cobalt	mg/kg	23	5.1 U	6.1 U	5.9 U	7.4	5.9 U	7.0	5.3 U	5.2 U	5.3 U	5.4 U	8.6	7.4
SW6010B	Nickel	mg/kg	1500	11	12	12	34	15	17	5.7	5.2 U	5.3 U	5.7	21	20
PCBs															
SW8082	Total PCBs ²	mg/kg	1.0 ³	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Bold results exceed laboratory reporting limits.

Gray highlighted results exceed the USEPA RSL screening criteria.

bgs = Below ground surface

ID = Identification

mg/kg = Milligram per kilogram

PCB = Polychlorinated biphenyl

RSL = Regional Screening Level

TAL = Target Analyte List

ND = No PCBs detected

U = Not detected at indicated reporting limit

U.S. EPA = United States Environmental Protection Agency

1 USEPA Regional Screening Levels (RSLs) for Residential Soil (November 2012).

2 Only Arochlor 1254 detected.

3 Screening criteria is TSCA unrestricted-use standard.

Former Whirlpool Park
 Summary of Analytical Results
 Surface Water

		Field Sample ID	SW-1-052013	SW-2-052113	SW-3-052113	SW-4-052213	SW-5-052113	SW-6	SW-7-052113	SW-8-052113	SW-9-062413	
		Sampling Date	20-May-2013	21-May-2013	21-May-2013	22-May-2013	21-May-2013		21-May-2013	21-May-2013	24-Jun-2013	
Analytical Method	Analytical Parameter	Unit	Water Quality Criteria ¹	Result								
VOCs												
SW8260	1,1,1,2-Tetrachloroethane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	1,1,1-Trichloroethane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	1,1,2,2-Tetrachloroethane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	1,1,2-Trichloroethane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	1,1-Dichloroethane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	1,1-Dichloroethene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	1,1-Dichloropropene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	1,2,3-Trichlorobenzene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	1,2,3-Trichloropropane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	1,2,4-Trichlorobenzene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	1,2,4-Trimethylbenzene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	1,2-Dibromo-3-chloropropane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	1,2-Dibromoethane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	1,2-Dichlorobenzene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	1,2-Dichloroethane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	1,2-Dichloropropane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	1,3,5-Trimethylbenzene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	1,3-Dichlorobenzene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	1,3-Dichloropropane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	1,4-Dichlorobenzene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	2,2-Dichloropropane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	2-Butanone	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	2-Chlorotoluene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	2-Hexanone	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	4-Chlorotoluene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	4-Methyl-2-pentanone	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Acetone	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Benzene	µg/L	310	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Bromobenzene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Bromochloromethane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Bromodichloromethane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Bromoform	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Bromomethane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Carbon disulfide	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Carbon tetrachloride	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Chlorobenzene	µg/L	3,200	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Chloroethane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Chloroform	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Chloromethane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	cis-1,2-Dichloroethene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	cis-1,3-Dichloropropene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Dibromochloromethane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Dibromomethane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Dichlorodifluoromethane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Ethylbenzene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Hexachlorobutadiene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Isopropylbenzene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	m,p-Xylene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Methyl tert-butyl ether	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Methylene chloride	µg/L	2,600	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U

Former Whirlpool Park
Summary of Analytical Results
Surface Water

		Field Sample ID	SW-1-052013	SW-2-052113	SW-3-052113	SW-4-052213	SW-5-052113	SW-6	SW-7-052113	SW-8-052113	SW-9-062413	
		Sampling Date	20-May-2013	21-May-2013	21-May-2013	22-May-2013	21-May-2013		21-May-2013	21-May-2013	24-Jun-2013	
Analytical Method	Analytical Parameter	Unit	Water Quality Criteria ¹	Result								
SW8260	Naphthalene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	n-Butylbenzene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	n-Propylbenzene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	o-Xylene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	p-Isopropyltoluene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	sec-Butylbenzene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Styrene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	tert-Butylbenzene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Tetrachloroethene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Toluene	µg/L	51,000	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	trans-1,2-Dichloroethene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	trans-1,3-Dichloropropene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Trichloroethene	µg/L	370	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Trichlorofluoromethane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW8260	Vinyl chloride	µg/L	NA	2 U	2 U	2 U	2 U	2 U	Location Dry	2 U	2 U	2 U
SW8260	Xylenes, Total	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SVOCs												
SW8270C	1,2,4,5-Tetrachlorobenzene	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	1,2,4-Trichlorobenzene	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	1,2-Dichlorobenzene	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	1,3-Dichlorobenzene	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	1,3-Dinitrobenzene	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	1,4-Dichlorobenzene	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	1-Methylnaphthalene	µg/L	NA	0.1 U	0.11 U	0.11 U	0.1 U	0.12 U	Location Dry	0.12 U	0.13 U	0.098 U
SW8270C	1-Naphthylamine	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	2,3,4,6-Tetrachlorophenol	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	2,4,5-Trichlorophenol	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	2,4,6-Trichlorophenol	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	2,4-Dichlorophenol	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	2,4-Dimethylphenol	µg/L	8,700	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	2,4-Dinitrophenol	µg/L	2,800	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	2,4-Dinitrotoluene	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	2,6-Dichlorophenol	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	2,6-Dinitrotoluene	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	2-Acetylaminofluorene	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	2-Chloronaphthalene	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	2-Chlorophenol	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	2-Methylnaphthalene	µg/L	NA	0.1 U	0.24	0.18	0.1 U	0.12 U	Location Dry	0.12 U	0.13 U	0.098 U
SW8270C	2-Methylphenol	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	2-Naphthylamine	µg/L	NA	21 U	22 U	21 U	20 U	23 U	Location Dry	24 U	25 U	20 U
SW8270C	2-Nitroaniline	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	2-Nitrophenol	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	2-Picoline	µg/L	NA	21 U	22 U	21 U	20 U	23 U	Location Dry	24 U	25 U	20 U
SW8270C	3&4-Methylphenol	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	3,3-Dichlorobenzidine	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	3-Methylcholanthrene	µg/L	NA	21 U	22 U	21 U	20 U	23 U	Location Dry	24 U	25 U	20 U
SW8270C	3-Nitroaniline	µg/L	NA	21 U	22 U	21 U	20 U	23 U	Location Dry	24 U	25 U	20 U
SW8270C	4,6-Dinitro-2-methylphenol	µg/L	NA	21 U	22 U	21 U	20 U	23 U	Location Dry	24 U	25 U	20 U
SW8270C	4-Aminobiphenyl	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	4-Bromophenyl phenyl ether	µg/L	NA	21 U	22 U	21 U	20 U	23 U	Location Dry	24 U	25 U	20 U
SW8270C	4-Chloro-3-methylphenol	µg/L	NA	21 U	22 U	21 U	20 U	23 U	Location Dry	24 U	25 U	20 U

Former Whirlpool Park
 Summary of Analytical Results
 Surface Water

		Field Sample ID	SW-1-052013	SW-2-052113	SW-3-052113	SW-4-052213	SW-5-052113	SW-6	SW-7-052113	SW-8-052113	SW-9-062413	
		Sampling Date	20-May-2013	21-May-2013	21-May-2013	22-May-2013	21-May-2013		21-May-2013	21-May-2013	24-Jun-2013	
Analytical Method	Analytical Parameter	Unit	Water Quality Criteria ¹	Result								
SW8270C	4-Chloroaniline	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	4-Chlorophenyl phenyl ether	µg/L	NA	21 U	22 U	21 U	20 U	23 U	Location Dry	24 U	25 U	20 U
SW8270C	4-Nitroaniline	µg/L	NA	21 U	22 U	21 U	20 U	23 U	Location Dry	24 U	25 U	20 U
SW8270C	4-Nitrophenol	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	4-Nitroquinoline 1-oxide	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	5-Nitro-o-toluidine	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	7,12-Dimethylbenz(a)anthracene	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Acenaphthene	µg/L	NA	0.1 U	0.11 U	0.11 U	0.1 U	0.12 U	Location Dry	0.12 U	0.13 U	0.098 U
SW8270C	Acenaphthylene	µg/L	NA	0.1 U	0.11 U	0.11 U	0.1 U	0.12 U	Location Dry	0.12 U	0.13 U	0.098 U
SW8270C	Acetophenone	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Aniline	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Anthracene	µg/L	NA	0.1 U	0.11 U	0.11 U	0.1 U	0.12 U	Location Dry	0.12 U	0.13 U	0.098 U
SW8270C	Azobenzene	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Benzidine	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Benzo(a)anthracene	µg/L	NA	0.1 U	0.11 U	0.11 U	0.1 U	0.12 U	Location Dry	0.12 U	0.13 U	0.098 U
SW8270C	Benzo(a)pyrene	µg/L	NA	0.1 U	0.11 U	0.11 U	0.1 U	0.12 U	Location Dry	0.12 U	0.13 U	0.098 U
SW8270C	Benzo(b)fluoranthene	µg/L	NA	0.11 U	0.12 U	0.12 U	0.11 U	0.13 U	Location Dry	0.13 U	0.14 U	0.11 U
SW8270C	Benzo(g,h,i)perylene	µg/L	NA	0.1 U	0.11 U	0.11 U	0.1 U	0.12 U	Location Dry	0.12 U	0.13 U	0.098 U
SW8270C	Benzo(k)fluoranthene	µg/L	NA	0.17 U	0.17 U	0.17 U	0.16 U	0.19 U	Location Dry	0.19 U	0.2 U	0.16 U
SW8270C	Benzyl alcohol	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Bis(2-chloroethoxy)methane	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Bis(2-chloroethyl)ether	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Bis(2-chloroisopropyl)ether	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Bis(2-ethylhexyl)phthalate	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Butyl benzyl phthalate	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Carbazole	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Chrysene	µg/L	NA	0.1 U	0.11 U	0.11 U	0.1 U	0.12 U	Location Dry	0.12 U	0.13 U	0.098 U
SW8270C	Dibenzo(a,h)anthracene	µg/L	NA	0.1 U	0.11 U	0.11 U	0.1 U	0.12 U	Location Dry	0.12 U	0.13 U	0.098 U
SW8270C	Dibenzofuran	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Diethyl phthalate	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Dimethyl phthalate	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Di-n-butyl phthalate	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Di-n-octyl phthalate	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Dinoseb	µg/L	NA	21 U	22 U	21 U	20 U	23 U	Location Dry	24 U	25 U	20 U
SW8270C	Diphenylamine	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Ethyl methanesulfonate	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Fluoranthene	µg/L	NA	0.1 U	0.11 U	0.11 U	0.1 U	0.12 U	Location Dry	0.12 U	0.13 U	0.098 U
SW8270C	Fluorene	µg/L	NA	0.1 U	0.11 U	0.11 U	0.1 U	0.12 U	Location Dry	0.12 U	0.13 U	0.098 U
SW8270C	Hexachlorobenzene	µg/L	0.00045	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Hexachlorobutadiene	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Hexachlorocyclopentadiene	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Hexachloroethane	µg/L	6.7	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Indeno(1,2,3-cd)pyrene	µg/L	NA	0.1 U	0.11 U	0.11 U	0.1 U	0.12 U	Location Dry	0.12 U	0.13 U	0.098 U
SW8270C	Isophorone	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Isosafrole	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Methapyrilene	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Methyl methanesulfonate	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Naphthalene	µg/L	NA	0.10	0.24	0.14	0.1 U	0.12 U	Location Dry	0.12 U	0.13 U	0.098 U
SW8270C	Nitrobenzene	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	N-Nitrosodiethylamine	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U

Former Whirlpool Park
 Summary of Analytical Results
 Surface Water

		Field Sample ID	SW-1-052013	SW-2-052113	SW-3-052113	SW-4-052213	SW-5-052113	SW-6	SW-7-052113	SW-8-052113	SW-9-062413	
		Sampling Date	20-May-2013	21-May-2013	21-May-2013	22-May-2013	21-May-2013		21-May-2013	21-May-2013	24-Jun-2013	
Analytical Method	Analytical Parameter	Unit	Water Quality Criteria ¹	Result								
SW8270C	N-Nitrosodimethylamine	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	N-Nitroso-di-n-butylamine	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	N-Nitrosodi-n-propylamine	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	N-Nitrosodiphenylamine	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	N-Nitrosomorpholine	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	N-Nitrosopiperidine	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	N-Nitrosopyrrolidine	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	o-Toluidine	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	p-Dimethylaminoazobenzene	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Pentachlorobenzene	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Pentachloroethane	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Pentachloronitrobenzene	µg/L	NA	21 U	22 U	21 U	20 U	23 U	Location Dry	24 U	25 U	20 U
SW8270C	Pentachlorophenol	µg/L	NA	21 U	22 U	21 U	20 U	23 U	Location Dry	24 U	25 U	20 U
SW8270C	Phenacetin	µg/L	NA	21 U	22 U	21 U	20 U	23 U	Location Dry	24 U	25 U	20 U
SW8270C	Phenanthrene	µg/L	NA	0.1 U	0.11 U	0.11 U	0.1 U	0.12 U	Location Dry	0.12 U	0.13 U	0.098 U
SW8270C	Phenol	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Pyrene	µg/L	NA	0.1 U	0.11 U	0.11 U	0.1 U	0.12 U	Location Dry	0.12 U	0.13 U	0.098 U
SW8270C	Pyridine	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
SW8270C	Safrole	µg/L	NA	10 U	11 U	11 U	10 U	12 U	Location Dry	12 U	13 U	9.8 U
TAL Metals												
SW6010B	Aluminum	µg/L	NA	200 U	200 U	200 U	200 U	760	Location Dry	950	200 U	200 U
SW6010B	Antimony	µg/L	NA	6 U	6 U	6 U	6.7	6 U	Location Dry	6 U	6 U	6 U
SW6010B	Arsenic	µg/L	NA	10 U	10 U	10 U	10 U	10 U	Location Dry	10 U	10 U	10 U
SW6010B	Barium	µg/L	NA	100 U	100 U	100 U	100 U	100 U	Location Dry	100 U	100	100 U
SW6010B	Beryllium	µg/L	NA	4 U	4 U	4 U	4 U	4 U	Location Dry	4 U	4 U	4 U
SW6010B	Cadmium	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5 U	5 U	5 U
SW6010B	Calcium	µg/L	NA	500,000	500,000	500,000	540,000	240,000	Location Dry	130,000	140,000	120,000
SW6010B	Chromium	µg/L	NA	20 U	20 U	20 U	20 U	20 U	Location Dry	20 U	20 U	20 U
SW6010B	Cobalt	µg/L	NA	50 U	50 U	50 U	50 U	50 U	Location Dry	50 U	50 U	50 U
SW6010B	Copper	µg/L	NA	25 U	25 U	25 U	25 U	25 U	Location Dry	25 U	25 U	25 U
SW6010B	Iron	µg/L	NA	200 U	200 U	200 U	200 U	1,600	Location Dry	4,600	340	400
SW6010B	Lead	µg/L	NA	15 U	15 U	15 U	15 U	15 U	Location Dry	15 U	15 U	15 U
SW6010B	Magnesium	µg/L	NA	58,000	58,000	57,000	63,000	32,000	Location Dry	28,000	31,000	27,000
SW6010B	Manganese	µg/L	NA	50 U	50 U	50 U	50 U	2,400	Location Dry	2,800	140	190
SW7470A	Mercury	µg/L	0.0031	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	Location Dry	500 U	500 U	0.5 U
SW6010B	Nickel	µg/L	NA	40 U	40 U	40 U	40 U	40 U	Location Dry	40 U	40 U	40 U
SW6010B	Potassium	µg/L	NA	2,800	2,900	2,900	3,200	4,800	Location Dry	6,700	4,100	3,300
SW6010B	Selenium	µg/L	NA	30 U	30 U	30 U	30 U	30 U	Location Dry	30 U	30 U	30 U
SW6010B	Silver	µg/L	NA	10 U	10 U	10 U	10 U	10 U	Location Dry	10 U	10 U	10 U
SW6010B	Sodium	µg/L	NA	14,000	14,000	14,000	15,000	62,000	Location Dry	11,000	130,000	160,000
SW6010B	Thallium	µg/L	NA	2 U	2 U	2 U	2 U	4.9	Location Dry	4.2	2 U	2 U
SW6010B	Vanadium	µg/L	NA	50 U	50 U	50 U	50 U	50 U	Location Dry	50 U	50 U	50 U
SW6010B	Zinc	µg/L	NA	50 U	50 U	50 U	50 U	51	Location Dry	73	50 U	50 U
Pesticides and Herbicides												
SW8081A	4,4-DDD	µg/L	NA	0.05 U	0.05 U	0.053 U	0.05 U	0.051 U	Location Dry	0.053 U	0.053 U	0.04 U
SW8081A	4,4-DDE	µg/L	NA	0.05 U	0.05 U	0.053 U	0.05 U	0.051 U	Location Dry	0.053 U	0.053 U	0.04 U
SW8081A	4,4-DDT	µg/L	0.00015	0.05 U	0.05 U	0.053 U	0.05 U	0.051 U	Location Dry	0.053 U	0.053 U	0.04 U
SW8081A	Aldrin	µg/L	NA	0.05 U	0.05 U	0.053 U	0.05 U	0.051 U	Location Dry	0.053 U	0.053 U	0.02 U
SW8081A	alpha-Chlordane	µg/L	NA	0.05 U	0.05 U	0.053 U	0.05 U	0.051 U	Location Dry	0.053 U	0.053 U	— U
SW8081A	alpha-BHC	µg/L	NA	0.05 U	0.05 U	0.053 U	0.05 U	0.051 U	Location Dry	0.053 U	0.053 U	0.02 U
SW8081A	beta-BHC	µg/L	NA	0.05 U	0.05 U	0.053 U	0.05 U	0.051 U	Location Dry	0.053 U	0.053 U	0.02 U

Former Whirlpool Park
Summary of Analytical Results
Surface Water

		Field Sample ID	SW-1-052013	SW-2-052113	SW-3-052113	SW-4-052213	SW-5-052113	SW-6	SW-7-052113	SW-8-052113	SW-9-062413	
		Sampling Date	20-May-2013	21-May-2013	21-May-2013	22-May-2013	21-May-2013		21-May-2013	21-May-2013	24-Jun-2013	
Analytical Method	Analytical Parameter	Unit	Water Quality Criteria ¹	Result								
SW8081A	delta-BHC	µg/L	NA	0.05 U	0.05 U	0.053 U	0.05 U	0.051 U	Location Dry	0.053 U	0.053 U	0.02 U
SW8081A	Dieldrin	µg/L	0.0000065	0.05 U	0.05 U	0.053 U	0.05 U	0.051 U	Location Dry	0.053 U	0.053 U	0.04 U
SW8081A	Endosulfan I	µg/L	NA	0.05 U	0.05 U	0.053 U	0.05 U	0.051 U	Location Dry	0.053 U	0.053 U	0.02 U
SW8081A	Endosulfan II	µg/L	NA	0.05 U	0.05 U	0.053 U	0.05 U	0.051 U	Location Dry	0.053 U	0.053 U	0.04 U
SW8081A	Endosulfan sulfate	µg/L	NA	0.05 U	0.05 U	0.053 U	0.05 U	0.051 U	Location Dry	0.053 U	0.053 U	0.04 U
SW8081A	Endrin	µg/L	NA	0.05 U	0.05 U	0.053 U	0.05 U	0.051 U	Location Dry	0.053 U	0.053 U	0.04 U
SW8081A	Endrin aldehyde	µg/L	NA	0.05 U	0.05 U	0.053 U	0.05 U	0.051 U	Location Dry	0.053 U	0.053 U	0.04 U
SW8081A	Endrin ketone	µg/L	NA	0.05 U	0.05 U	0.053 U	0.05 U	0.051 U	Location Dry	0.053 U	0.053 U	0.04 U
SW8081A	gamma-Chlordane	µg/L	NA	0.05 U	0.05 U	0.053 U	0.05 U	0.051 U	Location Dry	0.053 U	0.053 U	—
SW8081A	gamma-BHC (Lindane)	µg/L	0.50	0.05 U	0.05 U	0.053 U	0.05 U	0.051 U	Location Dry	0.053 U	0.053 U	0.02 U
SW8081A	Heptachlor	µg/L	NA	0.05 U	0.05 U	0.053 U	0.05 U	0.051 U	Location Dry	0.053 U	0.053 U	0.02 U
SW8081A	Heptachlor epoxide	µg/L	NA	0.05 U	0.05 U	0.053 U	0.05 U	0.051 U	Location Dry	0.053 U	0.053 U	0.02 U
SW8081A	Methoxychlor	µg/L	NA	0.05 U	0.05 U	0.053 U	0.05 U	0.051 U	Location Dry	0.053 U	0.053 U	0.2 U
SW8081A	Toxaphene	µg/L	0.000068	1 U	1 U	1 U	1 U	1 U	Location Dry	1 U	1.1 U	5 U
SW8081A	Chlordane	µg/L	NA	—	—	—	—	—	Location Dry	—	—	0.99 U
SW8151	2,4,5-T	µg/L	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	Location Dry	0.21 U	0.21 U	0.2 U
SW8151	2,4,5-TP (Silvex)	µg/L	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	Location Dry	0.21 U	0.21 U	0.2 U
SW8151	2,4-D	µg/L	NA	— U	2 U	2 U	2 U	2 U	Location Dry	2.1 U	2.1 U	2 U
SW8151	2,4-DB	µg/L	NA	2 U	2 U	2 U	2 U	2 U	Location Dry	2.1 U	2.1 U	2 U
SW8151	Dalapon	µg/L	NA	5 U	5 U	5 U	5 U	5 U	Location Dry	5.3 U	5.3 U	5 U
SW8151	Dicamba	µg/L	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	Location Dry	0.21 U	0.21 U	0.2 U
SW8151	Dichlorprop	µg/L	NA	2 U	2 U	2 U	2 U	2 U	Location Dry	2.1 U	2.1 U	2 U
SW8151	Dinoseb	µg/L	NA	1 U	1 U	1 U	1 U	1 U	Location Dry	1 U	1 U	1 U
SW8151	MCPA	µg/L	NA	250 U	250 U	250 U	250 U	250 U	Location Dry	260 U	260 U	250 U
SW8151	MCPP	µg/L	NA	250 U	250 U	250 U	250 U	250 U	Location Dry	260 U	260 U	250 U
SW8151	Pentachlorophenol	µg/L	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	Location Dry	0.21 U	0.21 U	0.2 U
PCBs												
SW8082	Total PCBs	n/L	0.026	ND	ND	ND	ND	ND	Location Dry	ND	ND	ND

Notes:

Bold results exceed laboratory reporting limits.

Bold and highlighted results exceed the screening criteria.

bgs = Below ground surface

ID = Identification

µg/L = micrograms per liter, n/L = nanograms per liter

ND = No PCBs detected

NA = Not available

RSL = Regional Screening Level

SVOC = Semivolatile organic compound

TAL = Target Analyte List

U = Not detected at indicated reporting limit

U.S. EPA = United States Environmental Protection Agency

¹ Screening criteria are Ohio water quality standards for the Lake Erie drainage basin water quality criteria for Human Health Non-Drinking water (outside mixing zone) (OAC 3745-1-33 Table 33-2) , effective December 30, 2002.

— = see alpha- and gamma-Chlordane results. For SW-9, refer to Chlordane result.

Former Whirlpool Park
 Summary of Analytical Results
 Groundwater

		Field Sample ID	MW-1-062013	MW-2-062013	MW-3-062013	MW-4-062013	MW-5-062013	MW-5-062013B	MW-6-062413	
		Sampling Date	6/21/2013	6/21/2013	6/20/2013	6/20/2013	6/20/2013	6/20/2013	6/24/2013	
		Sampling Depth (feet bgs)								
Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result						
VOCs										
SW8260	1,1,1,2-Tetrachloroethane	µg/L	0.5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,1,1-Trichloroethane	µg/L	200 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,1,2,2-Tetrachloroethane	µg/L	0.066	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,1,2-Trichloroethane	µg/L	5.0 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,1-Dichloroethane	µg/L	7.0 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,1-Dichloroethene	µg/L	2.4	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,1-Dichloropropene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,2,3-Trichlorobenzene	µg/L	5.2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,2,3-Trichloropropane	µg/L	0.00065	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,2,4-Trichlorobenzene	µg/L	0.99	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,2,4-Trimethylbenzene	µg/L	15	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,2-Dibromo-3-chloropropane	µg/L	0.2 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,2-Dibromoethane	µg/L	0.05 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,2-Dichlorobenzene	µg/L	600 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,2-Dichloroethane	µg/L	5.0 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,2-Dichloropropane	µg/L	5.0 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,3,5-Trimethylbenzene	µg/L	87	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,3-Dichlorobenzene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,3-Dichloropropane	µg/L	290	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	1,4-Dichlorobenzene	µg/L	75 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	2,2-Dichloropropane	µg/L	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	2-Butanone	µg/L	4900	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	2-Chlorotoluene	µg/L	180	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	2-Hexanone	µg/L	34	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	4-Chlorotoluene	µg/L	190	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	4-Methyl-2-pentanone	µg/L	1000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Acetone	µg/L	12000	5 U	21	5 U	5 U	5 U	5 U	5 U
SW8260	Benzene	µg/L	5.0 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Bromobenzene	µg/L	54	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Bromochloromethane	µg/L	83	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Bromodichloromethane	µg/L	80 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Bromoform	µg/L	80 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Bromomethane	µg/L	7	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Carbon disulfide	µg/L	720	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Carbon tetrachloride	µg/L	5.0 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Chlorobenzene	µg/L	100 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Chloroethane	µg/L	21000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Chloroform	µg/L	80 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Chloromethane	µg/L	190	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	cis-1,2-Dichloroethene	µg/L	70 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	cis-1,3-Dichloropropene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Dibromochloromethane	µg/L	80 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Dibromomethane	µg/L	7.9	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Dichlorodifluoromethane	µg/L	190	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Ethylbenzene	µg/L	700 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Hexachlorobutadiene	µg/L	0.26	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Isopropylbenzene	µg/L	390	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Former Whirlpool Park
 Summary of Analytical Results
 Groundwater

		Field Sample ID	MW-1-062013	MW-2-062013	MW-3-062013	MW-4-062013	MW-5-062013	MW-5-062013B	MW-6-062413	
		Sampling Date	6/21/2013	6/21/2013	6/20/2013	6/20/2013	6/20/2013	6/20/2013	6/24/2013	
		Sampling Depth (feet bgs)								
Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result						
SW8260	m,p-Xylene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Methyl tert-butyl ether	µg/L	12	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Methylene chloride	µg/L	5.0 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Naphthalene	µg/L	0.14	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	n-Butylbenzene	µg/L	780	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	n-Propylbenzene	µg/L	530	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	o-Xylene	µg/L	190	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	p-Isopropyltoluene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	sec-Butylbenzene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Styrene	µg/L	100 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	tert-Butylbenzene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Tetrachloroethene	µg/L	5.0 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Toluene	µg/L	1000 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	trans-1,2-Dichloroethene	µg/L	100 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	trans-1,3-Dichloropropene	µg/L	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Trichloroethene	µg/L	5.0 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Trichlorofluoromethane	µg/L	1100	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	Vinyl chloride	µg/L	2.0 ²	2 U	2 U	2 U	2 U	2 U	2 U	2 U
SW8260	Xylenes, Total	µg/L	10000 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SVOCs										
SW8270C	1,2,4,5-Tetrachlorobenzene	µg/L	1.2	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	1,2,4-Trichlorobenzene	µg/L	70 ²	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	1,2-Dichlorobenzene	µg/L	280	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	1,3-Dichlorobenzene	µg/L	NA	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	1,3-Dinitrobenzene	µg/L	1.5	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	1,4-Dichlorobenzene	µg/L	0.42	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	1-Methylnaphthalene	µg/L	0.97	0.099 U	0.098 U	0.098 U	0.098 U	0.097 U	0.098 U	0.1 U
SW8270C	1-Naphthylamine	µg/L	NA	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	2,3,4,6-Tetrachlorophenol	µg/L	170	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	2,4,5-Trichlorophenol	µg/L	890	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	2,4,6-Trichlorophenol	µg/L	3.5	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	2,4-Dichlorophenol	µg/L	35	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	2,4-Dimethylphenol	µg/L	270	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	2,4-Dinitrophenol	µg/L	30	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	2,4-Dinitrotoluene	µg/L	0.2	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	2,6-Dichlorophenol	µg/L	NA	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	2,6-Dinitrotoluene	µg/L	15	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	2-Acetylaminofluorene	µg/L	0.013	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	2-Chloronaphthalene	µg/L	550	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	2-Chlorophenol	µg/L	71	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	2-Methylnaphthalene	µg/L	27	0.099 U	0.098 U	0.098 U	0.098 U	0.097 U	0.098 U	0.1 U
SW8270C	2-Methylphenol	µg/L	720	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	2-Naphthylamine	µg/L	0.033	20 U	20 U	20 U	20 U	19 U	20 U	21 U
SW8270C	2-Nitroaniline	µg/L	150	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	2-Nitrophenol	µg/L	NA	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	2-Picoline	µg/L	NA	20 U	20 U	20 U	20 U	19 U	20 U	21 U
SW8270C	3&4-Methylphenol	µg/L	NA	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	3,3-Dichlorobenzidine	µg/L	0.11	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U

Former Whirlpool Park
Summary of Analytical Results
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		Field Sample ID	MW-1-062013	MW-2-062013	MW-3-062013	MW-4-062013	MW-5-062013	MW-5-062013B	MW-6-062413	
		Sampling Date	6/21/2013	6/21/2013	6/20/2013	6/20/2013	6/20/2013	6/20/2013	6/24/2013	
		Sampling Depth (feet bgs)								
Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result						
SW8270C	3-Methylcholanthrene	µg/L	0.00098	20 U	20 U	20 U	20 U	19 U	20 U	21 U
SW8270C	3-Nitroaniline	µg/L	NA	20 U	20 U	20 U	20 U	19 U	20 U	21 U
SW8270C	4,6-Dinitro-2-methylphenol	µg/L	1.2	20 U	20 U	20 U	20 U	19 U	20 U	21 U
SW8270C	4-Aminobiphenyl	µg/L	0.0026	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	4-Bromophenyl phenyl ether	µg/L	NA	20 U	20 U	20 U	20 U	19 U	20 U	21 U
SW8270C	4-Chloro-3-methylphenol	µg/L	1100	20 U	20 U	20 U	20 U	19 U	20 U	21 U
SW8270C	4-Chloroaniline	µg/L	0.32	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	4-Chlorophenyl phenyl ether	µg/L	NA	20 U	20 U	20 U	20 U	19 U	20 U	21 U
SW8270C	4-Nitroaniline	µg/L	3.3	20 U	20 U	20 U	20 U	19 U	20 U	21 U
SW8270C	4-Nitrophenol	µg/L	NA	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	4-Nitroquinoline 1-oxide	µg/L	NA	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	5-Nitro-o-toluidine	µg/L	7	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	7,12-Dimethylbenz(a)anthracene	µg/L	0.000086	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Acenaphthene	µg/L	400	0.099 U	0.098 U	0.098 U	0.098 U	0.097 U	0.098 U	0.1 U
SW8270C	Acenaphthylene	µg/L	NA	0.099 U	0.098 U	0.098 U	0.098 U	0.097 U	0.098 U	0.1 U
SW8270C	Acetophenone	µg/L	1500	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Aniline	µg/L	12	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Anthracene	µg/L	1300	0.099 U	0.098 U	0.098 U	0.098 U	0.097 U	0.098 U	0.1 U
SW8270C	Azobenzene	µg/L	0.1	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Benzidine	µg/L	0.000092	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Benzo(a)anthracene	µg/L	0.029	0.099 U	0.098 U	0.098 U	0.098 U	0.097 U	0.098 U	0.1 U
SW8270C	Benzo(a)pyrene	µg/L	0.2 ²	0.099 U	0.098 U	0.098 U	0.098 U	0.097 U	0.098 U	0.1 U
SW8270C	Benzo(b)fluoranthene	µg/L	0.029	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
SW8270C	Benzo(g,h,i)perylene	µg/L	NA	0.099 U	0.098 U	0.098 U	0.098 U	0.097 U	0.098 U	0.1 U
SW8270C	Benzo(k)fluoranthene	µg/L	0.29	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
SW8270C	Benzyl alcohol	µg/L	1500	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Bis(2-chloroethoxy)methane	µg/L	46	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Bis(2-chloroethyl)ether	µg/L	0.012	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Bis(2-chloroisopropyl)ether	µg/L	0.31	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Bis(2-ethylhexyl)phthalate	µg/L	4.8	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Butyl benzyl phthalate	µg/L	14	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Carbazole	µg/L	NA	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Chrysene	µg/L	2.9	0.099 U	0.098 U	0.098 U	0.098 U	0.097 U	0.098 U	0.1 U
SW8270C	Dibenzo(a,h)anthracene	µg/L	0.0029	0.099 U	0.098 U	0.098 U	0.098 U	0.097 U	0.098 U	0.1 U
SW8270C	Dibenzofuran	µg/L	5.8	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Diethyl phthalate	µg/L	11000	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Dimethyl phthalate	µg/L	NA	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Di-n-butyl phthalate	µg/L	670	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Di-n-octyl phthalate	µg/L	190	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Dinoseb	µg/L	7 ²	20 U	20 U	20 U	20 U	19 U	20 U	21 U
SW8270C	Diphenylamine	µg/L	240	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Ethyl methanesulfonate	µg/L	NA	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Fluoranthene	µg/L	630	0.099 U	0.098 U	0.098 U	0.098 U	0.097 U	0.098 U	0.1 U
SW8270C	Fluorene	µg/L	220	0.099 U	0.098 U	0.098 U	0.098 U	0.097 U	0.098 U	0.1 U
SW8270C	Hexachlorobenzene	µg/L	1 ²	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Hexachlorobutadiene	µg/L	0.26	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Hexachlorocyclopentadiene	µg/L	50 ²	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Hexachloroethane	µg/L	0.79	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U

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		Field Sample ID	MW-1-062013	MW-2-062013	MW-3-062013	MW-4-062013	MW-5-062013	MW-5-062013B	MW-6-062413	
		Sampling Date	6/21/2013	6/21/2013	6/20/2013	6/20/2013	6/20/2013	6/20/2013	6/24/2013	
		Sampling Depth (feet bgs)								
Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result						
SW8270C	Indeno(1,2,3-cd)pyrene	µg/L	0.029	0.099 U	0.098 U	0.098 U	0.098 U	0.097 U	0.098 U	0.1 U
SW8270C	Isophorone	µg/L	67	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Isosafrole	µg/L	NA	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Methapyrilene	µg/L	NA	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Methyl methanesulfonate	µg/L	0.68	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Naphthalene	µg/L	0.14	0.099 U	0.098 U	0.098 U	0.098 U	0.097 U	0.098 U	0.1 U
SW8270C	Nitrobenzene	µg/L	0.12	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	N-Nitrosodiethylamine	µg/L	0.00014	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	N-Nitrosodimethylamine	µg/L	0.00042	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	N-Nitroso-di-n-butylamine	µg/L	0.0024	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	N-Nitrosodi-n-propylamine	µg/L	0.0093	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	N-Nitrosodiphenylamine	µg/L	10	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	N-Nitrosomorpholine	µg/L	0.01	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	N-Nitrosopiperidine	µg/L	0.0071	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	N-Nitrosopyrrolidine	µg/L	0.032	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	o-Toluidine	µg/L	NA	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	p-Dimethylaminoazobenzene	µg/L	0.0043	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Pentachlorobenzene	µg/L	2.3	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Pentachloroethane	µg/L	0.56	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Pentachloronitrobenzene	µg/L	0.1	20 U	20 U	20 U	20 U	19 U	20 U	21 U
SW8270C	Pentachlorophenol	µg/L	1.0 ²	20 U	20 U	20 U	20 U	19 U	20 U	21 U
SW8270C	Phenacetin	µg/L	30	20 U	20 U	20 U	20 U	19 U	20 U	21 U
SW8270C	Phenanthrene	µg/L	NA	0.099 U	0.098 U	0.098 U	0.098 U	0.097 U	0.098 U	0.1 U
SW8270C	Phenol	µg/L	4500	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Pyrene	µg/L	87	0.099 U	0.098 U	0.098 U	0.098 U	0.097 U	0.098 U	0.1 U
SW8270C	Pyridine	µg/L	15	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
SW8270C	Safrole	µg/L	0.083	9.9 U	9.8 U	9.8 U	9.8 U	9.7 U	9.8 U	10 U
TAL Metal (TOTAL)										
SW6010B	Aluminum	µg/L	16,000	2,400	990	3,400	2,200	1,400	1,300	200 U
SW6010B	Antimony	µg/L	6.0 ²	6 U	6 U	6 U	6 U	6 U	6 U	6 U
SW6010B	Arsenic	µg/L	10 ²	10 U	10 U	10 U	10 U	10 U	10 U	10 U
SW6010B	Barium	µg/L	2,000 ²	100 U	1,900	100 U	100 U	100 U	100 U	100 U
SW6010B	Beryllium	µg/L	4.0 ²	4 U	4 U	4 U	4 U	4 U	4 U	4 U
SW6010B	Cadmium	µg/L	5.0 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW6010B	Calcium	µg/L	NA	430,000	60,000	270,000	310,000	140,000	140,000	210,000
SW6010B	Chromium	µg/L	100 ²	20 U	20 U	20 U	20 U	20 U	20 U	20 U
SW6010B	Cobalt	µg/L	4.7	50 U	50 U	50 U	50 U	50 U	50 U	50 U
SW6010B	Copper	µg/L	1,300 ²	25 U	25 U	25 U	25 U	25 U	25 U	25 U
SW6010B	Iron	µg/L	11,000	1,900	930	4,000	2,200	290	260	1,000
SW6010B	Lead	µg/L	15 ²	15 U	15 U	15 U	15 U	15 U	15 U	15 U
SW6010B	Magnesium	µg/L	NA	110,000	680	100,000	110,000	61,000	60,000	69,000
SW6010B	Manganese	µg/L	NA	50 U	50 U	160	50 U	74	72	400
SW6010B	Nickel	µg/L	300	40 U	40 U	40 U	40 U	40 U	40 U	40 U
SW6010B	Potassium	µg/L	NA	3,700	95,000	5,100	3,700	20,000	20,000	4,000
SW6010B	Selenium	µg/L	50 ²	30 U	30 U	30 U	30 U	30 U	30 U	30 U
SW6010B	Silver	µg/L	71	10 U	10 U	10 U	10 U	10 U	10 U	10 U
SW6010B	Sodium	µg/L	NA	33,000	150,000	100,000	52,000	110,000	110,000	64,000

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		Field Sample ID	MW-1-062013	MW-2-062013	MW-3-062013	MW-4-062013	MW-5-062013	MW-5-062013B	MW-6-062413	
		Sampling Date	6/21/2013	6/21/2013	6/20/2013	6/20/2013	6/20/2013	6/20/2013	6/24/2013	
		Sampling Depth (feet bgs)								
Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result						
SW6010B	Thallium	µg/L	2.0 ²	2 U	2 U	2 U	2 U	2 U	2 U	2 U
SW6010B	Vanadium	µg/L	78	50 U	50 U	50 U	50 U	50 U	50 U	50 U
SW6010B	Zinc	µg/L	4,700	50 U	50 U	50 U	50 U	50 U	50 U	50 U
SW7471A	Mercury	µg/L	2.0 ²	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TAL Metal (DISSOLVED)										
SW6010B	Aluminum	µg/L	16,000	2,500	660	1,900	2,100	1,400	1,400	200 U
SW6010B	Antimony	µg/L	6.0 ²	6 U	6 U	6 U	6 U	6 U	6 U	6 U
SW6010B	Arsenic	µg/L	10 ²	10 U	10 U	10 U	10 U	10 U	10 U	10 U
SW6010B	Barium	µg/L	2,000 ²	100 U	1,800	100 U	100 U	100 U	100 U	100 U
SW6010B	Beryllium	µg/L	4.0 ²	4 U	4 U	4 U	4 U	4 U	4 U	4 U
SW6010B	Cadmium	µg/L	5.0 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW6010B	Calcium	µg/L	NA	410,000	57,000	270,000	300,000	140,000	140,000	210,000
SW6010B	Chromium	µg/L	100 ²	20 U	20 U	20 U	20 U	20 U	20 U	20 U
SW6010B	Cobalt	µg/L	4.7	50 U	50 U	50 U	50 U	50 U	50 U	50 U
SW6010B	Copper	µg/L	1,300 ²	25 U	25 U	25 U	25 U	25 U	25 U	25 U
SW6010B	Iron	µg/L	11,000	1,600	200 U	860	2,100	200 U	200 U	560
SW6010B	Lead	µg/L	15 ²	15 U	15 U	15 U	15 U	15 U	15 U	15 U
SW6010B	Magnesium	µg/L	NA	110,000	200 U	100,000	110,000	60,000	59,000	69,000
SW6010B	Manganese	µg/L	NA	50 U	50 U	120	50 U	72	71	400
SW6010B	Nickel	µg/L	300	40 U	40 U	40 U	40 U	40 U	40 U	40 U
SW6010B	Potassium	µg/L	NA	3,600	83,000	4,500	3,700	20,000	20,000	3,700
SW6010B	Selenium	µg/L	50 ²	30 U	30 U	30 U	30 U	30 U	30 U	30 U
SW6010B	Silver	µg/L	71	10 U	10 U	10 U	10 U	10 U	10 U	10 U
SW6010B	Sodium	µg/L	NA	31,000	150,000	100,000	51,000	110,000	100,000	63,000
SW6010B	Thallium	µg/L	2.0 ²	2 U	2 U	2 U	2 U	2 U	2 U	5 U
SW6010B	Vanadium	µg/L	78	50 U	50 U	50 U	50 U	50 U	50 U	50 U
SW6010B	Zinc	µg/L	4,700	50 U	50 U	50 U	50 U	50 U	50 U	50 U
SW7471A	Mercury	µg/L	2.0 ²	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pesticides and Herbicides										
SW8081A	4,4-DDD	µg/L	0.027	0.041 U	0.041 U	0.039 U	0.042 U	0.041 U	0.041 U	0.04 U
SW8081A	4,4-DDE	µg/L	0.2	0.041 U	0.041 U	0.039 U	0.042 U	0.041 U	0.041 U	0.04 U
SW8081A	4,4-DDT	µg/L	0.2	0.041 U	0.041 U	0.039 U	0.042 U	0.041 U	0.041 U	0.04 U
SW8081A	Aldrin	µg/L	0.004	0.02 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.02 U
SW8081A	alpha-BHC	µg/L	0.0062	0.02 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.02 U
SW8081A	beta-BHC	µg/L	0.022	0.02 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.02 U
SW8081A	Chlordane	µg/L	2.0 ²	1 U	1 U	0.98 U	1 U	1 U	1 U	1 U
SW8081A	delta-BHC	µg/L	NA	0.02 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.02 U
SW8081A	Dieldrin	µg/L	0.0015	0.041 U	0.041 U	0.039 U	0.042 U	0.041 U	0.041 U	0.04 U
SW8081A	Endosulfan I	µg/L	NA	0.02 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.02 U
SW8081A	Endosulfan II	µg/L	NA	0.041 U	0.041 U	0.039 U	0.042 U	0.041 U	0.041 U	0.04 U
SW8081A	Endosulfan sulfate	µg/L	NA	0.041 U	0.041 U	0.039 U	0.042 U	0.041 U	0.041 U	0.04 U
SW8081A	Endrin	µg/L	2 ²	0.041 U	0.041 U	0.039 U	0.042 U	0.041 U	0.041 U	0.04 U
SW8081A	Endrin aldehyde	µg/L	NA	0.041 U	0.041 U	0.039 U	0.042 U	0.041 U	0.041 U	0.04 U
SW8081A	Endrin ketone	µg/L	NA	0.041 U	0.041 U	0.039 U	0.042 U	0.041 U	0.041 U	0.04 U
SW8081A	gamma-BHC (Lindane)	µg/L	0.2 ²	0.02 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.02 U
SW8081A	Heptachlor	µg/L	0.4 ²	0.02 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.02 U
SW8081A	Heptachlor epoxide	µg/L	0.2 ²	0.02 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.02 U

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		Field Sample ID	MW-1-062013	MW-2-062013	MW-3-062013	MW-4-062013	MW-5-062013	MW-5-062013B	MW-6-062413	
		Sampling Date	6/21/2013	6/21/2013	6/20/2013	6/20/2013	6/20/2013	6/20/2013	6/24/2013	
		Sampling Depth (feet bgs)								
Analytical Method	Analytical Parameter	Unit	USEPA RSLs ¹	Result						
SW8081A	Methoxychlor	µg/L	40 ²	0.2 U	0.2 U	0.2 U	0.21 U	0.2 U	0.2 U	0.2 U
SW8081A	Toxaphene	µg/L	3.0 ²	5.1 U	5.1 U	4.9 U	5.2 U	5.1 U	5.1 U	5 U
SW8151	2,4,5-T	µg/L	120	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
SW8151	2,4,5-TP (Silvex)	µg/L	50 ²	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
SW8151	2,4-D	µg/L	70 ²	2 U	2 U	2 U	2 U	2 U	2 U	2 U
SW8151	2,4-DB	µg/L	91	2 U	2 U	2 U	2 U	2 U	2 U	2 U
SW8151	Dalapon	µg/L	200 ²	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8151	Dicamba	µg/L	440	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
SW8151	Dichlorprop	µg/L	NA	2 U	2 U	2 U	2 U	2 U	2 U	2 U
SW8151	Dinoseb	µg/L	7 ²	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8151	MCPA	µg/L	5.7	250 U	250 U	250 U	250 U	250 U	250 U	250 U
SW8151	MCPP	µg/L	12	250 U	250 U	250 U	250 U	250 U	250 U	250 U
SW8151	Pentachlorophenol	µg/L	1.0 ²	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
PCBs										
SW8082	Total PCBs	µg/L	0.5 ²	ND	ND	ND	ND	ND	ND	ND
Asbestos										
EPA 100.1	Total Asbestos	mf/L	NA	NS	<LOD	NS	NS	NS	NS	NS

Notes:

Bold results exceed laboratory reporting limits.

Bold and highlighted results exceed the screening criteria.

bgs = Below ground surface

CFR = Code of Federal Regulations

ID = Identification

LOD = Limit of Detection (0.16 mf/L)

µg/L = micrograms per liter

mf/L = millions of fibers per Liter

NS - Not sampled

ND = No PCBs detected

NA = Not available

RSL = Regional Screening Level

SVOC = Semivolatile organic compound

TAL = Target Analyte List

U = Not detected at indicated method detection limit

U.S. EPA = United States Environmental Protection Agency

1 Screening criteria are U.S. EPA RSLs (formerly preliminary remediation goals) for Tapwater listed in RSL Summary Table dated November 2012, except were noted with footnote 2.

2 Screening criteria are U.S. EPA RSLs (formerly preliminary remediation goals) for MCL dated November 2012.

Appendix L

Groundwater Laboratory Report



08-Jul-2013

Elaine Nomina
AECOM
4219 Malsbury Road
Cincinnati, OH 45242

Tel: (513) 878-6853
Fax: (513) 878-6848

Re: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: **1306628**

Dear Elaine,

ALS Environmental received 7 samples on 21-Jun-2013 05:45 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 83.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

Environmental

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RIGHT SOLUTIONS RIGHT PARTNER

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1306628

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1306628-01	TB-062013	Water		6/20/2013	6/21/2013 17:45	<input type="checkbox"/>
1306628-02	MW-3-062013	Water		6/20/2013 19:23	6/21/2013 17:45	<input type="checkbox"/>
1306628-03	MW-4-062013	Water		6/20/2013 17:00	6/21/2013 17:45	<input type="checkbox"/>
1306628-04	MW-5-062013	Water		6/20/2013 13:06	6/21/2013 17:45	<input type="checkbox"/>
1306628-05	MW-5-062013B	Water		6/20/2013 13:06	6/21/2013 17:45	<input type="checkbox"/>
1306628-06	MW-1-062013	Water		6/21/2013 09:26	6/21/2013 17:45	<input type="checkbox"/>
1306628-07	MW-2-062013	Water		6/21/2013 12:43	6/21/2013 17:45	<input type="checkbox"/>

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1306628

Case Narrative

The analyses requested were analyzed according to Ohio Voluntary Action Program requirements.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The herbicides analyses were performed by Microbac Laboratories, Marietta, OH.

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: TB-062013

Lab ID: 1306628-01

Collection Date: 6/20/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: LAK
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	6/27/2013 04:09 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	6/27/2013 04:09 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	6/27/2013 04:09 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	6/27/2013 04:09 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	6/27/2013 04:09 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	6/27/2013 04:09 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	6/27/2013 04:09 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	6/27/2013 04:09 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	6/27/2013 04:09 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	6/27/2013 04:09 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	6/27/2013 04:09 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	6/27/2013 04:09 PM
2-Butanone	ND		5.0	µg/L	1	6/27/2013 04:09 PM
2-Chlorotoluene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
2-Hexanone	ND		5.0	µg/L	1	6/27/2013 04:09 PM
4-Chlorotoluene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Acetone	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Benzene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Bromobenzene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Bromochloromethane	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Bromodichloromethane	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Bromoform	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Bromomethane	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Carbon disulfide	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Carbon tetrachloride	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Chlorobenzene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Chloroethane	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Chloroform	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Chloromethane	ND		5.0	µg/L	1	6/27/2013 04:09 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: TB-062013

Lab ID: 1306628-01

Collection Date: 6/20/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Dibromochloromethane	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Dibromomethane	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Ethylbenzene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Isopropylbenzene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
m,p-Xylene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Methylene chloride	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Naphthalene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
n-Butylbenzene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
n-Propylbenzene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
o-Xylene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
sec-Butylbenzene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Styrene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
tert-Butylbenzene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Tetrachloroethene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Toluene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Trichloroethene	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	6/27/2013 04:09 PM
Vinyl chloride	ND		2.0	µg/L	1	6/27/2013 04:09 PM
Xylenes, Total	ND		5.0	µg/L	1	6/27/2013 04:09 PM
<i>Surr: 4-Bromofluorobenzene</i>	103		61-131	%REC	1	6/27/2013 04:09 PM
<i>Surr: Dibromofluoromethane</i>	112		87-126	%REC	1	6/27/2013 04:09 PM
<i>Surr: Toluene-d8</i>	99.5		84-111	%REC	1	6/27/2013 04:09 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-3-062013

Lab ID: 1306628-02

Collection Date: 6/20/2013 07:23 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/25/2013	Analyst: SAD
4,4'-DDD	ND		0.039	µg/L	1	6/26/2013
4,4'-DDE	ND		0.039	µg/L	1	6/26/2013
4,4'-DDT	ND		0.039	µg/L	1	6/26/2013
Aldrin	ND		0.020	µg/L	1	6/26/2013
alpha-BHC	ND		0.020	µg/L	1	6/26/2013
beta-BHC	ND		0.020	µg/L	1	6/26/2013
Chlordane	ND		0.98	µg/L	1	6/26/2013
delta-BHC	ND		0.020	µg/L	1	6/26/2013
Dieldrin	ND		0.039	µg/L	1	6/26/2013
Endosulfan I	ND		0.020	µg/L	1	6/26/2013
Endosulfan II	ND		0.039	µg/L	1	6/26/2013
Endosulfan sulfate	ND		0.039	µg/L	1	6/26/2013
Endrin	ND		0.039	µg/L	1	6/26/2013
Endrin aldehyde	ND		0.039	µg/L	1	6/26/2013
Endrin ketone	ND		0.039	µg/L	1	6/26/2013
gamma-BHC (Lindane)	ND		0.020	µg/L	1	6/26/2013
Heptachlor	ND		0.020	µg/L	1	6/26/2013
Heptachlor epoxide	ND		0.020	µg/L	1	6/26/2013
Methoxychlor	ND		0.20	µg/L	1	6/26/2013
Toxaphene	ND		4.9	µg/L	1	6/26/2013
<i>Surr: Decachlorobiphenyl</i>	50.6		11-146	%REC	1	6/26/2013
<i>Surr: Tetrachloro-m-xylene</i>	97.0		35-132	%REC	1	6/26/2013
PCBS			SW8082		Prep Date: 6/25/2013	Analyst: SAD
Aroclor 1016	ND		0.49	µg/L	1	6/27/2013
Aroclor 1221	ND		0.49	µg/L	1	6/27/2013
Aroclor 1232	ND		0.49	µg/L	1	6/27/2013
Aroclor 1242	ND		0.49	µg/L	1	6/27/2013
Aroclor 1248	ND		0.49	µg/L	1	6/27/2013
Aroclor 1254	ND		0.49	µg/L	1	6/27/2013
Aroclor 1260	ND		0.49	µg/L	1	6/27/2013
<i>Surr: Decachlorobiphenyl</i>	52.4		37-108	%REC	1	6/27/2013
<i>Surr: Tetrachloro-m-xylene</i>	110		9-136	%REC	1	6/27/2013
MERCURY BY CVAA			SW7470A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	6/27/2013 02:31 PM
MERCURY BY CVAA (DISSOLVED)			SW7470A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	6/27/2013 03:42 PM
METALS BY ICP			SW6010B		Prep Date: 6/24/2013	Analyst: VAW

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-3-062013

Lab ID: 1306628-02

Collection Date: 6/20/2013 07:23 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Aluminum	3.4		0.20	mg/L	1	6/25/2013 11:46 AM
Antimony	ND		0.0060	mg/L	1	6/25/2013 11:46 AM
Arsenic	ND		0.010	mg/L	1	6/25/2013 11:46 AM
Barium	ND		0.10	mg/L	1	6/25/2013 11:46 AM
Beryllium	ND		0.0040	mg/L	1	6/25/2013 11:46 AM
Cadmium	ND		0.0050	mg/L	1	6/25/2013 11:46 AM
Calcium	270		0.20	mg/L	1	6/25/2013 11:46 AM
Chromium	ND		0.020	mg/L	1	6/25/2013 11:46 AM
Cobalt	ND		0.050	mg/L	1	6/25/2013 11:46 AM
Copper	ND		0.025	mg/L	1	6/25/2013 11:46 AM
Iron	4.0		0.20	mg/L	1	6/25/2013 11:46 AM
Lead	ND		0.015	mg/L	1	6/25/2013 11:46 AM
Magnesium	100		0.20	mg/L	1	6/25/2013 11:46 AM
Manganese	0.16		0.050	mg/L	1	6/25/2013 11:46 AM
Nickel	ND		0.040	mg/L	1	6/25/2013 11:46 AM
Potassium	5.1		0.20	mg/L	1	6/25/2013 11:46 AM
Selenium	ND		0.030	mg/L	1	6/25/2013 11:46 AM
Silver	ND		0.010	mg/L	1	6/25/2013 11:46 AM
Sodium	100		0.20	mg/L	1	6/25/2013 11:46 AM
Thallium	ND		0.0020	mg/L	1	6/25/2013 11:46 AM
Vanadium	ND		0.050	mg/L	1	6/25/2013 11:46 AM
Zinc	ND		0.050	mg/L	1	6/25/2013 11:46 AM

METALS BY ICP (DISSOLVED)

SW6010B

Prep Date: **6/24/2013**

Analyst: **VAW**

Aluminum	1.9		0.20	mg/L	1	6/25/2013 09:57 AM
Antimony	ND		0.0060	mg/L	1	6/25/2013 09:57 AM
Arsenic	ND		0.010	mg/L	1	6/25/2013 09:57 AM
Barium	ND		0.10	mg/L	1	6/25/2013 09:57 AM
Beryllium	ND		0.0040	mg/L	1	6/25/2013 09:57 AM
Cadmium	ND		0.0050	mg/L	1	6/25/2013 09:57 AM
Calcium	270		0.20	mg/L	1	6/25/2013 09:57 AM
Chromium	ND		0.020	mg/L	1	6/25/2013 09:57 AM
Cobalt	ND		0.050	mg/L	1	6/25/2013 09:57 AM
Copper	ND		0.025	mg/L	1	6/25/2013 09:57 AM
Iron	0.86		0.20	mg/L	1	6/25/2013 09:57 AM
Lead	ND		0.015	mg/L	1	6/25/2013 09:57 AM
Magnesium	100		0.20	mg/L	1	6/25/2013 09:57 AM
Manganese	0.12		0.050	mg/L	1	6/25/2013 09:57 AM
Nickel	ND		0.040	mg/L	1	6/25/2013 09:57 AM
Potassium	4.5		0.20	mg/L	1	6/25/2013 09:57 AM
Selenium	ND		0.030	mg/L	1	6/25/2013 09:57 AM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-3-062013

Lab ID: 1306628-02

Collection Date: 6/20/2013 07:23 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Silver	ND		0.010	mg/L	1	6/25/2013 09:57 AM
Sodium	100		0.20	mg/L	1	6/25/2013 09:57 AM
Thallium	ND		0.0020	mg/L	1	6/25/2013 09:57 AM
Vanadium	ND		0.050	mg/L	1	6/25/2013 09:57 AM
Zinc	ND		0.050	mg/L	1	6/25/2013 09:57 AM
HERBICIDES			SW8151		Prep Date: 6/26/2013	Analyst: Microb
2,4,5-T	ND		0.20	µg/L	1	7/1/2013 10:26 PM
2,4,5-TP (Silvex)	ND		0.20	µg/L	1	7/1/2013 10:26 PM
2,4-D	ND		2.0	µg/L	1	7/1/2013 10:26 PM
2,4-DB	ND		2.0	µg/L	1	7/1/2013 10:26 PM
Dalapon	ND		5.0	µg/L	1	7/1/2013 10:26 PM
Dicamba	ND		0.20	µg/L	1	7/1/2013 10:26 PM
Dichlorprop	ND		2.0	µg/L	1	7/1/2013 10:26 PM
Dinoseb	ND		1.0	µg/L	1	7/1/2013 10:26 PM
MCPA	ND		250	µg/L	1	7/1/2013 10:26 PM
MCPP	ND		250	µg/L	1	7/1/2013 10:26 PM
Pentachlorophenol	ND		0.20	µg/L	1	7/1/2013 10:26 PM
Surr: 2,4-Dichlorophenylacetic acid	134		20-144	%REC	1	7/1/2013 10:26 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 6/25/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		9.8	µg/L	1	6/28/2013 09:30 PM
1,2,4-Trichlorobenzene	ND		9.8	µg/L	1	6/28/2013 09:30 PM
1,2-Dichlorobenzene	ND		9.8	µg/L	1	6/28/2013 09:30 PM
1,3-Dichlorobenzene	ND		9.8	µg/L	1	6/28/2013 09:30 PM
1,3-Dinitrobenzene	ND		9.8	µg/L	1	6/28/2013 09:30 PM
1,4-Dichlorobenzene	ND		9.8	µg/L	1	6/28/2013 09:30 PM
1-Methylnaphthalene	ND		0.098	µg/L	1	6/28/2013 07:02 PM
1-Naphthylamine	ND		9.8	µg/L	1	6/28/2013 09:30 PM
2,3,4,6-Tetrachlorophenol	ND		9.8	µg/L	1	6/28/2013 09:30 PM
2,4,5-Trichlorophenol	ND		9.8	µg/L	1	6/28/2013 09:30 PM
2,4,6-Trichlorophenol	ND		9.8	µg/L	1	6/28/2013 09:30 PM
2,4-Dichlorophenol	ND		9.8	µg/L	1	6/28/2013 09:30 PM
2,4-Dimethylphenol	ND		9.8	µg/L	1	6/28/2013 09:30 PM
2,4-Dinitrophenol	ND		9.8	µg/L	1	6/28/2013 09:30 PM
2,4-Dinitrotoluene	ND		9.8	µg/L	1	6/28/2013 09:30 PM
2,6-Dichlorophenol	ND		9.8	µg/L	1	6/28/2013 09:30 PM
2,6-Dinitrotoluene	ND		9.8	µg/L	1	6/28/2013 09:30 PM
2-Acetylaminofluorene	ND		9.8	µg/L	1	6/28/2013 09:30 PM
2-Chloronaphthalene	ND		9.8	µg/L	1	6/28/2013 09:30 PM
2-Chlorophenol	ND		9.8	µg/L	1	6/28/2013 09:30 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-3-062013

Lab ID: 1306628-02

Collection Date: 6/20/2013 07:23 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND		0.098	µg/L	1	6/28/2013 07:02 PM
2-Methylphenol	ND		9.8	µg/L	1	6/28/2013 09:30 PM
2-Naphthylamine	ND		20	µg/L	1	6/28/2013 09:30 PM
2-Nitroaniline	ND		9.8	µg/L	1	6/28/2013 09:30 PM
2-Nitrophenol	ND		9.8	µg/L	1	6/28/2013 09:30 PM
2-Picoline	ND		20	µg/L	1	6/28/2013 09:30 PM
3&4-Methylphenol	ND		9.8	µg/L	1	6/28/2013 09:30 PM
3,3'-Dichlorobenzidine	ND		9.8	µg/L	1	6/28/2013 09:30 PM
3-Methylcholanthrene	ND		20	µg/L	1	6/28/2013 09:30 PM
3-Nitroaniline	ND		20	µg/L	1	6/28/2013 09:30 PM
4,6-Dinitro-2-methylphenol	ND		20	µg/L	1	6/28/2013 09:30 PM
4-Aminobiphenyl	ND		9.8	µg/L	1	6/28/2013 09:30 PM
4-Bromophenyl phenyl ether	ND		20	µg/L	1	6/28/2013 09:30 PM
4-Chloro-3-methylphenol	ND		20	µg/L	1	6/28/2013 09:30 PM
4-Chloroaniline	ND		9.8	µg/L	1	6/28/2013 09:30 PM
4-Chlorophenyl phenyl ether	ND		20	µg/L	1	6/28/2013 09:30 PM
4-Nitroaniline	ND		20	µg/L	1	6/28/2013 09:30 PM
4-Nitrophenol	ND		9.8	µg/L	1	6/28/2013 09:30 PM
4-Nitroquinoline 1-oxide	ND		9.8	µg/L	1	6/28/2013 09:30 PM
5-Nitro-o-toluidine	ND		9.8	µg/L	1	6/28/2013 09:30 PM
7,12-Dimethylbenz(a)anthracene	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Acenaphthene	ND		0.098	µg/L	1	6/28/2013 07:02 PM
Acenaphthylene	ND		0.098	µg/L	1	6/28/2013 07:02 PM
Acetophenone	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Aniline	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Anthracene	ND		0.098	µg/L	1	6/28/2013 07:02 PM
Azobenzene	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Benzidine	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Benzo(a)anthracene	ND		0.098	µg/L	1	6/28/2013 07:02 PM
Benzo(a)pyrene	ND		0.098	µg/L	1	6/28/2013 07:02 PM
Benzo(b)fluoranthene	ND		0.11	µg/L	1	6/28/2013 07:02 PM
Benzo(g,h,i)perylene	ND		0.098	µg/L	1	6/28/2013 07:02 PM
Benzo(k)fluoranthene	ND		0.16	µg/L	1	6/28/2013 07:02 PM
Benzyl alcohol	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Bis(2-chloroethoxy)methane	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Bis(2-chloroethyl)ether	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Bis(2-chloroisopropyl)ether	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Bis(2-ethylhexyl)phthalate	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Butyl benzyl phthalate	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Carbazole	ND		9.8	µg/L	1	6/28/2013 07:02 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-3-062013

Lab ID: 1306628-02

Collection Date: 6/20/2013 07:23 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Chrysene	ND		0.098	µg/L	1	6/28/2013 07:02 PM
Dibenzo(a,h)anthracene	ND		0.098	µg/L	1	6/28/2013 07:02 PM
Dibenzofuran	ND		9.8	µg/L	1	6/28/2013 07:02 PM
Diethyl phthalate	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Dimethyl phthalate	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Di-n-butyl phthalate	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Di-n-octyl phthalate	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Dinoseb	ND		20	µg/L	1	6/28/2013 09:30 PM
Diphenylamine	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Ethyl methanesulfonate	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Fluoranthene	ND		0.098	µg/L	1	6/28/2013 07:02 PM
Fluorene	ND		0.098	µg/L	1	6/28/2013 07:02 PM
Hexachlorobenzene	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Hexachlorobutadiene	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Hexachlorocyclopentadiene	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Hexachloroethane	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Indeno(1,2,3-cd)pyrene	ND		0.098	µg/L	1	6/28/2013 07:02 PM
Isophorone	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Isosafrole	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Methapyrilene	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Methyl methanesulfonate	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Naphthalene	ND		0.098	µg/L	1	6/28/2013 07:02 PM
Nitrobenzene	ND		9.8	µg/L	1	6/28/2013 09:30 PM
N-Nitrosodiethylamine	ND		9.8	µg/L	1	6/28/2013 09:30 PM
N-Nitrosodimethylamine	ND		9.8	µg/L	1	6/28/2013 09:30 PM
N-Nitroso-di-n-butylamine	ND		9.8	µg/L	1	6/28/2013 09:30 PM
N-Nitrosodi-n-propylamine	ND		9.8	µg/L	1	6/28/2013 09:30 PM
N-Nitrosomethylethylamine	ND		9.8	µg/L	1	6/28/2013 09:30 PM
N-Nitrosomorpholine	ND		9.8	µg/L	1	6/28/2013 09:30 PM
N-Nitrosopiperidine	ND		9.8	µg/L	1	6/28/2013 09:30 PM
N-Nitrosopyrrolidine	ND		9.8	µg/L	1	6/28/2013 09:30 PM
o-Toluidine	ND		9.8	µg/L	1	6/28/2013 09:30 PM
p-Dimethylaminoazobenzene	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Pentachlorobenzene	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Pentachloroethane	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Pentachloronitrobenzene	ND		20	µg/L	1	6/28/2013 09:30 PM
Pentachlorophenol	ND		20	µg/L	1	6/28/2013 09:30 PM
Phenacetin	ND		20	µg/L	1	6/28/2013 09:30 PM
Phenanthrene	ND		0.098	µg/L	1	6/28/2013 07:02 PM
Phenol	ND		9.8	µg/L	1	6/28/2013 09:30 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-3-062013

Lab ID: 1306628-02

Collection Date: 6/20/2013 07:23 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Pyrene	ND		0.098	µg/L	1	6/28/2013 07:02 PM
Pyridine	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Safrole	ND		9.8	µg/L	1	6/28/2013 09:30 PM
Surr: 2,4,6-Tribromophenol	65.7		35-120	%REC	1	6/28/2013 09:30 PM
Surr: 2-Fluorobiphenyl	48.3		38-105	%REC	1	6/28/2013 09:30 PM
Surr: 2-Fluorophenol	21.3		12-89	%REC	1	6/28/2013 09:30 PM
Surr: 4-Terphenyl-d14	86.1		42-125	%REC	1	6/28/2013 09:30 PM
Surr: Nitrobenzene-d5	46.1		28-120	%REC	1	6/28/2013 09:30 PM
Surr: Phenol-d5	20.7		10-62	%REC	1	6/28/2013 09:30 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	6/27/2013 04:40 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	6/27/2013 04:40 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	6/27/2013 04:40 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	6/27/2013 04:40 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	6/27/2013 04:40 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	6/27/2013 04:40 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	6/27/2013 04:40 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	6/27/2013 04:40 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	6/27/2013 04:40 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	6/27/2013 04:40 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	6/27/2013 04:40 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	6/27/2013 04:40 PM
2-Butanone	ND		5.0	µg/L	1	6/27/2013 04:40 PM
2-Chlorotoluene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
2-Hexanone	ND		5.0	µg/L	1	6/27/2013 04:40 PM
4-Chlorotoluene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Acetone	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Benzene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Bromobenzene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Bromochloromethane	ND		5.0	µg/L	1	6/27/2013 04:40 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-3-062013

Lab ID: 1306628-02

Collection Date: 6/20/2013 07:23 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Bromodichloromethane	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Bromoform	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Bromomethane	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Carbon disulfide	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Carbon tetrachloride	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Chlorobenzene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Chloroethane	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Chloroform	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Chloromethane	ND		5.0	µg/L	1	6/27/2013 04:40 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Dibromochloromethane	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Dibromomethane	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Ethylbenzene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Isopropylbenzene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
m,p-Xylene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Methylene chloride	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Naphthalene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
n-Butylbenzene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
n-Propylbenzene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
o-Xylene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
sec-Butylbenzene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Styrene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
tert-Butylbenzene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Tetrachloroethene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Toluene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Trichloroethene	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Vinyl chloride	ND		2.0	µg/L	1	6/27/2013 04:40 PM
Xylenes, Total	ND		5.0	µg/L	1	6/27/2013 04:40 PM
Surr: 4-Bromofluorobenzene	98.5		61-131	%REC	1	6/27/2013 04:40 PM
Surr: Dibromofluoromethane	119		87-126	%REC	1	6/27/2013 04:40 PM
Surr: Toluene-d8	108		84-111	%REC	1	6/27/2013 04:40 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-4-062013

Lab ID: 1306628-03

Collection Date: 6/20/2013 05:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/25/2013	Analyst: SAD
4,4'-DDD	ND		0.042	µg/L	1	6/26/2013
4,4'-DDE	ND		0.042	µg/L	1	6/26/2013
4,4'-DDT	ND		0.042	µg/L	1	6/26/2013
Aldrin	ND		0.021	µg/L	1	6/26/2013
alpha-BHC	ND		0.021	µg/L	1	6/26/2013
beta-BHC	ND		0.021	µg/L	1	6/26/2013
Chlordane	ND		1.0	µg/L	1	6/26/2013
delta-BHC	ND		0.021	µg/L	1	6/26/2013
Dieldrin	ND		0.042	µg/L	1	6/26/2013
Endosulfan I	ND		0.021	µg/L	1	6/26/2013
Endosulfan II	ND		0.042	µg/L	1	6/26/2013
Endosulfan sulfate	ND		0.042	µg/L	1	6/26/2013
Endrin	ND		0.042	µg/L	1	6/26/2013
Endrin aldehyde	ND		0.042	µg/L	1	6/26/2013
Endrin ketone	ND		0.042	µg/L	1	6/26/2013
gamma-BHC (Lindane)	ND		0.021	µg/L	1	6/26/2013
Heptachlor	ND		0.021	µg/L	1	6/26/2013
Heptachlor epoxide	ND		0.021	µg/L	1	6/26/2013
Methoxychlor	ND		0.21	µg/L	1	6/26/2013
Toxaphene	ND		5.2	µg/L	1	6/26/2013
<i>Surr: Decachlorobiphenyl</i>	68.6		11-146	%REC	1	6/26/2013
<i>Surr: Tetrachloro-m-xylene</i>	103		35-132	%REC	1	6/26/2013
PCBS			SW8082		Prep Date: 6/25/2013	Analyst: SAD
Aroclor 1016	ND		0.52	µg/L	1	6/27/2013
Aroclor 1221	ND		0.52	µg/L	1	6/27/2013
Aroclor 1232	ND		0.52	µg/L	1	6/27/2013
Aroclor 1242	ND		0.52	µg/L	1	6/27/2013
Aroclor 1248	ND		0.52	µg/L	1	6/27/2013
Aroclor 1254	ND		0.52	µg/L	1	6/27/2013
Aroclor 1260	ND		0.52	µg/L	1	6/27/2013
<i>Surr: Decachlorobiphenyl</i>	69.4		37-108	%REC	1	6/27/2013
<i>Surr: Tetrachloro-m-xylene</i>	106		9-136	%REC	1	6/27/2013
MERCURY BY CVAA			SW7470A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	6/27/2013 02:33 PM
MERCURY BY CVAA (DISSOLVED)			SW7470A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	6/27/2013 03:44 PM
METALS BY ICP			SW6010B		Prep Date: 6/24/2013	Analyst: VAW

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-4-062013

Lab ID: 1306628-03

Collection Date: 6/20/2013 05:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Aluminum	2.2		0.20	mg/L	1	6/25/2013 11:54 AM
Antimony	ND		0.0060	mg/L	1	6/25/2013 11:54 AM
Arsenic	ND		0.010	mg/L	1	6/25/2013 11:54 AM
Barium	ND		0.10	mg/L	1	6/25/2013 11:54 AM
Beryllium	ND		0.0040	mg/L	1	6/25/2013 11:54 AM
Cadmium	ND		0.0050	mg/L	1	6/25/2013 11:54 AM
Calcium	310		0.20	mg/L	1	6/25/2013 11:54 AM
Chromium	ND		0.020	mg/L	1	6/25/2013 11:54 AM
Cobalt	ND		0.050	mg/L	1	6/25/2013 11:54 AM
Copper	ND		0.025	mg/L	1	6/25/2013 11:54 AM
Iron	2.2		0.20	mg/L	1	6/25/2013 11:54 AM
Lead	ND		0.015	mg/L	1	6/25/2013 11:54 AM
Magnesium	110		0.20	mg/L	1	6/25/2013 11:54 AM
Manganese	ND		0.050	mg/L	1	6/25/2013 11:54 AM
Nickel	ND		0.040	mg/L	1	6/25/2013 11:54 AM
Potassium	3.7		0.20	mg/L	1	6/25/2013 11:54 AM
Selenium	ND		0.030	mg/L	1	6/25/2013 11:54 AM
Silver	ND		0.010	mg/L	1	6/25/2013 11:54 AM
Sodium	52		0.20	mg/L	1	6/25/2013 11:54 AM
Thallium	ND		0.0020	mg/L	1	6/25/2013 11:54 AM
Vanadium	ND		0.050	mg/L	1	6/25/2013 11:54 AM
Zinc	ND		0.050	mg/L	1	6/25/2013 11:54 AM

METALS BY ICP (DISSOLVED)

SW6010B

Prep Date: 6/24/2013

Analyst: VAW

Aluminum	2.1		0.20	mg/L	1	6/25/2013 10:19 AM
Antimony	ND		0.0060	mg/L	1	6/25/2013 10:19 AM
Arsenic	ND		0.010	mg/L	1	6/25/2013 10:19 AM
Barium	ND		0.10	mg/L	1	6/25/2013 10:19 AM
Beryllium	ND		0.0040	mg/L	1	6/25/2013 10:19 AM
Cadmium	ND		0.0050	mg/L	1	6/25/2013 10:19 AM
Calcium	300		0.20	mg/L	1	6/25/2013 10:19 AM
Chromium	ND		0.020	mg/L	1	6/25/2013 10:19 AM
Cobalt	ND		0.050	mg/L	1	6/25/2013 10:19 AM
Copper	ND		0.025	mg/L	1	6/25/2013 10:19 AM
Iron	2.1		0.20	mg/L	1	6/25/2013 10:19 AM
Lead	ND		0.015	mg/L	1	6/25/2013 10:19 AM
Magnesium	110		0.20	mg/L	1	6/25/2013 10:19 AM
Manganese	ND		0.050	mg/L	1	6/25/2013 10:19 AM
Nickel	ND		0.040	mg/L	1	6/25/2013 10:19 AM
Potassium	3.7		0.20	mg/L	1	6/25/2013 10:19 AM
Selenium	ND		0.030	mg/L	1	6/25/2013 10:19 AM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-4-062013

Lab ID: 1306628-03

Collection Date: 6/20/2013 05:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Silver	ND		0.010	mg/L	1	6/25/2013 10:19 AM
Sodium	51		0.20	mg/L	1	6/25/2013 10:19 AM
Thallium	ND		0.0020	mg/L	1	6/25/2013 10:19 AM
Vanadium	ND		0.050	mg/L	1	6/25/2013 10:19 AM
Zinc	ND		0.050	mg/L	1	6/25/2013 10:19 AM
HERBICIDES			SW8151		Prep Date: 6/26/2013	Analyst: Microb
2,4,5-T	ND		0.20	µg/L	1	7/1/2013 10:52 PM
2,4,5-TP (Silvex)	ND		0.20	µg/L	1	7/1/2013 10:52 PM
2,4-D	ND		2.0	µg/L	1	7/1/2013 10:52 PM
2,4-DB	ND		2.0	µg/L	1	7/1/2013 10:52 PM
Dalapon	ND		5.0	µg/L	1	7/1/2013 10:52 PM
Dicamba	ND		0.20	µg/L	1	7/1/2013 10:52 PM
Dichlorprop	ND		2.0	µg/L	1	7/1/2013 10:52 PM
Dinoseb	ND		1.0	µg/L	1	7/1/2013 10:52 PM
MCPA	ND		250	µg/L	1	7/1/2013 10:52 PM
MCPP	ND		250	µg/L	1	7/1/2013 10:52 PM
Pentachlorophenol	ND		0.20	µg/L	1	7/1/2013 10:52 PM
Surr: 2,4-Dichlorophenylacetic acid	135		20-144	%REC	1	7/1/2013 10:52 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 6/25/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		9.8	µg/L	1	6/28/2013 10:05 PM
1,2,4-Trichlorobenzene	ND		9.8	µg/L	1	6/28/2013 10:05 PM
1,2-Dichlorobenzene	ND		9.8	µg/L	1	6/28/2013 10:05 PM
1,3-Dichlorobenzene	ND		9.8	µg/L	1	6/28/2013 10:05 PM
1,3-Dinitrobenzene	ND		9.8	µg/L	1	6/28/2013 10:05 PM
1,4-Dichlorobenzene	ND		9.8	µg/L	1	6/28/2013 10:05 PM
1-Methylnaphthalene	ND		0.098	µg/L	1	6/28/2013 07:33 PM
1-Naphthylamine	ND		9.8	µg/L	1	6/28/2013 10:05 PM
2,3,4,6-Tetrachlorophenol	ND		9.8	µg/L	1	6/28/2013 10:05 PM
2,4,5-Trichlorophenol	ND		9.8	µg/L	1	6/28/2013 10:05 PM
2,4,6-Trichlorophenol	ND		9.8	µg/L	1	6/28/2013 10:05 PM
2,4-Dichlorophenol	ND		9.8	µg/L	1	6/28/2013 10:05 PM
2,4-Dimethylphenol	ND		9.8	µg/L	1	6/28/2013 10:05 PM
2,4-Dinitrophenol	ND		9.8	µg/L	1	6/28/2013 10:05 PM
2,4-Dinitrotoluene	ND		9.8	µg/L	1	6/28/2013 10:05 PM
2,6-Dichlorophenol	ND		9.8	µg/L	1	6/28/2013 10:05 PM
2,6-Dinitrotoluene	ND		9.8	µg/L	1	6/28/2013 10:05 PM
2-Acetylaminofluorene	ND		9.8	µg/L	1	6/28/2013 10:05 PM
2-Chloronaphthalene	ND		9.8	µg/L	1	6/28/2013 10:05 PM
2-Chlorophenol	ND		9.8	µg/L	1	6/28/2013 10:05 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-4-062013

Lab ID: 1306628-03

Collection Date: 6/20/2013 05:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND		0.098	µg/L	1	6/28/2013 07:33 PM
2-Methylphenol	ND		9.8	µg/L	1	6/28/2013 10:05 PM
2-Naphthylamine	ND		20	µg/L	1	6/28/2013 10:05 PM
2-Nitroaniline	ND		9.8	µg/L	1	6/28/2013 10:05 PM
2-Nitrophenol	ND		9.8	µg/L	1	6/28/2013 10:05 PM
2-Picoline	ND		20	µg/L	1	6/28/2013 10:05 PM
3&4-Methylphenol	ND		9.8	µg/L	1	6/28/2013 10:05 PM
3,3'-Dichlorobenzidine	ND		9.8	µg/L	1	6/28/2013 10:05 PM
3-Methylcholanthrene	ND		20	µg/L	1	6/28/2013 10:05 PM
3-Nitroaniline	ND		20	µg/L	1	6/28/2013 10:05 PM
4,6-Dinitro-2-methylphenol	ND		20	µg/L	1	6/28/2013 10:05 PM
4-Aminobiphenyl	ND		9.8	µg/L	1	6/28/2013 10:05 PM
4-Bromophenyl phenyl ether	ND		20	µg/L	1	6/28/2013 10:05 PM
4-Chloro-3-methylphenol	ND		20	µg/L	1	6/28/2013 10:05 PM
4-Chloroaniline	ND		9.8	µg/L	1	6/28/2013 10:05 PM
4-Chlorophenyl phenyl ether	ND		20	µg/L	1	6/28/2013 10:05 PM
4-Nitroaniline	ND		20	µg/L	1	6/28/2013 10:05 PM
4-Nitrophenol	ND		9.8	µg/L	1	6/28/2013 10:05 PM
4-Nitroquinoline 1-oxide	ND		9.8	µg/L	1	6/28/2013 10:05 PM
5-Nitro-o-toluidine	ND		9.8	µg/L	1	6/28/2013 10:05 PM
7,12-Dimethylbenz(a)anthracene	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Acenaphthene	ND		0.098	µg/L	1	6/28/2013 07:33 PM
Acenaphthylene	ND		0.098	µg/L	1	6/28/2013 07:33 PM
Acetophenone	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Aniline	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Anthracene	ND		0.098	µg/L	1	6/28/2013 07:33 PM
Azobenzene	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Benzidine	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Benzo(a)anthracene	ND		0.098	µg/L	1	6/28/2013 07:33 PM
Benzo(a)pyrene	ND		0.098	µg/L	1	6/28/2013 07:33 PM
Benzo(b)fluoranthene	ND		0.11	µg/L	1	6/28/2013 07:33 PM
Benzo(g,h,i)perylene	ND		0.098	µg/L	1	6/28/2013 07:33 PM
Benzo(k)fluoranthene	ND		0.16	µg/L	1	6/28/2013 07:33 PM
Benzyl alcohol	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Bis(2-chloroethoxy)methane	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Bis(2-chloroethyl)ether	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Bis(2-chloroisopropyl)ether	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Bis(2-ethylhexyl)phthalate	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Butyl benzyl phthalate	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Carbazole	ND		9.8	µg/L	1	6/28/2013 07:33 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-4-062013

Lab ID: 1306628-03

Collection Date: 6/20/2013 05:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Chrysene	ND		0.098	µg/L	1	6/28/2013 07:33 PM
Dibenzo(a,h)anthracene	ND		0.098	µg/L	1	6/28/2013 07:33 PM
Dibenzofuran	ND		9.8	µg/L	1	6/28/2013 07:33 PM
Diethyl phthalate	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Dimethyl phthalate	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Di-n-butyl phthalate	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Di-n-octyl phthalate	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Dinoseb	ND		20	µg/L	1	6/28/2013 10:05 PM
Diphenylamine	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Ethyl methanesulfonate	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Fluoranthene	ND		0.098	µg/L	1	6/28/2013 07:33 PM
Fluorene	ND		0.098	µg/L	1	6/28/2013 07:33 PM
Hexachlorobenzene	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Hexachlorobutadiene	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Hexachlorocyclopentadiene	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Hexachloroethane	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Indeno(1,2,3-cd)pyrene	ND		0.098	µg/L	1	6/28/2013 07:33 PM
Isophorone	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Isosafrole	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Methapyrilene	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Methyl methanesulfonate	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Naphthalene	ND		0.098	µg/L	1	6/28/2013 07:33 PM
Nitrobenzene	ND		9.8	µg/L	1	6/28/2013 10:05 PM
N-Nitrosodiethylamine	ND		9.8	µg/L	1	6/28/2013 10:05 PM
N-Nitrosodimethylamine	ND		9.8	µg/L	1	6/28/2013 10:05 PM
N-Nitroso-di-n-butylamine	ND		9.8	µg/L	1	6/28/2013 10:05 PM
N-Nitrosodi-n-propylamine	ND		9.8	µg/L	1	6/28/2013 10:05 PM
N-Nitrosomethylethylamine	ND		9.8	µg/L	1	6/28/2013 10:05 PM
N-Nitrosomorpholine	ND		9.8	µg/L	1	6/28/2013 10:05 PM
N-Nitrosopiperidine	ND		9.8	µg/L	1	6/28/2013 10:05 PM
N-Nitrosopyrrolidine	ND		9.8	µg/L	1	6/28/2013 10:05 PM
o-Toluidine	ND		9.8	µg/L	1	6/28/2013 10:05 PM
p-Dimethylaminoazobenzene	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Pentachlorobenzene	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Pentachloroethane	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Pentachloronitrobenzene	ND		20	µg/L	1	6/28/2013 10:05 PM
Pentachlorophenol	ND		20	µg/L	1	6/28/2013 10:05 PM
Phenacetin	ND		20	µg/L	1	6/28/2013 10:05 PM
Phenanthrene	ND		0.098	µg/L	1	6/28/2013 07:33 PM
Phenol	ND		9.8	µg/L	1	6/28/2013 10:05 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-4-062013

Lab ID: 1306628-03

Collection Date: 6/20/2013 05:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Pyrene	ND		0.098	µg/L	1	6/28/2013 07:33 PM
Pyridine	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Safrole	ND		9.8	µg/L	1	6/28/2013 10:05 PM
Surr: 2,4,6-Tribromophenol	78.4		35-120	%REC	1	6/28/2013 10:05 PM
Surr: 2-Fluorobiphenyl	64.6		38-105	%REC	1	6/28/2013 10:05 PM
Surr: 2-Fluorophenol	30.8		12-89	%REC	1	6/28/2013 10:05 PM
Surr: 4-Terphenyl-d14	90.1		42-125	%REC	1	6/28/2013 10:05 PM
Surr: Nitrobenzene-d5	62.3		28-120	%REC	1	6/28/2013 10:05 PM
Surr: Phenol-d5	27.0		10-62	%REC	1	6/28/2013 10:05 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	6/27/2013 05:11 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	6/27/2013 05:11 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	6/27/2013 05:11 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	6/27/2013 05:11 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	6/27/2013 05:11 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	6/27/2013 05:11 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	6/27/2013 05:11 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	6/27/2013 05:11 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	6/27/2013 05:11 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	6/27/2013 05:11 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	6/27/2013 05:11 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	6/27/2013 05:11 PM
2-Butanone	ND		5.0	µg/L	1	6/27/2013 05:11 PM
2-Chlorotoluene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
2-Hexanone	ND		5.0	µg/L	1	6/27/2013 05:11 PM
4-Chlorotoluene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Acetone	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Benzene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Bromobenzene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Bromochloromethane	ND		5.0	µg/L	1	6/27/2013 05:11 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-4-062013

Lab ID: 1306628-03

Collection Date: 6/20/2013 05:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Bromodichloromethane	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Bromoform	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Bromomethane	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Carbon disulfide	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Carbon tetrachloride	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Chlorobenzene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Chloroethane	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Chloroform	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Chloromethane	ND		5.0	µg/L	1	6/27/2013 05:11 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Dibromochloromethane	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Dibromomethane	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Ethylbenzene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Isopropylbenzene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
m,p-Xylene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Methylene chloride	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Naphthalene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
n-Butylbenzene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
n-Propylbenzene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
o-Xylene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
sec-Butylbenzene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Styrene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
tert-Butylbenzene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Tetrachloroethene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Toluene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Trichloroethene	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Vinyl chloride	ND		2.0	µg/L	1	6/27/2013 05:11 PM
Xylenes, Total	ND		5.0	µg/L	1	6/27/2013 05:11 PM
Surr: 4-Bromofluorobenzene	97.9		61-131	%REC	1	6/27/2013 05:11 PM
Surr: Dibromofluoromethane	107		87-126	%REC	1	6/27/2013 05:11 PM
Surr: Toluene-d8	108		84-111	%REC	1	6/27/2013 05:11 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-5-062013

Lab ID: 1306628-04

Collection Date: 6/20/2013 01:06 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/25/2013	Analyst: SAD
4,4'-DDD	ND		0.041	µg/L	1	6/26/2013
4,4'-DDE	ND		0.041	µg/L	1	6/26/2013
4,4'-DDT	ND		0.041	µg/L	1	6/26/2013
Aldrin	ND		0.020	µg/L	1	6/26/2013
alpha-BHC	ND		0.020	µg/L	1	6/26/2013
beta-BHC	ND		0.020	µg/L	1	6/26/2013
Chlordane	ND		1.0	µg/L	1	6/26/2013
delta-BHC	ND		0.020	µg/L	1	6/26/2013
Dieldrin	ND		0.041	µg/L	1	6/26/2013
Endosulfan I	ND		0.020	µg/L	1	6/26/2013
Endosulfan II	ND		0.041	µg/L	1	6/26/2013
Endosulfan sulfate	ND		0.041	µg/L	1	6/26/2013
Endrin	ND		0.041	µg/L	1	6/26/2013
Endrin aldehyde	ND		0.041	µg/L	1	6/26/2013
Endrin ketone	ND		0.041	µg/L	1	6/26/2013
gamma-BHC (Lindane)	ND		0.020	µg/L	1	6/26/2013
Heptachlor	ND		0.020	µg/L	1	6/26/2013
Heptachlor epoxide	ND		0.020	µg/L	1	6/26/2013
Methoxychlor	ND		0.20	µg/L	1	6/26/2013
Toxaphene	ND		5.1	µg/L	1	6/26/2013
<i>Surr: Decachlorobiphenyl</i>	79.6		11-146	%REC	1	6/26/2013
<i>Surr: Tetrachloro-m-xylene</i>	98.4		35-132	%REC	1	6/26/2013
PCBS			SW8082		Prep Date: 6/25/2013	Analyst: SAD
Aroclor 1016	ND		0.51	µg/L	1	6/27/2013
Aroclor 1221	ND		0.51	µg/L	1	6/27/2013
Aroclor 1232	ND		0.51	µg/L	1	6/27/2013
Aroclor 1242	ND		0.51	µg/L	1	6/27/2013
Aroclor 1248	ND		0.51	µg/L	1	6/27/2013
Aroclor 1254	ND		0.51	µg/L	1	6/27/2013
Aroclor 1260	ND		0.51	µg/L	1	6/27/2013
<i>Surr: Decachlorobiphenyl</i>	81.0		37-108	%REC	1	6/27/2013
<i>Surr: Tetrachloro-m-xylene</i>	105		9-136	%REC	1	6/27/2013
MERCURY BY CVAA			SW7470A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	6/27/2013 02:35 PM
MERCURY BY CVAA (DISSOLVED)			SW7470A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	6/27/2013 03:47 PM
METALS BY ICP			SW6010B		Prep Date: 6/24/2013	Analyst: VAW

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-5-062013

Lab ID: 1306628-04

Collection Date: 6/20/2013 01:06 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Aluminum	1.4		0.20	mg/L	1	6/25/2013 12:01 PM
Antimony	ND		0.0060	mg/L	1	6/25/2013 12:01 PM
Arsenic	ND		0.010	mg/L	1	6/25/2013 12:01 PM
Barium	ND		0.10	mg/L	1	6/25/2013 12:01 PM
Beryllium	ND		0.0040	mg/L	1	6/25/2013 12:01 PM
Cadmium	ND		0.0050	mg/L	1	6/25/2013 12:01 PM
Calcium	140		0.20	mg/L	1	6/25/2013 12:01 PM
Chromium	ND		0.020	mg/L	1	6/25/2013 12:01 PM
Cobalt	ND		0.050	mg/L	1	6/25/2013 12:01 PM
Copper	ND		0.025	mg/L	1	6/25/2013 12:01 PM
Iron	0.29		0.20	mg/L	1	6/25/2013 12:01 PM
Lead	ND		0.015	mg/L	1	6/25/2013 12:01 PM
Magnesium	61		0.20	mg/L	1	6/25/2013 12:01 PM
Manganese	0.074		0.050	mg/L	1	6/25/2013 12:01 PM
Nickel	ND		0.040	mg/L	1	6/25/2013 12:01 PM
Potassium	20		0.20	mg/L	1	6/25/2013 12:01 PM
Selenium	ND		0.030	mg/L	1	6/25/2013 12:01 PM
Silver	ND		0.010	mg/L	1	6/25/2013 12:01 PM
Sodium	110		0.20	mg/L	1	6/25/2013 12:01 PM
Thallium	ND		0.0020	mg/L	1	6/25/2013 12:01 PM
Vanadium	ND		0.050	mg/L	1	6/25/2013 12:01 PM
Zinc	ND		0.050	mg/L	1	6/25/2013 12:01 PM

METALS BY ICP (DISSOLVED)

SW6010B

Prep Date: 6/24/2013

Analyst: VAW

Aluminum	1.4		0.20	mg/L	1	6/25/2013 10:27 AM
Antimony	ND		0.0060	mg/L	1	6/25/2013 10:27 AM
Arsenic	ND		0.010	mg/L	1	6/25/2013 10:27 AM
Barium	ND		0.10	mg/L	1	6/25/2013 10:27 AM
Beryllium	ND		0.0040	mg/L	1	6/25/2013 10:27 AM
Cadmium	ND		0.0050	mg/L	1	6/25/2013 10:27 AM
Calcium	140		0.20	mg/L	1	6/25/2013 10:27 AM
Chromium	ND		0.020	mg/L	1	6/25/2013 10:27 AM
Cobalt	ND		0.050	mg/L	1	6/25/2013 10:27 AM
Copper	ND		0.025	mg/L	1	6/25/2013 10:27 AM
Iron	ND		0.20	mg/L	1	6/25/2013 10:27 AM
Lead	ND		0.015	mg/L	1	6/25/2013 10:27 AM
Magnesium	60		0.20	mg/L	1	6/25/2013 10:27 AM
Manganese	0.072		0.050	mg/L	1	6/25/2013 10:27 AM
Nickel	ND		0.040	mg/L	1	6/25/2013 10:27 AM
Potassium	20		0.20	mg/L	1	6/25/2013 10:27 AM
Selenium	ND		0.030	mg/L	1	6/25/2013 10:27 AM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-5-062013

Lab ID: 1306628-04

Collection Date: 6/20/2013 01:06 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Silver	ND		0.010	mg/L	1	6/25/2013 10:27 AM
Sodium	110		0.20	mg/L	1	6/25/2013 10:27 AM
Thallium	ND		0.0020	mg/L	1	6/25/2013 10:27 AM
Vanadium	ND		0.050	mg/L	1	6/25/2013 10:27 AM
Zinc	ND		0.050	mg/L	1	6/25/2013 10:27 AM
HERBICIDES			SW8151		Prep Date: 6/26/2013	Analyst: Microb
2,4,5-T	ND		0.20	µg/L	1	7/1/2013 01:18 PM
2,4,5-TP (Silvex)	ND		0.20	µg/L	1	7/1/2013 01:18 PM
2,4-D	ND		2.0	µg/L	1	7/1/2013 01:18 PM
2,4-DB	ND		2.0	µg/L	1	7/1/2013 01:18 PM
Dalapon	ND		5.0	µg/L	1	7/1/2013 01:18 PM
Dicamba	ND		0.20	µg/L	1	7/1/2013 01:18 PM
Dichlorprop	ND		2.0	µg/L	1	7/1/2013 01:18 PM
Dinoseb	ND		1.0	µg/L	1	7/1/2013 01:18 PM
MCPA	ND		250	µg/L	1	7/1/2013 01:18 PM
MCPP	ND		250	µg/L	1	7/1/2013 01:18 PM
Pentachlorophenol	ND		0.20	µg/L	1	7/1/2013 01:18 PM
Surr: 2,4-Dichlorophenylacetic acid	109		20-144	%REC	1	7/1/2013 01:18 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 6/25/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		9.7	µg/L	1	6/28/2013 10:40 PM
1,2,4-Trichlorobenzene	ND		9.7	µg/L	1	6/28/2013 10:40 PM
1,2-Dichlorobenzene	ND		9.7	µg/L	1	6/28/2013 10:40 PM
1,3-Dichlorobenzene	ND		9.7	µg/L	1	6/28/2013 10:40 PM
1,3-Dinitrobenzene	ND		9.7	µg/L	1	6/28/2013 10:40 PM
1,4-Dichlorobenzene	ND		9.7	µg/L	1	6/28/2013 10:40 PM
1-Methylnaphthalene	ND		0.097	µg/L	1	6/28/2013 08:04 PM
1-Naphthylamine	ND		9.7	µg/L	1	6/28/2013 10:40 PM
2,3,4,6-Tetrachlorophenol	ND		9.7	µg/L	1	6/28/2013 10:40 PM
2,4,5-Trichlorophenol	ND		9.7	µg/L	1	6/28/2013 10:40 PM
2,4,6-Trichlorophenol	ND		9.7	µg/L	1	6/28/2013 10:40 PM
2,4-Dichlorophenol	ND		9.7	µg/L	1	6/28/2013 10:40 PM
2,4-Dimethylphenol	ND		9.7	µg/L	1	6/28/2013 10:40 PM
2,4-Dinitrophenol	ND		9.7	µg/L	1	6/28/2013 10:40 PM
2,4-Dinitrotoluene	ND		9.7	µg/L	1	6/28/2013 10:40 PM
2,6-Dichlorophenol	ND		9.7	µg/L	1	6/28/2013 10:40 PM
2,6-Dinitrotoluene	ND		9.7	µg/L	1	6/28/2013 10:40 PM
2-Acetylaminofluorene	ND		9.7	µg/L	1	6/28/2013 10:40 PM
2-Chloronaphthalene	ND		9.7	µg/L	1	6/28/2013 10:40 PM
2-Chlorophenol	ND		9.7	µg/L	1	6/28/2013 10:40 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-5-062013

Lab ID: 1306628-04

Collection Date: 6/20/2013 01:06 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND		0.097	µg/L	1	6/28/2013 08:04 PM
2-Methylphenol	ND		9.7	µg/L	1	6/28/2013 10:40 PM
2-Naphthylamine	ND		19	µg/L	1	6/28/2013 10:40 PM
2-Nitroaniline	ND		9.7	µg/L	1	6/28/2013 10:40 PM
2-Nitrophenol	ND		9.7	µg/L	1	6/28/2013 10:40 PM
2-Picoline	ND		19	µg/L	1	6/28/2013 10:40 PM
3&4-Methylphenol	ND		9.7	µg/L	1	6/28/2013 10:40 PM
3,3'-Dichlorobenzidine	ND		9.7	µg/L	1	6/28/2013 10:40 PM
3-Methylcholanthrene	ND		19	µg/L	1	6/28/2013 10:40 PM
3-Nitroaniline	ND		19	µg/L	1	6/28/2013 10:40 PM
4,6-Dinitro-2-methylphenol	ND		19	µg/L	1	6/28/2013 10:40 PM
4-Aminobiphenyl	ND		9.7	µg/L	1	6/28/2013 10:40 PM
4-Bromophenyl phenyl ether	ND		19	µg/L	1	6/28/2013 10:40 PM
4-Chloro-3-methylphenol	ND		19	µg/L	1	6/28/2013 10:40 PM
4-Chloroaniline	ND		9.7	µg/L	1	6/28/2013 10:40 PM
4-Chlorophenyl phenyl ether	ND		19	µg/L	1	6/28/2013 10:40 PM
4-Nitroaniline	ND		19	µg/L	1	6/28/2013 10:40 PM
4-Nitrophenol	ND		9.7	µg/L	1	6/28/2013 10:40 PM
4-Nitroquinoline 1-oxide	ND		9.7	µg/L	1	6/28/2013 10:40 PM
5-Nitro-o-toluidine	ND		9.7	µg/L	1	6/28/2013 10:40 PM
7,12-Dimethylbenz(a)anthracene	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Acenaphthene	ND		0.097	µg/L	1	6/28/2013 08:04 PM
Acenaphthylene	ND		0.097	µg/L	1	6/28/2013 08:04 PM
Acetophenone	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Aniline	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Anthracene	ND		0.097	µg/L	1	6/28/2013 08:04 PM
Azobenzene	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Benzidine	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Benzo(a)anthracene	ND		0.097	µg/L	1	6/28/2013 08:04 PM
Benzo(a)pyrene	ND		0.097	µg/L	1	6/28/2013 08:04 PM
Benzo(b)fluoranthene	ND		0.11	µg/L	1	6/28/2013 08:04 PM
Benzo(g,h,i)perylene	ND		0.097	µg/L	1	6/28/2013 08:04 PM
Benzo(k)fluoranthene	ND		0.16	µg/L	1	6/28/2013 08:04 PM
Benzyl alcohol	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Bis(2-chloroethoxy)methane	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Bis(2-chloroethyl)ether	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Bis(2-chloroisopropyl)ether	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Bis(2-ethylhexyl)phthalate	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Butyl benzyl phthalate	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Carbazole	ND		9.7	µg/L	1	6/28/2013 08:04 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-5-062013

Lab ID: 1306628-04

Collection Date: 6/20/2013 01:06 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Chrysene	ND		0.097	µg/L	1	6/28/2013 08:04 PM
Dibenzo(a,h)anthracene	ND		0.097	µg/L	1	6/28/2013 08:04 PM
Dibenzofuran	ND		9.7	µg/L	1	6/28/2013 08:04 PM
Diethyl phthalate	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Dimethyl phthalate	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Di-n-butyl phthalate	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Di-n-octyl phthalate	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Dinoseb	ND		19	µg/L	1	6/28/2013 10:40 PM
Diphenylamine	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Ethyl methanesulfonate	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Fluoranthene	ND		0.097	µg/L	1	6/28/2013 08:04 PM
Fluorene	ND		0.097	µg/L	1	6/28/2013 08:04 PM
Hexachlorobenzene	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Hexachlorobutadiene	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Hexachlorocyclopentadiene	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Hexachloroethane	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Indeno(1,2,3-cd)pyrene	ND		0.097	µg/L	1	6/28/2013 08:04 PM
Isophorone	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Isosafrole	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Methapyrilene	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Methyl methanesulfonate	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Naphthalene	ND		0.097	µg/L	1	6/28/2013 08:04 PM
Nitrobenzene	ND		9.7	µg/L	1	6/28/2013 10:40 PM
N-Nitrosodiethylamine	ND		9.7	µg/L	1	6/28/2013 10:40 PM
N-Nitrosodimethylamine	ND		9.7	µg/L	1	6/28/2013 10:40 PM
N-Nitroso-di-n-butylamine	ND		9.7	µg/L	1	6/28/2013 10:40 PM
N-Nitrosodi-n-propylamine	ND		9.7	µg/L	1	6/28/2013 10:40 PM
N-Nitrosomethylethylamine	ND		9.7	µg/L	1	6/28/2013 10:40 PM
N-Nitrosomorpholine	ND		9.7	µg/L	1	6/28/2013 10:40 PM
N-Nitrosopiperidine	ND		9.7	µg/L	1	6/28/2013 10:40 PM
N-Nitrosopyrrolidine	ND		9.7	µg/L	1	6/28/2013 10:40 PM
o-Toluidine	ND		9.7	µg/L	1	6/28/2013 10:40 PM
p-Dimethylaminoazobenzene	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Pentachlorobenzene	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Pentachloroethane	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Pentachloronitrobenzene	ND		19	µg/L	1	6/28/2013 10:40 PM
Pentachlorophenol	ND		19	µg/L	1	6/28/2013 10:40 PM
Phenacetin	ND		19	µg/L	1	6/28/2013 10:40 PM
Phenanthrene	ND		0.097	µg/L	1	6/28/2013 08:04 PM
Phenol	ND		9.7	µg/L	1	6/28/2013 10:40 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-5-062013

Lab ID: 1306628-04

Collection Date: 6/20/2013 01:06 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Pyrene	ND		0.097	µg/L	1	6/28/2013 08:04 PM
Pyridine	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Safrole	ND		9.7	µg/L	1	6/28/2013 10:40 PM
Surr: 2,4,6-Tribromophenol	71.0		35-120	%REC	1	6/28/2013 10:40 PM
Surr: 2-Fluorobiphenyl	57.5		38-105	%REC	1	6/28/2013 10:40 PM
Surr: 2-Fluorophenol	25.0		12-89	%REC	1	6/28/2013 10:40 PM
Surr: 4-Terphenyl-d14	84.7		42-125	%REC	1	6/28/2013 10:40 PM
Surr: Nitrobenzene-d5	56.5		28-120	%REC	1	6/28/2013 10:40 PM
Surr: Phenol-d5	25.2		10-62	%REC	1	6/28/2013 10:40 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	6/28/2013 03:43 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	6/28/2013 03:43 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	6/28/2013 03:43 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	6/28/2013 03:43 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	6/28/2013 03:43 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	6/28/2013 03:43 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	6/28/2013 03:43 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	6/28/2013 03:43 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	6/28/2013 03:43 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	6/28/2013 03:43 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	6/28/2013 03:43 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	6/28/2013 03:43 PM
2-Butanone	ND		5.0	µg/L	1	6/28/2013 03:43 PM
2-Chlorotoluene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
2-Hexanone	ND		5.0	µg/L	1	6/28/2013 03:43 PM
4-Chlorotoluene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Acetone	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Benzene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Bromobenzene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Bromochloromethane	ND		5.0	µg/L	1	6/28/2013 03:43 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-5-062013

Lab ID: 1306628-04

Collection Date: 6/20/2013 01:06 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Bromodichloromethane	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Bromoform	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Bromomethane	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Carbon disulfide	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Carbon tetrachloride	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Chlorobenzene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Chloroethane	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Chloroform	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Chloromethane	ND		5.0	µg/L	1	6/28/2013 03:43 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Dibromochloromethane	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Dibromomethane	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Ethylbenzene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Isopropylbenzene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
m,p-Xylene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Methylene chloride	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Naphthalene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
n-Butylbenzene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
n-Propylbenzene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
o-Xylene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
sec-Butylbenzene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Styrene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
tert-Butylbenzene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Tetrachloroethene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Toluene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Trichloroethene	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Vinyl chloride	ND		2.0	µg/L	1	6/28/2013 03:43 PM
Xylenes, Total	ND		5.0	µg/L	1	6/28/2013 03:43 PM
Surr: 4-Bromofluorobenzene	91.3		61-131	%REC	1	6/28/2013 03:43 PM
Surr: Dibromofluoromethane	98.3		87-126	%REC	1	6/28/2013 03:43 PM
Surr: Toluene-d8	99.3		84-111	%REC	1	6/28/2013 03:43 PM

ALKALINITY BY TITRATION

E310.1

Analyst: YCL

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-5-062013

Lab ID: 1306628-04

Collection Date: 6/20/2013 01:06 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity, Total (as CaCO3)	44		4.0	mg/L	1	6/27/2013
PH			E9040B			Analyst: YCL
pH	9.3			pH Units	1	6/21/2013

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-5-062013B

Lab ID: 1306628-05

Collection Date: 6/20/2013 01:06 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/25/2013	Analyst: SAD
4,4'-DDD	ND		0.041	µg/L	1	6/26/2013
4,4'-DDE	ND		0.041	µg/L	1	6/26/2013
4,4'-DDT	ND		0.041	µg/L	1	6/26/2013
Aldrin	ND		0.020	µg/L	1	6/26/2013
alpha-BHC	ND		0.020	µg/L	1	6/26/2013
beta-BHC	ND		0.020	µg/L	1	6/26/2013
Chlordane	ND		1.0	µg/L	1	6/26/2013
delta-BHC	ND		0.020	µg/L	1	6/26/2013
Dieldrin	ND		0.041	µg/L	1	6/26/2013
Endosulfan I	ND		0.020	µg/L	1	6/26/2013
Endosulfan II	ND		0.041	µg/L	1	6/26/2013
Endosulfan sulfate	ND		0.041	µg/L	1	6/26/2013
Endrin	ND		0.041	µg/L	1	6/26/2013
Endrin aldehyde	ND		0.041	µg/L	1	6/26/2013
Endrin ketone	ND		0.041	µg/L	1	6/26/2013
gamma-BHC (Lindane)	ND		0.020	µg/L	1	6/26/2013
Heptachlor	ND		0.020	µg/L	1	6/26/2013
Heptachlor epoxide	ND		0.020	µg/L	1	6/26/2013
Methoxychlor	ND		0.20	µg/L	1	6/26/2013
Toxaphene	ND		5.1	µg/L	1	6/26/2013
<i>Surr: Decachlorobiphenyl</i>	79.6		11-146	%REC	1	6/26/2013
<i>Surr: Tetrachloro-m-xylene</i>	95.8		35-132	%REC	1	6/26/2013
PCBS			SW8082		Prep Date: 6/25/2013	Analyst: SAD
Aroclor 1016	ND		0.51	µg/L	1	6/27/2013
Aroclor 1221	ND		0.51	µg/L	1	6/27/2013
Aroclor 1232	ND		0.51	µg/L	1	6/27/2013
Aroclor 1242	ND		0.51	µg/L	1	6/27/2013
Aroclor 1248	ND		0.51	µg/L	1	6/27/2013
Aroclor 1254	ND		0.51	µg/L	1	6/27/2013
Aroclor 1260	ND		0.51	µg/L	1	6/27/2013
<i>Surr: Decachlorobiphenyl</i>	84.4		37-108	%REC	1	6/27/2013
<i>Surr: Tetrachloro-m-xylene</i>	108		9-136	%REC	1	6/27/2013
MERCURY BY CVAA			SW7470A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	6/27/2013 02:37 PM
MERCURY BY CVAA (DISSOLVED)			SW7470A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	6/27/2013 03:49 PM
METALS BY ICP			SW6010B		Prep Date: 6/24/2013	Analyst: VAW

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-5-062013B

Lab ID: 1306628-05

Collection Date: 6/20/2013 01:06 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Aluminum	1.3		0.20	mg/L	1	6/25/2013 12:09 PM
Antimony	ND		0.0060	mg/L	1	6/25/2013 12:09 PM
Arsenic	ND		0.010	mg/L	1	6/25/2013 12:09 PM
Barium	ND		0.10	mg/L	1	6/25/2013 12:09 PM
Beryllium	ND		0.0040	mg/L	1	6/25/2013 12:09 PM
Cadmium	ND		0.0050	mg/L	1	6/25/2013 12:09 PM
Calcium	140		0.20	mg/L	1	6/25/2013 12:09 PM
Chromium	ND		0.020	mg/L	1	6/25/2013 12:09 PM
Cobalt	ND		0.050	mg/L	1	6/25/2013 12:09 PM
Copper	ND		0.025	mg/L	1	6/25/2013 12:09 PM
Iron	0.26		0.20	mg/L	1	6/25/2013 12:09 PM
Lead	ND		0.015	mg/L	1	6/25/2013 12:09 PM
Magnesium	60		0.20	mg/L	1	6/25/2013 12:09 PM
Manganese	0.072		0.050	mg/L	1	6/25/2013 12:09 PM
Nickel	ND		0.040	mg/L	1	6/25/2013 12:09 PM
Potassium	20		0.20	mg/L	1	6/25/2013 12:09 PM
Selenium	ND		0.030	mg/L	1	6/25/2013 12:09 PM
Silver	ND		0.010	mg/L	1	6/25/2013 12:09 PM
Sodium	110		0.20	mg/L	1	6/25/2013 12:09 PM
Thallium	ND		0.0020	mg/L	1	6/25/2013 12:09 PM
Vanadium	ND		0.050	mg/L	1	6/25/2013 12:09 PM
Zinc	ND		0.050	mg/L	1	6/25/2013 12:09 PM

METALS BY ICP (DISSOLVED)

SW6010B

Prep Date: **6/24/2013**

Analyst: **VAW**

Aluminum	1.4		0.20	mg/L	1	6/25/2013 10:34 AM
Antimony	ND		0.0060	mg/L	1	6/25/2013 10:34 AM
Arsenic	ND		0.010	mg/L	1	6/25/2013 10:34 AM
Barium	ND		0.10	mg/L	1	6/25/2013 10:34 AM
Beryllium	ND		0.0040	mg/L	1	6/25/2013 10:34 AM
Cadmium	ND		0.0050	mg/L	1	6/25/2013 10:34 AM
Calcium	140		0.20	mg/L	1	6/25/2013 10:34 AM
Chromium	ND		0.020	mg/L	1	6/25/2013 10:34 AM
Cobalt	ND		0.050	mg/L	1	6/25/2013 10:34 AM
Copper	ND		0.025	mg/L	1	6/25/2013 10:34 AM
Iron	ND		0.20	mg/L	1	6/25/2013 10:34 AM
Lead	ND		0.015	mg/L	1	6/25/2013 10:34 AM
Magnesium	59		0.20	mg/L	1	6/25/2013 10:34 AM
Manganese	0.071		0.050	mg/L	1	6/25/2013 10:34 AM
Nickel	ND		0.040	mg/L	1	6/25/2013 10:34 AM
Potassium	20		0.20	mg/L	1	6/25/2013 10:34 AM
Selenium	ND		0.030	mg/L	1	6/25/2013 10:34 AM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-5-062013B

Lab ID: 1306628-05

Collection Date: 6/20/2013 01:06 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Silver	ND		0.010	mg/L	1	6/25/2013 10:34 AM
Sodium	100		0.20	mg/L	1	6/25/2013 10:34 AM
Thallium	ND		0.0020	mg/L	1	6/25/2013 10:34 AM
Vanadium	ND		0.050	mg/L	1	6/25/2013 10:34 AM
Zinc	ND		0.050	mg/L	1	6/25/2013 10:34 AM
HERBICIDES			SW8151		Prep Date: 6/26/2013	Analyst: Microb
2,4,5-T	ND		0.20	µg/L	1	7/1/2013 11:44 PM
2,4,5-TP (Silvex)	ND		0.20	µg/L	1	7/1/2013 11:44 PM
2,4-D	ND		2.0	µg/L	1	7/1/2013 11:44 PM
2,4-DB	ND		2.0	µg/L	1	7/1/2013 11:44 PM
Dalapon	ND		5.0	µg/L	1	7/1/2013 11:44 PM
Dicamba	ND		0.20	µg/L	1	7/1/2013 11:44 PM
Dichlorprop	ND		2.0	µg/L	1	7/1/2013 11:44 PM
Dinoseb	ND		1.0	µg/L	1	7/1/2013 11:44 PM
MCPA	ND		250	µg/L	1	7/1/2013 11:44 PM
MCPP	ND		250	µg/L	1	7/1/2013 11:44 PM
Pentachlorophenol	ND		0.20	µg/L	1	7/1/2013 11:44 PM
Surr: 2,4-Dichlorophenylacetic acid	113		20-144	%REC	1	7/1/2013 11:44 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 6/25/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		9.8	µg/L	1	6/28/2013 11:15 PM
1,2,4-Trichlorobenzene	ND		9.8	µg/L	1	6/28/2013 11:15 PM
1,2-Dichlorobenzene	ND		9.8	µg/L	1	6/28/2013 11:15 PM
1,3-Dichlorobenzene	ND		9.8	µg/L	1	6/28/2013 11:15 PM
1,3-Dinitrobenzene	ND		9.8	µg/L	1	6/28/2013 11:15 PM
1,4-Dichlorobenzene	ND		9.8	µg/L	1	6/28/2013 11:15 PM
1-Methylnaphthalene	ND		0.098	µg/L	1	6/28/2013 08:36 PM
1-Naphthylamine	ND		9.8	µg/L	1	6/28/2013 11:15 PM
2,3,4,6-Tetrachlorophenol	ND		9.8	µg/L	1	6/28/2013 11:15 PM
2,4,5-Trichlorophenol	ND		9.8	µg/L	1	6/28/2013 11:15 PM
2,4,6-Trichlorophenol	ND		9.8	µg/L	1	6/28/2013 11:15 PM
2,4-Dichlorophenol	ND		9.8	µg/L	1	6/28/2013 11:15 PM
2,4-Dimethylphenol	ND		9.8	µg/L	1	6/28/2013 11:15 PM
2,4-Dinitrophenol	ND		9.8	µg/L	1	6/28/2013 11:15 PM
2,4-Dinitrotoluene	ND		9.8	µg/L	1	6/28/2013 11:15 PM
2,6-Dichlorophenol	ND		9.8	µg/L	1	6/28/2013 11:15 PM
2,6-Dinitrotoluene	ND		9.8	µg/L	1	6/28/2013 11:15 PM
2-Acetylaminofluorene	ND		9.8	µg/L	1	6/28/2013 11:15 PM
2-Chloronaphthalene	ND		9.8	µg/L	1	6/28/2013 11:15 PM
2-Chlorophenol	ND		9.8	µg/L	1	6/28/2013 11:15 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-5-062013B

Lab ID: 1306628-05

Collection Date: 6/20/2013 01:06 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND		0.098	µg/L	1	6/28/2013 08:36 PM
2-Methylphenol	ND		9.8	µg/L	1	6/28/2013 11:15 PM
2-Naphthylamine	ND		20	µg/L	1	6/28/2013 11:15 PM
2-Nitroaniline	ND		9.8	µg/L	1	6/28/2013 11:15 PM
2-Nitrophenol	ND		9.8	µg/L	1	6/28/2013 11:15 PM
2-Picoline	ND		20	µg/L	1	6/28/2013 11:15 PM
3&4-Methylphenol	ND		9.8	µg/L	1	6/28/2013 11:15 PM
3,3'-Dichlorobenzidine	ND		9.8	µg/L	1	6/28/2013 11:15 PM
3-Methylcholanthrene	ND		20	µg/L	1	6/28/2013 11:15 PM
3-Nitroaniline	ND		20	µg/L	1	6/28/2013 11:15 PM
4,6-Dinitro-2-methylphenol	ND		20	µg/L	1	6/28/2013 11:15 PM
4-Aminobiphenyl	ND		9.8	µg/L	1	6/28/2013 11:15 PM
4-Bromophenyl phenyl ether	ND		20	µg/L	1	6/28/2013 11:15 PM
4-Chloro-3-methylphenol	ND		20	µg/L	1	6/28/2013 11:15 PM
4-Chloroaniline	ND		9.8	µg/L	1	6/28/2013 11:15 PM
4-Chlorophenyl phenyl ether	ND		20	µg/L	1	6/28/2013 11:15 PM
4-Nitroaniline	ND		20	µg/L	1	6/28/2013 11:15 PM
4-Nitrophenol	ND		9.8	µg/L	1	6/28/2013 11:15 PM
4-Nitroquinoline 1-oxide	ND		9.8	µg/L	1	6/28/2013 11:15 PM
5-Nitro-o-toluidine	ND		9.8	µg/L	1	6/28/2013 11:15 PM
7,12-Dimethylbenz(a)anthracene	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Acenaphthene	ND		0.098	µg/L	1	6/28/2013 08:36 PM
Acenaphthylene	ND		0.098	µg/L	1	6/28/2013 08:36 PM
Acetophenone	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Aniline	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Anthracene	ND		0.098	µg/L	1	6/28/2013 08:36 PM
Azobenzene	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Benzidine	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Benzo(a)anthracene	ND		0.098	µg/L	1	6/28/2013 08:36 PM
Benzo(a)pyrene	ND		0.098	µg/L	1	6/28/2013 08:36 PM
Benzo(b)fluoranthene	ND		0.11	µg/L	1	6/28/2013 08:36 PM
Benzo(g,h,i)perylene	ND		0.098	µg/L	1	6/28/2013 08:36 PM
Benzo(k)fluoranthene	ND		0.16	µg/L	1	6/28/2013 08:36 PM
Benzyl alcohol	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Bis(2-chloroethoxy)methane	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Bis(2-chloroethyl)ether	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Bis(2-chloroisopropyl)ether	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Bis(2-ethylhexyl)phthalate	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Butyl benzyl phthalate	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Carbazole	ND		9.8	µg/L	1	6/28/2013 08:36 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-5-062013B

Lab ID: 1306628-05

Collection Date: 6/20/2013 01:06 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Chrysene	ND		0.098	µg/L	1	6/28/2013 08:36 PM
Dibenzo(a,h)anthracene	ND		0.098	µg/L	1	6/28/2013 08:36 PM
Dibenzofuran	ND		9.8	µg/L	1	6/28/2013 08:36 PM
Diethyl phthalate	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Dimethyl phthalate	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Di-n-butyl phthalate	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Di-n-octyl phthalate	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Dinoseb	ND		20	µg/L	1	6/28/2013 11:15 PM
Diphenylamine	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Ethyl methanesulfonate	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Fluoranthene	ND		0.098	µg/L	1	6/28/2013 08:36 PM
Fluorene	ND		0.098	µg/L	1	6/28/2013 08:36 PM
Hexachlorobenzene	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Hexachlorobutadiene	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Hexachlorocyclopentadiene	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Hexachloroethane	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Indeno(1,2,3-cd)pyrene	ND		0.098	µg/L	1	6/28/2013 08:36 PM
Isophorone	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Isosafrole	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Methapyrilene	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Methyl methanesulfonate	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Naphthalene	ND		0.098	µg/L	1	6/28/2013 08:36 PM
Nitrobenzene	ND		9.8	µg/L	1	6/28/2013 11:15 PM
N-Nitrosodiethylamine	ND		9.8	µg/L	1	6/28/2013 11:15 PM
N-Nitrosodimethylamine	ND		9.8	µg/L	1	6/28/2013 11:15 PM
N-Nitroso-di-n-butylamine	ND		9.8	µg/L	1	6/28/2013 11:15 PM
N-Nitrosodi-n-propylamine	ND		9.8	µg/L	1	6/28/2013 11:15 PM
N-Nitrosomethylethylamine	ND		9.8	µg/L	1	6/28/2013 11:15 PM
N-Nitrosomorpholine	ND		9.8	µg/L	1	6/28/2013 11:15 PM
N-Nitrosopiperidine	ND		9.8	µg/L	1	6/28/2013 11:15 PM
N-Nitrosopyrrolidine	ND		9.8	µg/L	1	6/28/2013 11:15 PM
o-Toluidine	ND		9.8	µg/L	1	6/28/2013 11:15 PM
p-Dimethylaminoazobenzene	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Pentachlorobenzene	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Pentachloroethane	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Pentachloronitrobenzene	ND		20	µg/L	1	6/28/2013 11:15 PM
Pentachlorophenol	ND		20	µg/L	1	6/28/2013 11:15 PM
Phenacetin	ND		20	µg/L	1	6/28/2013 11:15 PM
Phenanthrene	ND		0.098	µg/L	1	6/28/2013 08:36 PM
Phenol	ND		9.8	µg/L	1	6/28/2013 11:15 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-5-062013B

Lab ID: 1306628-05

Collection Date: 6/20/2013 01:06 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Pyrene	ND		0.098	µg/L	1	6/28/2013 08:36 PM
Pyridine	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Safrole	ND		9.8	µg/L	1	6/28/2013 11:15 PM
Surr: 2,4,6-Tribromophenol	75.6		35-120	%REC	1	6/28/2013 11:15 PM
Surr: 2-Fluorobiphenyl	56.1		38-105	%REC	1	6/28/2013 11:15 PM
Surr: 2-Fluorophenol	24.4		12-89	%REC	1	6/28/2013 11:15 PM
Surr: 4-Terphenyl-d14	85.8		42-125	%REC	1	6/28/2013 11:15 PM
Surr: Nitrobenzene-d5	54.6		28-120	%REC	1	6/28/2013 11:15 PM
Surr: Phenol-d5	23.3		10-62	%REC	1	6/28/2013 11:15 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	6/28/2013 04:13 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	6/28/2013 04:13 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	6/28/2013 04:13 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	6/28/2013 04:13 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	6/28/2013 04:13 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	6/28/2013 04:13 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	6/28/2013 04:13 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	6/28/2013 04:13 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	6/28/2013 04:13 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	6/28/2013 04:13 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	6/28/2013 04:13 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	6/28/2013 04:13 PM
2-Butanone	ND		5.0	µg/L	1	6/28/2013 04:13 PM
2-Chlorotoluene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
2-Hexanone	ND		5.0	µg/L	1	6/28/2013 04:13 PM
4-Chlorotoluene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Acetone	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Benzene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Bromobenzene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Bromochloromethane	ND		5.0	µg/L	1	6/28/2013 04:13 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-5-062013B

Lab ID: 1306628-05

Collection Date: 6/20/2013 01:06 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Bromodichloromethane	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Bromoform	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Bromomethane	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Carbon disulfide	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Carbon tetrachloride	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Chlorobenzene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Chloroethane	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Chloroform	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Chloromethane	ND		5.0	µg/L	1	6/28/2013 04:13 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Dibromochloromethane	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Dibromomethane	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Ethylbenzene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Isopropylbenzene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
m,p-Xylene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Methylene chloride	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Naphthalene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
n-Butylbenzene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
n-Propylbenzene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
o-Xylene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
sec-Butylbenzene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Styrene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
tert-Butylbenzene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Tetrachloroethene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Toluene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Trichloroethene	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	6/28/2013 04:13 PM
Vinyl chloride	ND		2.0	µg/L	1	6/28/2013 04:13 PM
Xylenes, Total	ND		5.0	µg/L	1	6/28/2013 04:13 PM
<i>Surr: 4-Bromofluorobenzene</i>	91.2		61-131	%REC	1	6/28/2013 04:13 PM
<i>Surr: Dibromofluoromethane</i>	99.7		87-126	%REC	1	6/28/2013 04:13 PM
<i>Surr: Toluene-d8</i>	95.6		84-111	%REC	1	6/28/2013 04:13 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-1-062013

Lab ID: 1306628-06

Collection Date: 6/21/2013 09:26 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/25/2013	Analyst: SAD
4,4'-DDD	ND		0.041	µg/L	1	6/26/2013
4,4'-DDE	ND		0.041	µg/L	1	6/26/2013
4,4'-DDT	ND		0.041	µg/L	1	6/26/2013
Aldrin	ND		0.020	µg/L	1	6/26/2013
alpha-BHC	ND		0.020	µg/L	1	6/26/2013
beta-BHC	ND		0.020	µg/L	1	6/26/2013
Chlordane	ND		1.0	µg/L	1	6/26/2013
delta-BHC	ND		0.020	µg/L	1	6/26/2013
Dieldrin	ND		0.041	µg/L	1	6/26/2013
Endosulfan I	ND		0.020	µg/L	1	6/26/2013
Endosulfan II	ND		0.041	µg/L	1	6/26/2013
Endosulfan sulfate	ND		0.041	µg/L	1	6/26/2013
Endrin	ND		0.041	µg/L	1	6/26/2013
Endrin aldehyde	ND		0.041	µg/L	1	6/26/2013
Endrin ketone	ND		0.041	µg/L	1	6/26/2013
gamma-BHC (Lindane)	ND		0.020	µg/L	1	6/26/2013
Heptachlor	ND		0.020	µg/L	1	6/26/2013
Heptachlor epoxide	ND		0.020	µg/L	1	6/26/2013
Methoxychlor	ND		0.20	µg/L	1	6/26/2013
Toxaphene	ND		5.1	µg/L	1	6/26/2013
<i>Surr: Decachlorobiphenyl</i>	73.6		11-146	%REC	1	6/26/2013
<i>Surr: Tetrachloro-m-xylene</i>	93.9		35-132	%REC	1	6/26/2013
PCBS			SW8082		Prep Date: 6/25/2013	Analyst: SAD
Aroclor 1016	ND		0.51	µg/L	1	6/27/2013
Aroclor 1221	ND		0.51	µg/L	1	6/27/2013
Aroclor 1232	ND		0.51	µg/L	1	6/27/2013
Aroclor 1242	ND		0.51	µg/L	1	6/27/2013
Aroclor 1248	ND		0.51	µg/L	1	6/27/2013
Aroclor 1254	ND		0.51	µg/L	1	6/27/2013
Aroclor 1260	ND		0.51	µg/L	1	6/27/2013
<i>Surr: Decachlorobiphenyl</i>	75.8		37-108	%REC	1	6/27/2013
<i>Surr: Tetrachloro-m-xylene</i>	99.8		9-136	%REC	1	6/27/2013
MERCURY BY CVAA			SW7470A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	6/27/2013 02:39 PM
MERCURY BY CVAA (DISSOLVED)			SW7470A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	6/27/2013 03:51 PM
METALS BY ICP			SW6010B		Prep Date: 6/24/2013	Analyst: VAW

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-1-062013

Lab ID: 1306628-06

Collection Date: 6/21/2013 09:26 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Aluminum	2.4		0.20	mg/L	1	6/25/2013 12:16 PM
Antimony	ND		0.0060	mg/L	1	6/25/2013 12:16 PM
Arsenic	ND		0.010	mg/L	1	6/25/2013 12:16 PM
Barium	ND		0.10	mg/L	1	6/25/2013 12:16 PM
Beryllium	ND		0.0040	mg/L	1	6/25/2013 12:16 PM
Cadmium	ND		0.0050	mg/L	1	6/25/2013 12:16 PM
Calcium	430		0.20	mg/L	1	6/25/2013 12:16 PM
Chromium	ND		0.020	mg/L	1	6/25/2013 12:16 PM
Cobalt	ND		0.050	mg/L	1	6/25/2013 12:16 PM
Copper	ND		0.025	mg/L	1	6/25/2013 12:16 PM
Iron	1.9		0.20	mg/L	1	6/25/2013 12:16 PM
Lead	ND		0.015	mg/L	1	6/25/2013 12:16 PM
Magnesium	110		0.20	mg/L	1	6/25/2013 12:16 PM
Manganese	ND		0.050	mg/L	1	6/25/2013 12:16 PM
Nickel	ND		0.040	mg/L	1	6/25/2013 12:16 PM
Potassium	3.7		0.20	mg/L	1	6/25/2013 12:16 PM
Selenium	ND		0.030	mg/L	1	6/25/2013 12:16 PM
Silver	ND		0.010	mg/L	1	6/25/2013 12:16 PM
Sodium	33		0.20	mg/L	1	6/25/2013 12:16 PM
Thallium	ND		0.0020	mg/L	1	6/25/2013 12:16 PM
Vanadium	ND		0.050	mg/L	1	6/25/2013 12:16 PM
Zinc	ND		0.050	mg/L	1	6/25/2013 12:16 PM

METALS BY ICP (DISSOLVED)

SW6010B

Prep Date: **6/24/2013**

Analyst: **VAW**

Aluminum	2.5		0.20	mg/L	1	6/25/2013 10:41 AM
Antimony	ND		0.0060	mg/L	1	6/25/2013 10:41 AM
Arsenic	ND		0.010	mg/L	1	6/25/2013 10:41 AM
Barium	ND		0.10	mg/L	1	6/25/2013 10:41 AM
Beryllium	ND		0.0040	mg/L	1	6/25/2013 10:41 AM
Cadmium	ND		0.0050	mg/L	1	6/25/2013 10:41 AM
Calcium	410		0.20	mg/L	1	6/25/2013 10:41 AM
Chromium	ND		0.020	mg/L	1	6/25/2013 10:41 AM
Cobalt	ND		0.050	mg/L	1	6/25/2013 10:41 AM
Copper	ND		0.025	mg/L	1	6/25/2013 10:41 AM
Iron	1.6		0.20	mg/L	1	6/25/2013 10:41 AM
Lead	ND		0.015	mg/L	1	6/25/2013 10:41 AM
Magnesium	110		0.20	mg/L	1	6/25/2013 10:41 AM
Manganese	ND		0.050	mg/L	1	6/25/2013 10:41 AM
Nickel	ND		0.040	mg/L	1	6/25/2013 10:41 AM
Potassium	3.6		0.20	mg/L	1	6/25/2013 10:41 AM
Selenium	ND		0.030	mg/L	1	6/25/2013 10:41 AM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-1-062013

Lab ID: 1306628-06

Collection Date: 6/21/2013 09:26 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Silver	ND		0.010	mg/L	1	6/25/2013 10:41 AM
Sodium	31		0.20	mg/L	1	6/25/2013 10:41 AM
Thallium	ND		0.0020	mg/L	1	6/25/2013 10:41 AM
Vanadium	ND		0.050	mg/L	1	6/25/2013 10:41 AM
Zinc	ND		0.050	mg/L	1	6/25/2013 10:41 AM
HERBICIDES			SW8151		Prep Date: 6/26/2013	Analyst: Microb
2,4,5-T	ND		0.20	µg/L	1	7/2/2013 12:36 AM
2,4,5-TP (Silvex)	ND		0.20	µg/L	1	7/2/2013 12:36 AM
2,4-D	ND		2.0	µg/L	1	7/2/2013 12:36 AM
2,4-DB	ND		2.0	µg/L	1	7/2/2013 12:36 AM
Dalapon	ND		5.0	µg/L	1	7/2/2013 12:36 AM
Dicamba	ND		0.20	µg/L	1	7/2/2013 12:36 AM
Dichlorprop	ND		2.0	µg/L	1	7/2/2013 12:36 AM
Dinoseb	ND		1.0	µg/L	1	7/2/2013 12:36 AM
MCPA	ND		250	µg/L	1	7/2/2013 12:36 AM
MCPP	ND		250	µg/L	1	7/2/2013 12:36 AM
Pentachlorophenol	ND		0.20	µg/L	1	7/2/2013 12:36 AM
Surr: 2,4-Dichlorophenylacetic acid	111		20-144	%REC	1	7/2/2013 12:36 AM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 6/25/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		9.9	µg/L	1	6/28/2013 11:50 PM
1,2,4-Trichlorobenzene	ND		9.9	µg/L	1	6/28/2013 11:50 PM
1,2-Dichlorobenzene	ND		9.9	µg/L	1	6/28/2013 11:50 PM
1,3-Dichlorobenzene	ND		9.9	µg/L	1	6/28/2013 11:50 PM
1,3-Dinitrobenzene	ND		9.9	µg/L	1	6/28/2013 11:50 PM
1,4-Dichlorobenzene	ND		9.9	µg/L	1	6/28/2013 11:50 PM
1-Methylnaphthalene	ND		0.099	µg/L	1	6/28/2013 09:07 PM
1-Naphthylamine	ND		9.9	µg/L	1	6/28/2013 11:50 PM
2,3,4,6-Tetrachlorophenol	ND		9.9	µg/L	1	6/28/2013 11:50 PM
2,4,5-Trichlorophenol	ND		9.9	µg/L	1	6/28/2013 11:50 PM
2,4,6-Trichlorophenol	ND		9.9	µg/L	1	6/28/2013 11:50 PM
2,4-Dichlorophenol	ND		9.9	µg/L	1	6/28/2013 11:50 PM
2,4-Dimethylphenol	ND		9.9	µg/L	1	6/28/2013 11:50 PM
2,4-Dinitrophenol	ND		9.9	µg/L	1	6/28/2013 11:50 PM
2,4-Dinitrotoluene	ND		9.9	µg/L	1	6/28/2013 11:50 PM
2,6-Dichlorophenol	ND		9.9	µg/L	1	6/28/2013 11:50 PM
2,6-Dinitrotoluene	ND		9.9	µg/L	1	6/28/2013 11:50 PM
2-Acetylaminofluorene	ND		9.9	µg/L	1	6/28/2013 11:50 PM
2-Chloronaphthalene	ND		9.9	µg/L	1	6/28/2013 11:50 PM
2-Chlorophenol	ND		9.9	µg/L	1	6/28/2013 11:50 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-1-062013

Lab ID: 1306628-06

Collection Date: 6/21/2013 09:26 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND		0.099	µg/L	1	6/28/2013 09:07 PM
2-Methylphenol	ND		9.9	µg/L	1	6/28/2013 11:50 PM
2-Naphthylamine	ND		20	µg/L	1	6/28/2013 11:50 PM
2-Nitroaniline	ND		9.9	µg/L	1	6/28/2013 11:50 PM
2-Nitrophenol	ND		9.9	µg/L	1	6/28/2013 11:50 PM
2-Picoline	ND		20	µg/L	1	6/28/2013 11:50 PM
3&4-Methylphenol	ND		9.9	µg/L	1	6/28/2013 11:50 PM
3,3'-Dichlorobenzidine	ND		9.9	µg/L	1	6/28/2013 11:50 PM
3-Methylcholanthrene	ND		20	µg/L	1	6/28/2013 11:50 PM
3-Nitroaniline	ND		20	µg/L	1	6/28/2013 11:50 PM
4,6-Dinitro-2-methylphenol	ND		20	µg/L	1	6/28/2013 11:50 PM
4-Aminobiphenyl	ND		9.9	µg/L	1	6/28/2013 11:50 PM
4-Bromophenyl phenyl ether	ND		20	µg/L	1	6/28/2013 11:50 PM
4-Chloro-3-methylphenol	ND		20	µg/L	1	6/28/2013 11:50 PM
4-Chloroaniline	ND		9.9	µg/L	1	6/28/2013 11:50 PM
4-Chlorophenyl phenyl ether	ND		20	µg/L	1	6/28/2013 11:50 PM
4-Nitroaniline	ND		20	µg/L	1	6/28/2013 11:50 PM
4-Nitrophenol	ND		9.9	µg/L	1	6/28/2013 11:50 PM
4-Nitroquinoline 1-oxide	ND		9.9	µg/L	1	6/28/2013 11:50 PM
5-Nitro-o-toluidine	ND		9.9	µg/L	1	6/28/2013 11:50 PM
7,12-Dimethylbenz(a)anthracene	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Acenaphthene	ND		0.099	µg/L	1	6/28/2013 09:07 PM
Acenaphthylene	ND		0.099	µg/L	1	6/28/2013 09:07 PM
Acetophenone	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Aniline	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Anthracene	ND		0.099	µg/L	1	6/28/2013 09:07 PM
Azobenzene	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Benzidine	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Benzo(a)anthracene	ND		0.099	µg/L	1	6/28/2013 09:07 PM
Benzo(a)pyrene	ND		0.099	µg/L	1	6/28/2013 09:07 PM
Benzo(b)fluoranthene	ND		0.11	µg/L	1	6/28/2013 09:07 PM
Benzo(g,h,i)perylene	ND		0.099	µg/L	1	6/28/2013 09:07 PM
Benzo(k)fluoranthene	ND		0.16	µg/L	1	6/28/2013 09:07 PM
Benzyl alcohol	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Bis(2-chloroethoxy)methane	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Bis(2-chloroethyl)ether	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Bis(2-chloroisopropyl)ether	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Bis(2-ethylhexyl)phthalate	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Butyl benzyl phthalate	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Carbazole	ND		9.9	µg/L	1	6/28/2013 09:07 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-1-062013

Lab ID: 1306628-06

Collection Date: 6/21/2013 09:26 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Chrysene	ND		0.099	µg/L	1	6/28/2013 09:07 PM
Dibenzo(a,h)anthracene	ND		0.099	µg/L	1	6/28/2013 09:07 PM
Dibenzofuran	ND		9.9	µg/L	1	6/28/2013 09:07 PM
Diethyl phthalate	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Dimethyl phthalate	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Di-n-butyl phthalate	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Di-n-octyl phthalate	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Dinoseb	ND		20	µg/L	1	6/28/2013 11:50 PM
Diphenylamine	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Ethyl methanesulfonate	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Fluoranthene	ND		0.099	µg/L	1	6/28/2013 09:07 PM
Fluorene	ND		0.099	µg/L	1	6/28/2013 09:07 PM
Hexachlorobenzene	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Hexachlorobutadiene	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Hexachlorocyclopentadiene	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Hexachloroethane	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Indeno(1,2,3-cd)pyrene	ND		0.099	µg/L	1	6/28/2013 09:07 PM
Isophorone	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Isosafrole	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Methapyrilene	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Methyl methanesulfonate	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Naphthalene	ND		0.099	µg/L	1	6/28/2013 09:07 PM
Nitrobenzene	ND		9.9	µg/L	1	6/28/2013 11:50 PM
N-Nitrosodiethylamine	ND		9.9	µg/L	1	6/28/2013 11:50 PM
N-Nitrosodimethylamine	ND		9.9	µg/L	1	6/28/2013 11:50 PM
N-Nitroso-di-n-butylamine	ND		9.9	µg/L	1	6/28/2013 11:50 PM
N-Nitrosodi-n-propylamine	ND		9.9	µg/L	1	6/28/2013 11:50 PM
N-Nitrosomethylethylamine	ND		9.9	µg/L	1	6/28/2013 11:50 PM
N-Nitrosomorpholine	ND		9.9	µg/L	1	6/28/2013 11:50 PM
N-Nitrosopiperidine	ND		9.9	µg/L	1	6/28/2013 11:50 PM
N-Nitrosopyrrolidine	ND		9.9	µg/L	1	6/28/2013 11:50 PM
o-Toluidine	ND		9.9	µg/L	1	6/28/2013 11:50 PM
p-Dimethylaminoazobenzene	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Pentachlorobenzene	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Pentachloroethane	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Pentachloronitrobenzene	ND		20	µg/L	1	6/28/2013 11:50 PM
Pentachlorophenol	ND		20	µg/L	1	6/28/2013 11:50 PM
Phenacetin	ND		20	µg/L	1	6/28/2013 11:50 PM
Phenanthrene	ND		0.099	µg/L	1	6/28/2013 09:07 PM
Phenol	ND		9.9	µg/L	1	6/28/2013 11:50 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-1-062013

Lab ID: 1306628-06

Collection Date: 6/21/2013 09:26 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Pyrene	ND		0.099	µg/L	1	6/28/2013 09:07 PM
Pyridine	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Safrole	ND		9.9	µg/L	1	6/28/2013 11:50 PM
Surr: 2,4,6-Tribromophenol	96.8		35-120	%REC	1	6/28/2013 11:50 PM
Surr: 2-Fluorobiphenyl	68.0		38-105	%REC	1	6/28/2013 11:50 PM
Surr: 2-Fluorophenol	24.9		12-89	%REC	1	6/28/2013 11:50 PM
Surr: 4-Terphenyl-d14	75.2		42-125	%REC	1	6/28/2013 11:50 PM
Surr: Nitrobenzene-d5	59.7		28-120	%REC	1	6/28/2013 11:50 PM
Surr: Phenol-d5	17.7		10-62	%REC	1	6/28/2013 11:50 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	6/27/2013 11:27 AM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	6/27/2013 11:27 AM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	6/27/2013 11:27 AM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	6/27/2013 11:27 AM
1,1-Dichloroethane	ND		5.0	µg/L	1	6/27/2013 11:27 AM
1,1-Dichloroethene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
1,1-Dichloropropene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	6/27/2013 11:27 AM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	6/27/2013 11:27 AM
1,2-Dibromoethane	ND		5.0	µg/L	1	6/27/2013 11:27 AM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
1,2-Dichloroethane	ND		5.0	µg/L	1	6/27/2013 11:27 AM
1,2-Dichloropropane	ND		5.0	µg/L	1	6/27/2013 11:27 AM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
1,3-Dichloropropane	ND		5.0	µg/L	1	6/27/2013 11:27 AM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
2,2-Dichloropropane	ND		5.0	µg/L	1	6/27/2013 11:27 AM
2-Butanone	ND		5.0	µg/L	1	6/27/2013 11:27 AM
2-Chlorotoluene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
2-Hexanone	ND		5.0	µg/L	1	6/27/2013 11:27 AM
4-Chlorotoluene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Acetone	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Benzene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Bromobenzene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Bromochloromethane	ND		5.0	µg/L	1	6/27/2013 11:27 AM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-1-062013

Lab ID: 1306628-06

Collection Date: 6/21/2013 09:26 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Bromodichloromethane	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Bromoform	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Bromomethane	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Carbon disulfide	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Carbon tetrachloride	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Chlorobenzene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Chloroethane	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Chloroform	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Chloromethane	ND		5.0	µg/L	1	6/27/2013 11:27 AM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Dibromochloromethane	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Dibromomethane	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Dichlorodifluoromethane	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Ethylbenzene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Hexachlorobutadiene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Isopropylbenzene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
m,p-Xylene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Methyl tert-butyl ether	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Methylene chloride	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Naphthalene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
n-Butylbenzene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
n-Propylbenzene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
o-Xylene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
p-Isopropyltoluene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
sec-Butylbenzene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Styrene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
tert-Butylbenzene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Tetrachloroethene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Toluene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Trichloroethene	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Trichlorofluoromethane	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Vinyl chloride	ND		2.0	µg/L	1	6/27/2013 11:27 AM
Xylenes, Total	ND		5.0	µg/L	1	6/27/2013 11:27 AM
Surr: 4-Bromofluorobenzene	100		61-131	%REC	1	6/27/2013 11:27 AM
Surr: Dibromofluoromethane	99.8		87-126	%REC	1	6/27/2013 11:27 AM
Surr: Toluene-d8	98.2		84-111	%REC	1	6/27/2013 11:27 AM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-2-062013

Lab ID: 1306628-07

Collection Date: 6/21/2013 12:43 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/25/2013	Analyst: SAD
4,4'-DDD	ND		0.041	µg/L	1	6/26/2013
4,4'-DDE	ND		0.041	µg/L	1	6/26/2013
4,4'-DDT	ND		0.041	µg/L	1	6/26/2013
Aldrin	ND		0.020	µg/L	1	6/26/2013
alpha-BHC	ND		0.020	µg/L	1	6/26/2013
beta-BHC	ND		0.020	µg/L	1	6/26/2013
Chlordane	ND		1.0	µg/L	1	6/26/2013
delta-BHC	ND		0.020	µg/L	1	6/26/2013
Dieldrin	ND		0.041	µg/L	1	6/26/2013
Endosulfan I	ND		0.020	µg/L	1	6/26/2013
Endosulfan II	ND		0.041	µg/L	1	6/26/2013
Endosulfan sulfate	ND		0.041	µg/L	1	6/26/2013
Endrin	ND		0.041	µg/L	1	6/26/2013
Endrin aldehyde	ND		0.041	µg/L	1	6/26/2013
Endrin ketone	ND		0.041	µg/L	1	6/26/2013
gamma-BHC (Lindane)	ND		0.020	µg/L	1	6/26/2013
Heptachlor	ND		0.020	µg/L	1	6/26/2013
Heptachlor epoxide	ND		0.020	µg/L	1	6/26/2013
Methoxychlor	ND		0.20	µg/L	1	6/26/2013
Toxaphene	ND		5.1	µg/L	1	6/26/2013
<i>Surr: Decachlorobiphenyl</i>	74.4		11-146	%REC	1	6/26/2013
<i>Surr: Tetrachloro-m-xylene</i>	95.4		35-132	%REC	1	6/26/2013
PCBS			SW8082		Prep Date: 6/25/2013	Analyst: SAD
Aroclor 1016	ND		0.51	µg/L	1	6/27/2013
Aroclor 1221	ND		0.51	µg/L	1	6/27/2013
Aroclor 1232	ND		0.51	µg/L	1	6/27/2013
Aroclor 1242	ND		0.51	µg/L	1	6/27/2013
Aroclor 1248	ND		0.51	µg/L	1	6/27/2013
Aroclor 1254	ND		0.51	µg/L	1	6/27/2013
Aroclor 1260	ND		0.51	µg/L	1	6/27/2013
<i>Surr: Decachlorobiphenyl</i>	79.4		37-108	%REC	1	6/27/2013
<i>Surr: Tetrachloro-m-xylene</i>	107		9-136	%REC	1	6/27/2013
MERCURY BY CVAA			SW7470A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	6/27/2013 02:49 PM
MERCURY BY CVAA (DISSOLVED)			SW7470A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	6/27/2013 04:01 PM
METALS BY ICP			SW6010B		Prep Date: 6/24/2013	Analyst: VAW

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-2-062013

Lab ID: 1306628-07

Collection Date: 6/21/2013 12:43 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Aluminum	0.99		0.20	mg/L	1	6/25/2013 12:38 PM
Antimony	ND		0.0060	mg/L	1	6/25/2013 12:38 PM
Arsenic	ND		0.010	mg/L	1	6/25/2013 12:38 PM
Barium	1.9		0.10	mg/L	1	6/25/2013 12:38 PM
Beryllium	ND		0.0040	mg/L	1	6/25/2013 12:38 PM
Cadmium	ND		0.0050	mg/L	1	6/25/2013 12:38 PM
Calcium	60		0.20	mg/L	1	6/25/2013 12:38 PM
Chromium	ND		0.020	mg/L	1	6/25/2013 12:38 PM
Cobalt	ND		0.050	mg/L	1	6/25/2013 12:38 PM
Copper	ND		0.025	mg/L	1	6/25/2013 12:38 PM
Iron	0.93		0.20	mg/L	1	6/25/2013 12:38 PM
Lead	ND		0.015	mg/L	1	6/25/2013 12:38 PM
Magnesium	0.68		0.20	mg/L	1	6/25/2013 12:38 PM
Manganese	ND		0.050	mg/L	1	6/25/2013 12:38 PM
Nickel	ND		0.040	mg/L	1	6/25/2013 12:38 PM
Potassium	95		0.20	mg/L	1	6/25/2013 12:38 PM
Selenium	ND		0.030	mg/L	1	6/25/2013 12:38 PM
Silver	ND		0.010	mg/L	1	6/25/2013 12:38 PM
Sodium	150		0.20	mg/L	1	6/25/2013 12:38 PM
Thallium	ND		0.0020	mg/L	1	6/25/2013 12:38 PM
Vanadium	ND		0.050	mg/L	1	6/25/2013 12:38 PM
Zinc	ND		0.050	mg/L	1	6/25/2013 12:38 PM

METALS BY ICP (DISSOLVED)

SW6010B

Prep Date: **6/24/2013**

Analyst: **VAW**

Aluminum	0.66		0.20	mg/L	1	6/25/2013 11:04 AM
Antimony	ND		0.0060	mg/L	1	6/25/2013 11:04 AM
Arsenic	ND		0.010	mg/L	1	6/25/2013 11:04 AM
Barium	1.8		0.10	mg/L	1	6/25/2013 11:04 AM
Beryllium	ND		0.0040	mg/L	1	6/25/2013 11:04 AM
Cadmium	ND		0.0050	mg/L	1	6/25/2013 11:04 AM
Calcium	57		0.20	mg/L	1	6/25/2013 11:04 AM
Chromium	ND		0.020	mg/L	1	6/25/2013 11:04 AM
Cobalt	ND		0.050	mg/L	1	6/25/2013 11:04 AM
Copper	ND		0.025	mg/L	1	6/25/2013 11:04 AM
Iron	ND		0.20	mg/L	1	6/25/2013 11:04 AM
Lead	ND		0.015	mg/L	1	6/25/2013 11:04 AM
Magnesium	ND		0.20	mg/L	1	6/25/2013 11:04 AM
Manganese	ND		0.050	mg/L	1	6/25/2013 11:04 AM
Nickel	ND		0.040	mg/L	1	6/25/2013 11:04 AM
Potassium	83		0.20	mg/L	1	6/25/2013 11:04 AM
Selenium	ND		0.030	mg/L	1	6/25/2013 11:04 AM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-2-062013

Lab ID: 1306628-07

Collection Date: 6/21/2013 12:43 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Silver	ND		0.010	mg/L	1	6/25/2013 11:04 AM
Sodium	150		0.20	mg/L	1	6/25/2013 11:04 AM
Thallium	ND		0.0020	mg/L	1	6/25/2013 11:04 AM
Vanadium	ND		0.050	mg/L	1	6/25/2013 11:04 AM
Zinc	ND		0.050	mg/L	1	6/25/2013 11:04 AM
HERBICIDES			SW8151		Prep Date: 6/26/2013	Analyst: Microb
2,4,5-T	ND		0.20	µg/L	1	7/2/2013 01:28 AM
2,4,5-TP (Silvex)	ND		0.20	µg/L	1	7/2/2013 01:28 AM
2,4-D	ND		2.0	µg/L	1	7/2/2013 01:28 AM
2,4-DB	ND		2.0	µg/L	1	7/2/2013 01:28 AM
Dalapon	ND		5.0	µg/L	1	7/2/2013 01:28 AM
Dicamba	ND		0.20	µg/L	1	7/2/2013 01:28 AM
Dichlorprop	ND		2.0	µg/L	1	7/2/2013 01:28 AM
Dinoseb	ND		1.0	µg/L	1	7/2/2013 01:28 AM
MCPA	ND		250	µg/L	1	7/2/2013 01:28 AM
MCPP	ND		250	µg/L	1	7/2/2013 01:28 AM
Pentachlorophenol	ND		0.20	µg/L	1	7/2/2013 01:28 AM
Surr: 2,4-Dichlorophenylacetic acid	118		20-144	%REC	1	7/2/2013 01:28 AM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 6/25/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		9.8	µg/L	1	6/29/2013 12:25 PM
1,2,4-Trichlorobenzene	ND		9.8	µg/L	1	6/29/2013 12:25 PM
1,2-Dichlorobenzene	ND		9.8	µg/L	1	6/29/2013 12:25 PM
1,3-Dichlorobenzene	ND		9.8	µg/L	1	6/29/2013 12:25 PM
1,3-Dinitrobenzene	ND		9.8	µg/L	1	6/29/2013 12:25 PM
1,4-Dichlorobenzene	ND		9.8	µg/L	1	6/29/2013 12:25 PM
1-Methylnaphthalene	ND		0.098	µg/L	1	6/28/2013 09:38 PM
1-Naphthylamine	ND		9.8	µg/L	1	6/29/2013 12:25 PM
2,3,4,6-Tetrachlorophenol	ND		9.8	µg/L	1	6/29/2013 12:25 PM
2,4,5-Trichlorophenol	ND		9.8	µg/L	1	6/29/2013 12:25 PM
2,4,6-Trichlorophenol	ND		9.8	µg/L	1	6/29/2013 12:25 PM
2,4-Dichlorophenol	ND		9.8	µg/L	1	6/29/2013 12:25 PM
2,4-Dimethylphenol	ND		9.8	µg/L	1	6/29/2013 12:25 PM
2,4-Dinitrophenol	ND		9.8	µg/L	1	6/29/2013 12:25 PM
2,4-Dinitrotoluene	ND		9.8	µg/L	1	6/29/2013 12:25 PM
2,6-Dichlorophenol	ND		9.8	µg/L	1	6/29/2013 12:25 PM
2,6-Dinitrotoluene	ND		9.8	µg/L	1	6/29/2013 12:25 PM
2-Acetylaminofluorene	ND		9.8	µg/L	1	6/29/2013 12:25 PM
2-Chloronaphthalene	ND		9.8	µg/L	1	6/29/2013 12:25 PM
2-Chlorophenol	ND		9.8	µg/L	1	6/29/2013 12:25 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-2-062013

Lab ID: 1306628-07

Collection Date: 6/21/2013 12:43 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND		0.098	µg/L	1	6/28/2013 09:38 PM
2-Methylphenol	ND		9.8	µg/L	1	6/29/2013 12:25 PM
2-Naphthylamine	ND		20	µg/L	1	6/29/2013 12:25 PM
2-Nitroaniline	ND		9.8	µg/L	1	6/29/2013 12:25 PM
2-Nitrophenol	ND		9.8	µg/L	1	6/29/2013 12:25 PM
2-Picoline	ND		20	µg/L	1	6/29/2013 12:25 PM
3&4-Methylphenol	ND		9.8	µg/L	1	6/29/2013 12:25 PM
3,3'-Dichlorobenzidine	ND		9.8	µg/L	1	6/29/2013 12:25 PM
3-Methylcholanthrene	ND		20	µg/L	1	6/29/2013 12:25 PM
3-Nitroaniline	ND		20	µg/L	1	6/29/2013 12:25 PM
4,6-Dinitro-2-methylphenol	ND		20	µg/L	1	6/29/2013 12:25 PM
4-Aminobiphenyl	ND		9.8	µg/L	1	6/29/2013 12:25 PM
4-Bromophenyl phenyl ether	ND		20	µg/L	1	6/29/2013 12:25 PM
4-Chloro-3-methylphenol	ND		20	µg/L	1	6/29/2013 12:25 PM
4-Chloroaniline	ND		9.8	µg/L	1	6/29/2013 12:25 PM
4-Chlorophenyl phenyl ether	ND		20	µg/L	1	6/29/2013 12:25 PM
4-Nitroaniline	ND		20	µg/L	1	6/29/2013 12:25 PM
4-Nitrophenol	ND		9.8	µg/L	1	6/29/2013 12:25 PM
4-Nitroquinoline 1-oxide	ND		9.8	µg/L	1	6/29/2013 12:25 PM
5-Nitro-o-toluidine	ND		9.8	µg/L	1	6/29/2013 12:25 PM
7,12-Dimethylbenz(a)anthracene	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Acenaphthene	ND		0.098	µg/L	1	6/28/2013 09:38 PM
Acenaphthylene	ND		0.098	µg/L	1	6/28/2013 09:38 PM
Acetophenone	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Aniline	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Anthracene	ND		0.098	µg/L	1	6/28/2013 09:38 PM
Azobenzene	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Benzidine	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Benzo(a)anthracene	ND		0.098	µg/L	1	6/28/2013 09:38 PM
Benzo(a)pyrene	ND		0.098	µg/L	1	6/28/2013 09:38 PM
Benzo(b)fluoranthene	ND		0.11	µg/L	1	6/28/2013 09:38 PM
Benzo(g,h,i)perylene	ND		0.098	µg/L	1	6/28/2013 09:38 PM
Benzo(k)fluoranthene	ND		0.16	µg/L	1	6/28/2013 09:38 PM
Benzyl alcohol	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Bis(2-chloroethoxy)methane	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Bis(2-chloroethyl)ether	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Bis(2-chloroisopropyl)ether	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Bis(2-ethylhexyl)phthalate	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Butyl benzyl phthalate	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Carbazole	ND		9.8	µg/L	1	6/28/2013 09:38 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-2-062013

Lab ID: 1306628-07

Collection Date: 6/21/2013 12:43 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Chrysene	ND		0.098	µg/L	1	6/28/2013 09:38 PM
Dibenzo(a,h)anthracene	ND		0.098	µg/L	1	6/28/2013 09:38 PM
Dibenzofuran	ND		9.8	µg/L	1	6/28/2013 09:38 PM
Diethyl phthalate	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Dimethyl phthalate	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Di-n-butyl phthalate	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Di-n-octyl phthalate	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Dinoseb	ND		20	µg/L	1	6/29/2013 12:25 PM
Diphenylamine	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Ethyl methanesulfonate	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Fluoranthene	ND		0.098	µg/L	1	6/28/2013 09:38 PM
Fluorene	ND		0.098	µg/L	1	6/28/2013 09:38 PM
Hexachlorobenzene	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Hexachlorobutadiene	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Hexachlorocyclopentadiene	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Hexachloroethane	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Indeno(1,2,3-cd)pyrene	ND		0.098	µg/L	1	6/28/2013 09:38 PM
Isophorone	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Isosafrole	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Methapyrilene	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Methyl methanesulfonate	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Naphthalene	ND		0.098	µg/L	1	6/28/2013 09:38 PM
Nitrobenzene	ND		9.8	µg/L	1	6/29/2013 12:25 PM
N-Nitrosodiethylamine	ND		9.8	µg/L	1	6/29/2013 12:25 PM
N-Nitrosodimethylamine	ND		9.8	µg/L	1	6/29/2013 12:25 PM
N-Nitroso-di-n-butylamine	ND		9.8	µg/L	1	6/29/2013 12:25 PM
N-Nitrosodi-n-propylamine	ND		9.8	µg/L	1	6/29/2013 12:25 PM
N-Nitrosomethylethylamine	ND		9.8	µg/L	1	6/29/2013 12:25 PM
N-Nitrosomorpholine	ND		9.8	µg/L	1	6/29/2013 12:25 PM
N-Nitrosopiperidine	ND		9.8	µg/L	1	6/29/2013 12:25 PM
N-Nitrosopyrrolidine	ND		9.8	µg/L	1	6/29/2013 12:25 PM
o-Toluidine	ND		9.8	µg/L	1	6/29/2013 12:25 PM
p-Dimethylaminoazobenzene	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Pentachlorobenzene	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Pentachloroethane	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Pentachloronitrobenzene	ND		20	µg/L	1	6/29/2013 12:25 PM
Pentachlorophenol	ND		20	µg/L	1	6/29/2013 12:25 PM
Phenacetin	ND		20	µg/L	1	6/29/2013 12:25 PM
Phenanthrene	ND		0.098	µg/L	1	6/28/2013 09:38 PM
Phenol	ND		9.8	µg/L	1	6/29/2013 12:25 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-2-062013

Lab ID: 1306628-07

Collection Date: 6/21/2013 12:43 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Pyrene	ND		0.098	µg/L	1	6/28/2013 09:38 PM
Pyridine	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Safrole	ND		9.8	µg/L	1	6/29/2013 12:25 PM
Surr: 2,4,6-Tribromophenol	86.6		35-120	%REC	1	6/29/2013 12:25 PM
Surr: 2-Fluorobiphenyl	67.5		38-105	%REC	1	6/29/2013 12:25 PM
Surr: 2-Fluorophenol	28.6		12-89	%REC	1	6/29/2013 12:25 PM
Surr: 4-Terphenyl-d14	82.7		42-125	%REC	1	6/29/2013 12:25 PM
Surr: Nitrobenzene-d5	59.8		28-120	%REC	1	6/29/2013 12:25 PM
Surr: Phenol-d5	26.9		10-62	%REC	1	6/29/2013 12:25 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	6/27/2013 06:46 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	6/27/2013 06:46 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	6/27/2013 06:46 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	6/27/2013 06:46 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	6/27/2013 06:46 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	6/27/2013 06:46 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	6/27/2013 06:46 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	6/27/2013 06:46 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	6/27/2013 06:46 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	6/27/2013 06:46 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	6/27/2013 06:46 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	6/27/2013 06:46 PM
2-Butanone	ND		5.0	µg/L	1	6/27/2013 06:46 PM
2-Chlorotoluene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
2-Hexanone	ND		5.0	µg/L	1	6/27/2013 06:46 PM
4-Chlorotoluene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Acetone	21		5.0	µg/L	1	6/27/2013 06:46 PM
Benzene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Bromobenzene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Bromochloromethane	ND		5.0	µg/L	1	6/27/2013 06:46 PM

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-2-062013

Lab ID: 1306628-07

Collection Date: 6/21/2013 12:43 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Bromodichloromethane	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Bromoform	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Bromomethane	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Carbon disulfide	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Carbon tetrachloride	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Chlorobenzene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Chloroethane	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Chloroform	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Chloromethane	ND		5.0	µg/L	1	6/27/2013 06:46 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Dibromochloromethane	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Dibromomethane	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Ethylbenzene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Isopropylbenzene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
m,p-Xylene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Methylene chloride	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Naphthalene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
n-Butylbenzene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
n-Propylbenzene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
o-Xylene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
sec-Butylbenzene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Styrene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
tert-Butylbenzene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Tetrachloroethene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Toluene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Trichloroethene	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Vinyl chloride	ND		2.0	µg/L	1	6/27/2013 06:46 PM
Xylenes, Total	ND		5.0	µg/L	1	6/27/2013 06:46 PM
Surr: 4-Bromofluorobenzene	105		61-131	%REC	1	6/27/2013 06:46 PM
Surr: Dibromofluoromethane	94.5		87-126	%REC	1	6/27/2013 06:46 PM
Surr: Toluene-d8	99.3		84-111	%REC	1	6/27/2013 06:46 PM

ALKALINITY BY TITRATION

E310.1

Analyst: YCL

Note:

ALS Environmental

Date: 08-Jul-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306628

Sample ID: MW-2-062013

Lab ID: 1306628-07

Collection Date: 6/21/2013 12:43 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity, Total (as CaCO3)	610		4.0	mg/L	1	6/27/2013
PH			E9040B			Analyst: YCL
pH	13			pH Units	1	6/21/2013

Note:

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17369** Instrument ID **GC9** Method: **SW8082**

MBLK		Sample ID MBLK-17369-17369			Units: µg/L		Analysis Date: 6/27/2013			
Client ID:		Run ID: GC9_130627C			SeqNo: 637459		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.50								
Aroclor 1221	ND	0.50								
Aroclor 1232	ND	0.50								
Aroclor 1242	ND	0.50								
Aroclor 1248	ND	0.50								
Aroclor 1254	ND	0.50								
Aroclor 1260	ND	0.50								
<i>Surr: Decachlorobiphenyl</i>	0.339	0	0.5	0	67.8	37-108	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.5	0	0.5	0	100	9-136	0			

LCS		Sample ID LCS-17369-17369			Units: µg/L		Analysis Date: 6/27/2013			
Client ID:		Run ID: GC9_130627C			SeqNo: 637460		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	9.402	0.50	10	0	94	61-122	0			
<i>Surr: Decachlorobiphenyl</i>	0.343	0	0.5	0	68.6	37-108	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.501	0	0.5	0	100	9-136	0			

MS		Sample ID 1306628-06GMS			Units: µg/L		Analysis Date: 6/27/2013			
Client ID: MW-1-062013		Run ID: GC9_130627C			SeqNo: 637466		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	10.8	0.52	10.36	0	104		0			
<i>Surr: Decachlorobiphenyl</i>	0.4052	0	0.5181	0	78.2		0			
<i>Surr: Tetrachloro-m-xylene</i>	0.5534	0	0.5181	0	107		0			

MSD		Sample ID 1306628-06GMSD			Units: µg/L		Analysis Date: 6/27/2013			
Client ID: MW-1-062013		Run ID: GC9_130627C			SeqNo: 637467		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	10.52	0.51	10.1	0	104		10.8	2.66		
<i>Surr: Decachlorobiphenyl</i>	0.4172	0	0.5051	0	82.6		0.4052	2.92		
<i>Surr: Tetrachloro-m-xylene</i>	0.5505	0	0.5051	0	109		0.5534	0.519		

The following samples were analyzed in this batch:

1306628-02G	1306628-03G	1306628-04G
1306628-05G	1306628-06G	1306628-07G

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17376 Instrument ID GC9 Method: SW8081A

MBLK		Sample ID MBLK-17376-17376			Units: µg/L		Analysis Date: 6/26/2013			
Client ID:		Run ID: GC9_130626B			SeqNo: 636702		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	0.040								
4,4'-DDE	ND	0.040								
4,4'-DDT	ND	0.040								
Aldrin	ND	0.020								
alpha-BHC	ND	0.020								
beta-BHC	ND	0.020								
Chlordane	ND	1.0								
delta-BHC	ND	0.020								
Dieldrin	ND	0.040								
Endosulfan I	ND	0.020								
Endosulfan II	ND	0.040								
Endosulfan sulfate	ND	0.040								
Endrin	ND	0.040								
Endrin aldehyde	ND	0.040								
Endrin ketone	ND	0.040								
gamma-BHC (Lindane)	ND	0.020								
Heptachlor	ND	0.020								
Heptachlor epoxide	ND	0.020								
Methoxychlor	ND	0.20								
Toxaphene	ND	5.0								
Surr: Decachlorobiphenyl	0.343	0	0.5	0	68.6	11-146	0			
Surr: Tetrachloro-m-xylene	0.467	0	0.5	0	93.4	35-132	0			

LCS		Sample ID LCS-17376-17376			Units: µg/L		Analysis Date: 6/26/2013			
Client ID:		Run ID: GC9_130626B			SeqNo: 636703		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDT	0.181	0.040	0.2	0	90.5	25-163	0			
Aldrin	0.099	0.020	0.1	0	99	29-148	0			
Dieldrin	0.221	0.040	0.2	0	110	36-148	0			
Endrin	0.253	0.040	0.2	0	126	27-168	0			
gamma-BHC (Lindane)	0.076	0.020	0.1	0	76	20-139	0			
Heptachlor	0.11	0.020	0.1	0	110	30-149	0			
Surr: Decachlorobiphenyl	0.489	0	0.5	0	97.8	51-130	0			
Surr: Tetrachloro-m-xylene	0.546	0	0.5	0	109	44-129	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17376 Instrument ID GC9 Method: SW8081A

MS		Sample ID 1306628-06FMS			Units: µg/L		Analysis Date: 6/26/2013			
Client ID: MW-1-062013		Run ID: GC9_130626B			SeqNo: 636709		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDT	0.1421	0.041	0.203	0	70	25-163	0			
Aldrin	0.07919	0.020	0.1015	0	78	29-148	0			
Dieldrin	0.1817	0.041	0.203	0	89.5	36-148	0			
Endrin	0.2173	0.041	0.203	0	107	27-168	0			
gamma-BHC (Lindane)	0.06802	0.020	0.1015	0	67	20-139	0			
Heptachlor	0.09036	0.020	0.1015	0	89	30-149	0			
Surr: Decachlorobiphenyl	0.2985	0	0.5076	0	58.8	51-130	0			
Surr: Tetrachloro-m-xylene	0.4274	0	0.5076	0	84.2	44-129	0			

MSD		Sample ID 1306628-06FMSD			Units: µg/L		Analysis Date: 6/26/2013			
Client ID: MW-1-062013		Run ID: GC9_130626B			SeqNo: 636710		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDT	0.126	0.042	0.2083	0	60.5	25-163	0.1421	12		
Aldrin	0.07083	0.021	0.1042	0	68	29-148	0.07919	11.1		
Dieldrin	0.1635	0.042	0.2083	0	78.5	36-148	0.1817	10.5		
Endrin	0.1865	0.042	0.2083	0	89.5	27-168	0.2173	15.3		
gamma-BHC (Lindane)	0.05729	0.021	0.1042	0	55	20-139	0.06802	17.1		
Heptachlor	0.07812	0.021	0.1042	0	75	30-149	0.09036	14.5		
Surr: Decachlorobiphenyl	0.2812	0	0.5208	0	54	51-130	0.2985	5.94		
Surr: Tetrachloro-m-xylene	0.3812	0	0.5208	0	73.2	44-129	0.4274	11.4		

The following samples were analyzed in this batch:

1306628-02F	1306628-03F	1306628-04F
1306628-05F	1306628-06F	1306628-07F

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17406 Instrument ID HG1 Method: SW7470A

MBLK	Sample ID	MBLK-17406-17406		Units:	µg/L		Analysis Date: 6/27/2013 02:28 PM			
Client ID:		Run ID: HG1_130627A		SeqNo:	637118		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.50

LCS	Sample ID	LCS-17406-17406		Units:	µg/L		Analysis Date: 6/27/2013 02:24 PM			
Client ID:		Run ID: HG1_130627A		SeqNo:	637116		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 4.97 0.50 5 0 99.4 80-120 0

LCSD	Sample ID	LCSD-17406-17406		Units:	µg/L		Analysis Date: 6/27/2013 02:26 PM			
Client ID:		Run ID: HG1_130627A		SeqNo:	637117		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 4.9 0.50 5 0 98 80-120 4.97 1.42 20

MS	Sample ID	1306628-06CMS		Units:	µg/L		Analysis Date: 6/27/2013 02:45 PM			
Client ID: MW-1-062013		Run ID: HG1_130627A		SeqNo:	637124		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 5.17 0.50 5 -0.09 105 75-125 0

MSD	Sample ID	1306628-06CMSD		Units:	µg/L		Analysis Date: 6/27/2013 02:47 PM			
Client ID: MW-1-062013		Run ID: HG1_130627A		SeqNo:	637125		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 4.97 0.50 5 -0.09 101 75-125 5.17 3.94 20

The following samples were analyzed in this batch:

1306628-02C	1306628-03C	1306628-04C
1306628-05C	1306628-06C	1306628-07C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17407 Instrument ID HG1 Method: SW7470A (Dissolve)

MBLK	Sample ID	MBLK-17407-17407				Units:	µg/L					Analysis Date:	6/27/2013 03:40 PM	
Client ID:	Run ID: HG1_130627B				SeqNo:	637201		Prep Date:	6/26/2013		DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Mercury ND 0.50

LCS	Sample ID	LCS-17407-17407				Units:	µg/L					Analysis Date:	6/27/2013 03:36 PM	
Client ID:	Run ID: HG1_130627B				SeqNo:	637199		Prep Date:	6/26/2013		DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Mercury 4.88 0.50 5 0 97.6 80-120 0

LCSD	Sample ID	LCSD-17407-17407				Units:	µg/L					Analysis Date:	6/27/2013 03:38 PM	
Client ID:	Run ID: HG1_130627B				SeqNo:	637200		Prep Date:	6/26/2013		DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Mercury 4.87 0.50 5 0 97.4 80-120 4.88 0.205 20

MS	Sample ID	1306628-06DMS				Units:	µg/L					Analysis Date:	6/27/2013 03:57 PM	
Client ID: MW-1-062013	Run ID: HG1_130627B				SeqNo:	637207		Prep Date:	6/26/2013		DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Mercury 5.03 0.50 5 -0.05 102 75-125 0

MSD	Sample ID	1306628-06DMSD				Units:	µg/L					Analysis Date:	6/27/2013 03:59 PM	
Client ID: MW-1-062013	Run ID: HG1_130627B				SeqNo:	637208		Prep Date:	6/26/2013		DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Mercury 4.98 0.50 5 -0.05 101 75-125 5.03 0.999 20

The following samples were analyzed in this batch:

1306628-02D	1306628-03D	1306628-04D
1306628-05D	1306628-06D	1306628-07D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17351** Instrument ID **ICP3** Method: **SW6010B** (Dissolve)

MBLK	Sample ID	mbik-17351-17351		Units: mg/L		Analysis Date: 6/25/2013 09:36 AM				
Client ID:	Run ID:	ICP3_130625A		SeqNo: 635156		Prep Date: 6/24/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.20								
Antimony	ND	0.0060								
Arsenic	ND	0.010								
Barium	ND	0.10								
Beryllium	ND	0.0040								
Cadmium	ND	0.0050								
Calcium	ND	0.20								
Chromium	ND	0.020								
Cobalt	ND	0.050								
Copper	ND	0.025								
Iron	ND	0.20								
Lead	ND	0.015								
Magnesium	ND	0.20								
Manganese	ND	0.050								
Nickel	ND	0.040								
Potassium	ND	0.20								
Selenium	ND	0.030								
Silver	ND	0.010								
Sodium	ND	0.20								
Thallium	ND	0.0020								
Vanadium	ND	0.050								
Zinc	ND	0.050								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17351** Instrument ID **ICP3** Method: **SW6010B** (Dissolve)

LCS		Sample ID ics-17351-17351			Units: mg/L		Analysis Date: 6/25/2013 09:44 AM			
Client ID:		Run ID: ICP3_130625A			SeqNo: 635157		Prep Date: 6/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.14	0.20	1.1	0	104	80-120	0			
Antimony	1.1	0.030	1.1	0	100	80-120	0			
Arsenic	1.134	0.010	1.1	0	103	80-120	0			
Barium	1.173	0.10	1.1	0	107	80-120	0			
Beryllium	1.108	0.0040	1.1	0	101	80-120	0			
Cadmium	1.154	0.0050	1.1	0	105	80-120	0			
Calcium	1.058	0.20	1.1	0	96.2	80-120	0			
Chromium	1.16	0.010	1.1	0	106	80-120	0			
Cobalt	1.113	0.025	1.1	0	101	80-120	0			
Copper	1.09	0.025	1.1	0	99.1	80-120	0			
Iron	1.17	0.20	1.1	0	106	80-120	0			
Lead	1.186	0.015	1.1	0	108	80-120	0			
Magnesium	1.096	0.20	1.1	0	99.7	80-120	0			
Manganese	1.085	0.050	1.1	0	98.6	80-120	0			
Nickel	1.118	0.050	1.1	0	102	80-120	0			
Potassium	11.08	0.20	11	0	101	80-120	0			
Selenium	1.129	0.030	1.1	0	103	80-120	0			
Silver	1.146	0.010	1.1	0	104	80-120	0			
Sodium	1.156	0.10	1.1	0	105	80-120	0			
Thallium	1.132	0.0015	1.1	0	103	80-120	0			
Vanadium	1.113	0.0013	1.1	0	101	80-120	0			B
Zinc	1.126	0.050	1.1	0	102	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17351** Instrument ID **ICP3** Method: **SW6010B** (Dissolve)

LCSD	Sample ID	ICSD-17351-17351		Units: mg/L		Analysis Date: 6/25/2013 09:50 AM				
Client ID:	Run ID: ICP3_130625A			SeqNo: 635158		Prep Date: 6/24/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.147	0.20	1.1	0	104	80-120	1.14	0.673	20	
Antimony	1.095	0.030	1.1	0	99.5	80-120	1.1	0.481	20	
Arsenic	1.125	0.010	1.1	0	102	80-120	1.134	0.779	20	
Barium	1.166	0.10	1.1	0	106	80-120	1.173	0.564	20	
Beryllium	1.109	0.0040	1.1	0	101	80-120	1.108	0.0993	20	
Cadmium	1.152	0.0050	1.1	0	105	80-120	1.154	0.191	20	
Calcium	1.062	0.20	1.1	0	96.6	80-120	1.058	0.425	20	
Chromium	1.155	0.010	1.1	0	105	80-120	1.16	0.475	20	
Cobalt	1.104	0.025	1.1	0	100	80-120	1.113	0.794	20	
Copper	1.079	0.025	1.1	0	98.1	80-120	1.09	1.02	20	
Iron	1.173	0.20	1.1	0	107	80-120	1.17	0.188	20	
Lead	1.182	0.015	1.1	0	108	80-120	1.186	0.279	20	
Magnesium	1.165	0.20	1.1	0	106	80-120	1.096	6.06	20	
Manganese	1.09	0.050	1.1	0	99.1	80-120	1.085	0.455	20	
Nickel	1.111	0.050	1.1	0	101	80-120	1.118	0.592	20	
Potassium	11.08	0.20	11	0	101	80-120	11.08	0	20	
Selenium	1.122	0.030	1.1	0	102	80-120	1.129	0.587	20	
Silver	1.135	0.010	1.1	0	103	80-120	1.146	0.964	20	
Sodium	1.135	0.10	1.1	0	103	80-120	1.156	1.82	20	
Thallium	1.12	0.0015	1.1	0	102	80-120	1.132	1.07	20	
Vanadium	1.114	0.0013	1.1	0	101	80-120	1.113	0.0988	20	B
Zinc	1.121	0.050	1.1	0	102	80-120	1.126	0.489	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17351 Instrument ID ICP3 Method: SW6010B (Dissolve)

MS		Sample ID 1306628-06d ms			Units: mg/L		Analysis Date: 6/25/2013 10:49 AM			
Client ID: MW-1-062013		Run ID: ICP3_130625A			SeqNo: 635164		Prep Date: 6/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	3.511	0.20	1.1	2.51	91	75-125	0			
Antimony	1.031	0.0060	1.1	0.00297	93.4	75-125	0			
Arsenic	1.092	0.010	1.1	0.0006445	99.3	75-125	0			
Barium	1.034	0.10	1.1	0.006626	93.4	75-125	0			
Beryllium	1.069	0.0040	1.1	0.00011	97.2	75-125	0			
Cadmium	1.065	0.0050	1.1	-0.0002339	96.8	75-125	0			
Calcium	399	0.20	1.1	405.9	-630	75-125	0			SO
Chromium	1.041	0.020	1.1	0.002487	94.5	75-125	0			
Cobalt	0.9572	0.050	1.1	-0.00018	87	75-125	0			
Copper	0.9781	0.025	1.1	0.0007807	88.8	75-125	0			
Iron	2.735	0.20	1.1	1.649	98.7	75-125	0			
Lead	0.9999	0.015	1.1	0.003131	90.6	75-125	0			
Magnesium	104	0.20	1.1	105.5	-138	75-125	0			SO
Manganese	1.038	0.050	1.1	0.01089	93.4	75-125	0			
Nickel	0.9556	0.040	1.1	-0.001119	87	75-125	0			
Potassium	15.03	0.20	11	3.607	104	75-125	0			
Selenium	1.084	0.030	1.1	0.0002458	98.5	75-125	0			
Silver	1.056	0.010	1.1	1.527E-06	96	75-125	0			
Sodium	31.74	0.20	1.1	30.65	99	75-125	0			O
Thallium	0.9243	0.0020	1.1	-0.0003846	84.1	75-125	0			
Vanadium	1.087	0.050	1.1	-0.009244	99.6	75-125	0			
Zinc	0.9878	0.050	1.1	-0.002619	90	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17351 Instrument ID ICP3 Method: SW6010B (Dissolve)

MSD		Sample ID 1306628-06d msd			Units: mg/L		Analysis Date: 6/25/2013 10:56 AM			
Client ID: MW-1-062013		Run ID: ICP3_130625A			SeqNo: 635165		Prep Date: 6/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.20	1.1	2.51	-212	75-125	3.511	0	20	S
Antimony	1.057	0.0060	1.1	0.00297	95.8	75-125	1.031	2.48	20	
Arsenic	1.111	0.010	1.1	0.0006445	101	75-125	1.092	1.69	20	
Barium	1.048	0.10	1.1	0.006626	94.7	75-125	1.034	1.33	20	
Beryllium	1.049	0.0040	1.1	0.00011	95.4	75-125	1.069	1.9	20	
Cadmium	1.084	0.0050	1.1	-0.0002339	98.6	75-125	1.065	1.77	20	
Calcium	399.2	0.20	1.1	405.9	-610	75-125	399	0.0551	20	SO
Chromium	1.054	0.020	1.1	0.002487	95.6	75-125	1.041	1.2	20	
Cobalt	0.9772	0.050	1.1	-0.00018	88.9	75-125	0.9572	2.07	20	
Copper	0.9827	0.025	1.1	0.0007807	89.3	75-125	0.9781	0.471	20	
Iron	2.709	0.20	1.1	1.649	96.4	75-125	2.735	0.929	20	
Lead	1.016	0.015	1.1	0.003131	92.1	75-125	0.9999	1.59	20	
Magnesium	103.5	0.20	1.1	105.5	-179	75-125	104	0.435	20	SO
Manganese	1.019	0.050	1.1	0.01089	91.6	75-125	1.038	1.85	20	
Nickel	0.9752	0.040	1.1	-0.001119	88.8	75-125	0.9556	2.03	20	
Potassium	14.73	0.20	11	3.607	101	75-125	15.03	2	20	
Selenium	1.109	0.030	1.1	0.0002458	101	75-125	1.084	2.29	20	
Silver	1.061	0.010	1.1	1.527E-06	96.5	75-125	1.056	0.488	20	
Sodium	30.91	0.20	1.1	30.65	24	75-125	31.74	2.63	20	SO
Thallium	0.942	0.0020	1.1	-0.0003846	85.7	75-125	0.9243	1.9	20	
Vanadium	1.073	0.050	1.1	-0.009244	98.4	75-125	1.087	1.28	20	
Zinc	1.009	0.050	1.1	-0.002619	91.9	75-125	0.9878	2.1	20	

The following samples were analyzed in this batch:

1306628-02d	1306628-03d	1306628-04d
1306628-05d	1306628-06d	1306628-07d

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17352** Instrument ID **ICP3** Method: **SW6010B**

MBLK	Sample ID	mbik-17352-17352		Units: mg/L		Analysis Date: 6/25/2013 11:11 AM				
Client ID:	Run ID:	ICP3_130625A		SeqNo: 635201		Prep Date: 6/24/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.20								
Antimony	ND	0.0060								
Arsenic	ND	0.010								
Barium	ND	0.10								
Beryllium	ND	0.0040								
Cadmium	ND	0.0050								
Calcium	ND	0.20								
Chromium	ND	0.020								
Cobalt	ND	0.050								
Copper	ND	0.025								
Iron	ND	0.20								
Lead	ND	0.015								
Magnesium	ND	0.20								
Manganese	ND	0.050								
Nickel	ND	0.040								
Potassium	ND	0.20								
Selenium	ND	0.030								
Silver	ND	0.010								
Sodium	ND	0.20								
Thallium	ND	0.0020								
Vanadium	ND	0.050								
Zinc	ND	0.050								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17352** Instrument ID **ICP3** Method: **SW6010B**

LCS		Sample ID ics-17352-17352			Units: mg/L		Analysis Date: 6/25/2013 11:18 AM			
Client ID:		Run ID: ICP3_130625A			SeqNo: 635202		Prep Date: 6/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.122	0.20	1.1	0	102	80-120	0			
Antimony	1.123	0.030	1.1	0	102	80-120	0			
Arsenic	1.153	0.010	1.1	0	105	80-120	0			
Barium	1.185	0.10	1.1	0	108	80-120	0			
Beryllium	1.112	0.00040	1.1	0	101	80-120	0			
Cadmium	1.172	0.0050	1.1	0	106	80-120	0			
Calcium	1.066	0.20	1.1	0	96.9	80-120	0			
Chromium	1.175	0.020	1.1	0	107	80-120	0			
Cobalt	1.144	0.025	1.1	0	104	80-120	0			
Copper	1.095	0.025	1.1	0	99.6	80-120	0			
Iron	1.206	0.20	1.1	0	110	80-120	0			
Lead	1.209	0.015	1.1	0	110	80-120	0			
Magnesium	1.156	0.20	1.1	0	105	80-120	0			
Manganese	1.094	0.050	1.1	0	99.5	80-120	0			
Nickel	1.141	0.050	1.1	0	104	80-120	0			
Potassium	11.34	0.20	11	0	103	80-120	0			
Selenium	1.153	0.030	1.1	0	105	80-120	0			
Silver	1.159	0.010	1.1	0	105	80-120	0			
Sodium	1.191	0.20	1.1	0	108	80-120	0			
Thallium	1.159	0.0020	1.1	0	105	80-120	0			
Vanadium	1.122	0.050	1.1	0	102	80-120	0			
Zinc	1.154	0.050	1.1	0	105	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17352** Instrument ID **ICP3** Method: **SW6010B**

LCSD	Sample ID	icسد-17352-17352		Units: mg/L		Analysis Date: 6/25/2013 11:25 AM				
Client ID:	Run ID: ICP3_130625A			SeqNo: 635203		Prep Date: 6/24/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.129	0.20	1.1	0	103	80-120	1.122	0.587	20	
Antimony	1.13	0.030	1.1	0	103	80-120	1.123	0.586	20	
Arsenic	1.159	0.010	1.1	0	105	80-120	1.153	0.571	20	
Barium	1.191	0.10	1.1	0	108	80-120	1.185	0.556	20	
Beryllium	1.123	0.00040	1.1	0	102	80-120	1.112	0.984	20	
Cadmium	1.177	0.0050	1.1	0	107	80-120	1.172	0.468	20	
Calcium	1.074	0.20	1.1	0	97.7	80-120	1.066	0.75	20	
Chromium	1.177	0.020	1.1	0	107	80-120	1.175	0.187	20	
Cobalt	1.15	0.025	1.1	0	104	80-120	1.144	0.48	20	
Copper	1.11	0.025	1.1	0	101	80-120	1.095	1.32	20	
Iron	1.226	0.20	1.1	0	112	80-120	1.206	1.72	20	
Lead	1.216	0.015	1.1	0	110	80-120	1.209	0.544	20	
Magnesium	1.147	0.20	1.1	0	104	80-120	1.156	0.764	20	
Manganese	1.113	0.050	1.1	0	101	80-120	1.094	1.69	20	
Nickel	1.146	0.050	1.1	0	104	80-120	1.141	0.481	20	
Potassium	11.48	0.20	11	0	104	80-120	11.34	1.25	20	
Selenium	1.16	0.030	1.1	0	106	80-120	1.153	0.666	20	
Silver	1.169	0.010	1.1	0	106	80-120	1.159	0.85	20	
Sodium	1.203	0.20	1.1	0	109	80-120	1.191	1.01	20	
Thallium	1.165	0.0020	1.1	0	106	80-120	1.159	0.473	20	
Vanadium	1.126	0.050	1.1	0	102	80-120	1.122	0.391	20	
Zinc	1.16	0.050	1.1	0	106	80-120	1.154	0.57	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17352 Instrument ID ICP3 Method: SW6010B

MS		Sample ID 1306628-06c ms			Units: mg/L		Analysis Date: 6/25/2013 12:24 PM			
Client ID: MW-1-062013		Run ID: ICP3_130625A			SeqNo: 635209		Prep Date: 6/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	3.38	0.20	1.1	2.378	91.1	75-125	0			
Antimony	1.034	0.0060	1.1	0.001081	93.9	75-125	0			
Arsenic	1.09	0.010	1.1	-0.0009451	99.2	75-125	0			
Barium	1.051	0.10	1.1	0.01658	94.1	75-125	0			
Beryllium	0.9908	0.0040	1.1	0.0001312	90.1	75-125	0			
Cadmium	1.065	0.0050	1.1	-0.0003272	96.9	75-125	0			
Calcium	415	0.20	1.1	429.8	-1340	75-125	0			SO
Chromium	1.029	0.020	1.1	0.003862	93.2	75-125	0			
Cobalt	0.9743	0.050	1.1	-0.0001148	88.6	75-125	0			
Copper	0.9568	0.025	1.1	0.001429	86.9	75-125	0			
Iron	2.882	0.20	1.1	1.884	90.7	75-125	0			
Lead	1.011	0.015	1.1	0.003182	91.6	75-125	0			
Magnesium	101.3	0.20	1.1	105.1	-341	75-125	0			SO
Manganese	0.9706	0.050	1.1	0.01219	87.1	75-125	0			
Nickel	0.9623	0.040	1.1	-0.000886	87.6	75-125	0			
Potassium	14.39	0.20	11	3.671	97.4	75-125	0			
Selenium	1.083	0.030	1.1	0.001547	98.3	75-125	0			
Silver	1.044	0.010	1.1	0.000157	94.9	75-125	0			
Sodium	32.26	0.20	1.1	32.84	-52	75-125	0			SO
Thallium	0.9371	0.0020	1.1	-0.0001239	85.2	75-125	0			
Vanadium	1.019	0.050	1.1	-0.002992	93	75-125	0			
Zinc	1.008	0.050	1.1	0.0009088	91.5	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17352 Instrument ID ICP3 Method: SW6010B

MSD		Sample ID 1306628-06c msd			Units: mg/L		Analysis Date: 6/25/2013 12:31 PM			
Client ID: MW-1-062013		Run ID: ICP3_130625A			SeqNo: 635210		Prep Date: 6/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	3.42	0.20	1.1	2.378	94.7	75-125	3.38	1.16	20	
Antimony	1.022	0.0060	1.1	0.001081	92.8	75-125	1.034	1.12	20	
Arsenic	1.081	0.010	1.1	-0.0009451	98.3	75-125	1.09	0.841	20	
Barium	1.032	0.10	1.1	0.01658	92.3	75-125	1.051	1.91	20	
Beryllium	0.9849	0.0040	1.1	0.0001312	89.5	75-125	0.9908	0.59	20	
Cadmium	1.053	0.0050	1.1	-0.0003272	95.7	75-125	1.065	1.19	20	
Calcium	412.8	0.20	1.1	429.8	-1540	75-125	415	0.531	20	SO
Chromium	1.021	0.020	1.1	0.003862	92.5	75-125	1.029	0.762	20	
Cobalt	0.965	0.050	1.1	-0.0001148	87.7	75-125	0.9743	0.953	20	
Copper	0.9507	0.025	1.1	0.001429	86.3	75-125	0.9568	0.634	20	
Iron	2.889	0.20	1.1	1.884	91.3	75-125	2.882	0.229	20	
Lead	1.001	0.015	1.1	0.003182	90.7	75-125	1.011	0.941	20	
Magnesium	100.5	0.20	1.1	105.1	-415	75-125	101.3	0.807	20	SO
Manganese	0.9687	0.050	1.1	0.01219	87	75-125	0.9706	0.204	20	
Nickel	0.9558	0.040	1.1	-0.000886	87	75-125	0.9623	0.677	20	
Potassium	14.4	0.20	11	3.671	97.5	75-125	14.39	0.0764	20	
Selenium	1.071	0.030	1.1	0.001547	97.2	75-125	1.083	1.17	20	
Silver	1.034	0.010	1.1	0.000157	94	75-125	1.044	0.974	20	
Sodium	32.24	0.20	1.1	32.84	-54	75-125	32.26	0.0682	20	SO
Thallium	0.9304	0.0020	1.1	-0.0001239	84.6	75-125	0.9371	0.719	20	
Vanadium	1.02	0.050	1.1	-0.002992	93	75-125	1.019	0.0216	20	
Zinc	1.005	0.050	1.1	0.0009088	91.2	75-125	1.008	0.339	20	

The following samples were analyzed in this batch:

1306628-02c	1306628-03c	1306628-04c
1306628-05c	1306628-06c	1306628-07c

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100365** Instrument ID **SUB** Method: **SW8151**

MBLK		Sample ID MB-R100365-R100365			Units: µg/L		Analysis Date: 7/1/2013 05:40 PM			
Client ID:		Run ID: SUB_130701C			SeqNo: 641164		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	ND	0.20								
2,4,5-TP (Silvex)	ND	0.20								
2,4-D	ND	2.0								
2,4-DB	ND	2.0								
Dalapon	ND	5.0								
Dicamba	ND	0.20								
Dichlorprop	ND	2.0								
Dinoseb	ND	1.0								
MCPA	ND	250								
MCPP	ND	250								
Pentachlorophenol	ND	0.20								
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	120	0	100	0	120	20-144	0			

LCS		Sample ID LCS-R100365-R100365			Units: µg/L		Analysis Date: 7/1/2013 06:06 PM			
Client ID:		Run ID: SUB_130701C			SeqNo: 641165		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	0.535	0.20	0.5	0	107	30-110	0			
2,4,5-TP (Silvex)	0.484	0.20	0.5	0	96.8	30-110	0			
2,4-D	4.58	2.0	5	0	91.6	30-100	0			
2,4-DB	4.75	2.0	5	0	95	30-110	0			
Dalapon	ND	5.0	12.5	0	30.5	10-100	0			
Dicamba	0.497	0.20	0.5	0	99.4	30-135	0			
Dichlorprop	5.9	2.0	5	0	118	25-115	0			S
Dinoseb	2.34	1.0	2.5	0	93.6	30-105	0			
MCPA	406	250	500	0	81.2	25-100	0			
MCPP	427	250	500	0	85.4	30-120	0			
Pentachlorophenol	0.391	0.20	0.5	0	78.2	30-105	0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	147	0	100	0	147	20-144	0			S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100365** Instrument ID **SUB** Method: **SW8151**

MS		Sample ID 1306628-06EMS			Units: µg/L		Analysis Date: 7/2/2013 01:02 AM			
Client ID: MW-1-062013		Run ID: SUB_130701C			SeqNo: 641171		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	0.509	0.20	0.5	0	102	50-150	0			
2,4,5-TP (Silvex)	0.453	0.20	0.5	0	90.6	50-150	0			
2,4-D	4.17	2.0	5	0	83.4	50-150	0			
2,4-DB	4.45	2.0	5	0	89		0			
Dalapon	ND	5.0	12.5	0	27.1		0			
Dicamba	0.441	0.20	0.5	0	88.2		0			
Dichlorprop	5.36	2.0	5	0	107		0			
Dinoseb	2.09	1.0	2.5	0	83.6		0			
MCPA	370	250	500	0	74		0			
MCPP	393	250	500	0	78.6		0			
Pentachlorophenol	0.321	0.20	0.5	0	64.2		0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	124	0	100	0	124	20-144	0			

MSD		Sample ID 1306628-06EMSD			Units: µg/L		Analysis Date: 7/2/2013 01:28 AM			
Client ID: MW-1-062013		Run ID: SUB_130701C			SeqNo: 641172		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	0.686	0.20	0.5	0	137	50-150	0.509	29.6		
2,4,5-TP (Silvex)	0.639	0.20	0.5	0	128	50-150	0.453	34.1		
2,4-D	5.57	2.0	5	0	111	50-150	4.17	28.7		
2,4-DB	5.7	2.0	5	0	114		4.45	24.6		
Dalapon	ND	5.0	12.5	0	24.3		3.39	0		
Dicamba	0.588	0.20	0.5	0	118		0.441	28.6		
Dichlorprop	7.32	2.0	5	0	146		5.36	30.9		
Dinoseb	2.82	1.0	2.5	0	113		2.09	29.7		
MCPA	553	250	500	0	111		370	39.7		
MCPP	568	250	500	0	114		393	36.4		
Pentachlorophenol	0.459	0.20	0.5	0	91.8		0.321	35.4		
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	164	0	100	0	164	20-144	124	27.8		S

The following samples were analyzed in this batch:

1306628-02E	1306628-03E	1306628-04E
1306628-05E	1306628-06E	1306628-07E

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17356** Instrument ID **SVMS3** Method: **SW8270C**

MBLK	Sample ID	mbik-17356-17356		Units: µg/L		Analysis Date: 6/28/2013 06:31 PM				
Client ID:	Run ID:	SVMS3_130628A		SeqNo: 639069		Prep Date: 6/25/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.10								
Acenaphthene	ND	0.10								
Acenaphthylene	ND	0.10								
Anthracene	ND	0.10								
Benzo(a)anthracene	ND	0.10								
Benzo(a)pyrene	ND	0.10								
Benzo(b)fluoranthene	ND	0.11								
Benzo(g,h,i)perylene	ND	0.10								
Benzo(k)fluoranthene	ND	0.16								
Carbazole	ND	10								
Chrysene	ND	0.10								
Dibenzo(a,h)anthracene	ND	0.10								
Dibenzofuran	ND	10								
Fluoranthene	ND	0.10								
Fluorene	ND	0.10								
Indeno(1,2,3-cd)pyrene	ND	0.10								
Naphthalene	ND	0.10								
Phenanthrene	ND	0.10								
Pyrene	ND	0.10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17356 Instrument ID SVMS3 Method: SW8270C

LCS		Sample ID LCS-17356-17356			Units: µg/L		Analysis Date: 6/26/2013 11:32 AM			
Client ID:		Run ID: SVMS2_130626A			SeqNo: 636092		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	21.32	10	50	0	42.6	49.8-102	0			S
1,4-Dichlorobenzene	16.45	10	50	0	32.9	44-92.8	0			S
2,4-Dinitrotoluene	46.43	10	50	0	92.9	61.3-108	0			
2-Chlorophenol	24.53	10	50	0	49.1	33.3-89.9	0			
4-Chloro-3-methylphenol	32.91	20	50	0	65.8	39.3-96.6	0			
4-Nitrophenol	28.21	10	50	0	56.4	17.3-80.3	0			
Acenaphthene	28.35	10	50	0	56.7	40.1-123	0			
Acenaphthylene	29.75	10	50	0	59.5	59.3-126	0			
Anthracene	40.01	10	50	0	80	62.1-110	0			
Benzo(a)anthracene	37.26	10	50	0	74.5	62.3-118	0			
Benzo(a)pyrene	46.13	10	50	0	92.3	69.6-111	0			
Benzo(b)fluoranthene	39.74	10	50	0	79.5	60.1-94.5	0			
Benzo(g,h,i)perylene	40.81	10	50	0	81.6	66.8-138	0			
Benzo(k)fluoranthene	43.12	10	50	0	86.2	68.8-136	0			
Carbazole	56.97	10	50	0	114	70.8-115	0			
Chrysene	37.53	10	50	0	75.1	63.1-116	0			
Dibenzo(a,h)anthracene	34.48	10	50	0	69	47.1-168	0			
Fluoranthene	50.43	10	50	0	101	58.1-117	0			
Fluorene	33.18	10	50	0	66.4	59.5-120	0			
Indeno(1,2,3-cd)pyrene	33.15	10	50	0	66.3	56.3-141	0			
Naphthalene	23.9	10	50	0	47.8	46.6-104	0			
N-Nitrosodi-n-propylamine	30.44	10	50	0	60.9	54.8-121	0			
Pentachlorophenol	48.89	20	50	0	97.8	34.1-130	0			
Phenanthrene	38.68	10	50	0	77.4	63-118	0			
Phenol	12.72	10	50	0	25.4	17.5-68	0			
Pyrene	49.16	10	50	0	98.3	42-125	0			
Surr: 2,4,6-Tribromophenol	61.21	0	100	0	61.2	35-120	0			
Surr: 2-Fluorobiphenyl	26.37	0	50	0	52.7	38-105	0			
Surr: 2-Fluorophenol	36.02	0	100	0	36	12-89	0			
Surr: 4-Terphenyl-d14	49.93	0	50	0	99.9	42-125	0			
Surr: Nitrobenzene-d5	23.94	0	50	0	47.9	28-120	0			
Surr: Phenol-d5	25.63	0	100	0	25.6	10-62	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17356 Instrument ID SVMS3 Method: SW8270C

MS		Sample ID 1306628-06bms			Units: µg/L		Analysis Date: 6/28/2013 08:20 PM			
Client ID: MW-1-062013		Run ID: SVMS2_130628A			SeqNo: 639127		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	26.81	9.8	49.02	0	54.7		0			
2,4-Dinitrotoluene	50.49	9.8	49.02	0	103		0			
2-Chlorophenol	36.2	9.8	49.02	0	73.8		0			
4-Chloro-3-methylphenol	49.66	20	49.02	0	101		0			
4-Nitrophenol	20.84	9.8	49.02	0	42.5		0			
Acenaphthene	41.61	0.098	49.02	0	84.9		0			
Acenaphthylene	41.7	0.098	49.02	0	85.1		0			
Anthracene	46.8	0.098	49.02	0	95.5		0			
Benzo(a)anthracene	46.22	0.098	49.02	0	94.3		0			
Benzo(a)pyrene	48.2	0.098	49.02	0	98.3		0			
Benzo(b)fluoranthene	43.2	0.11	49.02	0	88.1		0			
Benzo(g,h,i)perylene	48.83	0.098	49.02	0.604	98.4		0			
Benzo(k)fluoranthene	46.52	0.16	49.02	0	94.9		0			
Carbazole	50.51	9.8	49.02	0	103		0			
Chrysene	46.83	0.098	49.02	0	95.5		0			
Dibenzo(a,h)anthracene	46.98	0.098	49.02	0.703	94.4		0			
Dibenzofuran	47.38	9.8	49.02	0	96.7		0			
Fluoranthene	46.7	0.098	49.02	0	95.3		0			
Fluorene	44.52	0.098	49.02	0	90.8		0			
Indeno(1,2,3-cd)pyrene	48.86	0.098	49.02	0.4356	98.8		0			
Naphthalene	36.25	0.098	49.02	0	73.9		0			
N-Nitrosodi-n-propylamine	43.27	9.8	49.02	0	88.3		0			
Pentachlorophenol	55.9	20	49.02	0	114		0			
Phenol	19.97	9.8	49.02	0	40.7		0			
Pyrene	43.41	0.098	49.02	0	88.6		0			
Surr: 2,4,6-Tribromophenol	82.35	0	98.04	0	84	35-120	0			
Surr: 2-Fluorobiphenyl	38.45	0	49.02	0	78.4	38-105	0			
Surr: 2-Fluorophenol	45.3	0	98.04	0	46.2	12-89	0			
Surr: 4-Terphenyl-d14	41.07	0	49.02	0	83.8	42-125	0			
Surr: Nitrobenzene-d5	37.01	0	49.02	0	75.5	28-120	0			
Surr: Phenol-d5	34.77	0	98.04	0	35.5	10-62	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17356 Instrument ID SVMS3 Method: SW8270C

MSD		Sample ID 1306628-06bmsd			Units: µg/L		Analysis Date: 6/28/2013 08:55 PM			
Client ID: MW-1-062013		Run ID: SVMS2_130628A			SeqNo: 639128		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	32.34	9.8	49.02	0	66		32.63	0.875		
1,4-Dichlorobenzene	27.24	9.8	49.02	0	55.6		26.81	1.56		
2,4-Dinitrotoluene	46.36	9.8	49.02	0	94.6		50.49	8.52		
2-Chlorophenol	32.88	9.8	49.02	0	67.1		36.2	9.59		
4-Chloro-3-methylphenol	46.67	20	49.02	0	95.2		49.66	6.21		
4-Nitrophenol	17.55	9.8	49.02	0	35.8		20.84	17.2		
Acenaphthene	39.5	0.098	49.02	0	80.6		41.61	5.2		
Acenaphthylene	38.9	0.098	49.02	0	79.4		41.7	6.93		
Anthracene	43.48	0.098	49.02	0	88.7		46.8	7.36		
Benzo(a)anthracene	43.12	0.098	49.02	0	88		46.22	6.94		
Benzo(a)pyrene	45.71	0.098	49.02	0	93.2		48.2	5.3		
Benzo(b)fluoranthene	39.08	0.11	49.02	0	79.7		43.2	10		
Benzo(g,h,i)perylene	40.82	0.098	49.02	0.604	82		48.83	17.9		
Benzo(k)fluoranthene	45.89	0.16	49.02	0	93.6		46.52	1.36		
Carbazole	46.5	9.8	49.02	0	94.9		50.51	8.27		
Chrysene	45.26	0.098	49.02	0	92.3		46.83	3.41		
Dibenzo(a,h)anthracene	41.96	0.098	49.02	0.703	84.2		46.98	11.3		
Dibenzofuran	43.81	9.8	49.02	0	89.4		47.38	7.83		
Fluoranthene	43.19	0.098	49.02	0	88.1		46.7	7.81		
Fluorene	42.06	0.098	49.02	0	85.8		44.52	5.68		
Indeno(1,2,3-cd)pyrene	42.73	0.098	49.02	0.4356	86.3		48.86	13.4		
Naphthalene	33.86	0.098	49.02	0	69.1		36.25	6.8		
N-Nitrosodi-n-propylamine	40.94	9.8	49.02	0	83.5		43.27	5.54		
Pentachlorophenol	49.38	20	49.02	0	101		55.9	12.4		
Phenol	20.42	9.8	49.02	0	41.7		19.97	2.23		
Pyrene	40.96	0.098	49.02	0	83.6		43.41	5.81		
Surr: 2,4,6-Tribromophenol	82.72	0	98.04	0	84.4	35-120	82.35	0.44		
Surr: 2-Fluorobiphenyl	37.48	0	49.02	0	76.5	38-105	38.45	2.56		
Surr: 2-Fluorophenol	44.18	0	98.04	0	45.1	12-89	45.3	2.52		
Surr: 4-Terphenyl-d14	39.99	0	49.02	0	81.6	42-125	41.07	2.66		
Surr: Nitrobenzene-d5	36.32	0	49.02	0	74.1	28-120	37.01	1.87		
Surr: Phenol-d5	36.7	0	98.04	0	37.4	10-62	34.77	5.38		

The following samples were analyzed in this batch:

1306628-02b	1306628-03b	1306628-04b
1306628-05b	1306628-06b	1306628-07b

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100148** Instrument ID **VMS2** Method: **SW8260**

MBLK	Sample ID	MBLK-R100148		Units: µg/L		Analysis Date: 6/27/2013 09:53 AM				
Client ID:		Run ID: VMS2_130627A		SeqNo: 636853		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1306628
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R100148	Instrument ID VMS2	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	2.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	50.79	0	50	0	102	61-131	0
<i>Surr: Dibromofluoromethane</i>	52.09	0	50	0	104	87-126	0
<i>Surr: Toluene-d8</i>	49.85	0	50	0	99.7	84-111	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100148** Instrument ID **VMS2** Method: **SW8260**

LCS		Sample ID LCS-R100148			Units: µg/L		Analysis Date: 6/27/2013 10:25 AM			
Client ID:		Run ID: VMS2_130627A			SeqNo: 636854		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	35.1	5.0	50	0	70.2	48.4-140	0			
1,1-Dichloroethane	34.42	5.0	50	0	68.8	45.5-150	0			
1,2-Dichloroethane	32.07	5.0	50	0	64.1	46.5-141	0			
1,3-Dichlorobenzene	35.37	5.0	50	0	70.7	42.5-133	0			
1,4-Dichlorobenzene	34.8	5.0	50	0	69.6	38.9-136	0			
Benzene	34.21	5.0	50	0	68.4	50.7-134	0			
Carbon tetrachloride	32.63	5.0	50	0	65.3	45.5-143	0			
Chlorobenzene	34.27	5.0	50	0	68.5	45-133	0			
Chloroform	32.8	5.0	50	0	65.6	52.4-136	0			
cis-1,2-Dichloroethene	34.97	5.0	50	0	69.9	49.7-138	0			
Ethylbenzene	33.88	5.0	50	0	67.8	37.8-145	0			
m,p-Xylene	66.1	5.0	100	0	66.1	25.1-163	0			
Styrene	31.55	5.0	50	0	63.1	26.3-172	0			
Tetrachloroethene	34.07	5.0	50	0	68.1	37.3-139	0			
Toluene	33.36	5.0	50	0	66.7	44-135	0			
Trichloroethene	37.83	5.0	50	0	75.7	46.9-134	0			
<i>Surr: 4-Bromofluorobenzene</i>	61.83	0	50	0	124	61-131	0			
<i>Surr: Dibromofluoromethane</i>	52.85	0	50	0	106	87-126	0			
<i>Surr: Toluene-d8</i>	50.41	0	50	0	101	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100148** Instrument ID **VMS2** Method: **SW8260**

MS		Sample ID 1306628-06A MS			Units: µg/L		Analysis Date: 6/27/2013 12:30 PM			
Client ID: MW-1-062013		Run ID: VMS2_130627A			SeqNo: 637019		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.96	5.0	50	0	99.9	47.4-141	0			
1,1-Dichloroethene	42.08	5.0	50	0	84.2	56.3-140	0			
1,2-Dichloroethane	49.88	5.0	50	0	99.8	50.1-139	0			
1,3-Dichlorobenzene	43.12	5.0	50	0	86.2	53-127	0			
1,4-Dichlorobenzene	42.24	5.0	50	0	84.5	53.4-129	0			
Benzene	41.1	5.0	50	0	82.2	52.8-136	0			
Carbon tetrachloride	49.51	5.0	50	0	99	48.1-141	0			
Chlorobenzene	43.65	5.0	50	0	87.3	52.4-132	0			
Chloroform	44.84	5.0	50	0	89.7	52.9-136	0			
cis-1,2-Dichloroethene	44.54	5.0	50	0	89.1	63.5-128	0			
Ethylbenzene	44.07	5.0	50	0	88.1	46.5-146	0			
m,p-Xylene	85.34	5.0	100	0	85.3	38.2-167	0			
Styrene	43.19	5.0	50	0	86.4	20.9-184	0			
Tetrachloroethene	33.19	5.0	50	0	66.4	55.2-134	0			
Toluene	44.44	5.0	50	0	88.9	45.1-138	0			
Trichloroethene	46.18	5.0	50	0	92.4	52.8-133	0			
<i>Surr: 4-Bromofluorobenzene</i>	50.36	0	50	0	101	61-131	0			
<i>Surr: Dibromofluoromethane</i>	51.19	0	50	0	102	87-126	0			
<i>Surr: Toluene-d8</i>	52.03	0	50	0	104	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100148** Instrument ID **VMS2** Method: **SW8260**

MSD		Sample ID 1306628-06A MSD			Units: $\mu\text{g/L}$		Analysis Date: 6/27/2013 02:04 PM			
Client ID: MW-1-062013		Run ID: VMS2_130627A			SeqNo: 637022		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	37.67	5.0	50	0	75.3	47.4-141	49.96	28	20	R
1,1-Dichloroethane	40.92	5.0	50	0	81.8	56.3-140	42.08	2.8	20	
1,2-Dichloroethane	38.81	5.0	50	0	77.6	50.1-139	49.88	25	20	R
1,3-Dichlorobenzene	40.93	5.0	50	0	81.9	53-127	43.12	5.21	20	
1,4-Dichlorobenzene	40.36	5.0	50	0	80.7	53.4-129	42.24	4.55	20	
Benzene	30	5.0	50	0	60	52.8-136	41.1	31.2	20	R
Carbon tetrachloride	37.6	5.0	50	0	75.2	48.1-141	49.51	27.3	20	R
Chlorobenzene	40.67	5.0	50	0	81.3	52.4-132	43.65	7.07	20	
Chloroform	44.04	5.0	50	0	88.1	52.9-136	44.84	1.8	20	
cis-1,2-Dichloroethene	43.16	5.0	50	0	86.3	63.5-128	44.54	3.15	20	
Ethylbenzene	41.94	5.0	50	0	83.9	46.5-146	44.07	4.95	20	
m,p-Xylene	81.94	5.0	100	0	81.9	38.2-167	85.34	4.07	20	
Styrene	40.45	5.0	50	0	80.9	20.9-184	43.19	6.55	20	
Tetrachloroethene	40.13	5.0	50	0	80.3	55.2-134	33.19	18.9	20	
Toluene	42.75	5.0	50	0	85.5	45.1-138	44.44	3.88	20	
Trichloroethene	43.07	5.0	50	0	86.1	52.8-133	46.18	6.97	20	
<i>Surr: 4-Bromofluorobenzene</i>	47.59	0	50	0	95.2	61-131	50.36	5.66		
<i>Surr: Dibromofluoromethane</i>	53.28	0	50	0	107	87-126	51.19	4		
<i>Surr: Toluene-d8</i>	50.8	0	50	0	102	84-111	52.03	2.39		

The following samples were analyzed in this batch:

1306628-01A	1306628-02A	1306628-03A
1306628-04A	1306628-06A	1306628-07A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100230** Instrument ID **VMS1** Method: **SW8260**

MBLK	Sample ID	MBLK-R100230		Units: µg/L		Analysis Date: 6/28/2013 03:13 PM				
Client ID:		Run ID: VMS1_130628A		SeqNo: 638531		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1306628
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R100230	Instrument ID VMS1	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	2.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	46.65	0	50	0	93.3	61-131	0
<i>Surr: Dibromofluoromethane</i>	49.65	0	50	0	99.3	87-126	0
<i>Surr: Toluene-d8</i>	49.58	0	50	0	99.2	84-111	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100230** Instrument ID **VMS1** Method: **SW8260**

LCS		Sample ID LCS-R100230			Units: µg/L		Analysis Date: 6/28/2013 01:42 PM			
Client ID:		Run ID: VMS1_130628A			SeqNo: 638528		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	30.17	5.0	50	0	60.3	48.4-140	0			
1,1-Dichloroethane	30.99	5.0	50	0	62	45.5-150	0			
1,2-Dichloroethane	30.88	5.0	50	0	61.8	46.5-141	0			
1,3-Dichlorobenzene	38.29	5.0	50	0	76.6	42.5-133	0			
1,4-Dichlorobenzene	38.56	5.0	50	0	77.1	38.9-136	0			
Benzene	36.67	5.0	50	0	73.3	50.7-134	0			
Carbon tetrachloride	35.21	5.0	50	0	70.4	45.5-143	0			
Chlorobenzene	39.64	5.0	50	0	79.3	45-133	0			
Chloroform	38.14	5.0	50	0	76.3	52.4-136	0			
cis-1,2-Dichloroethene	37.28	5.0	50	0	74.6	49.7-138	0			
Ethylbenzene	38.69	5.0	50	0	77.4	37.8-145	0			
m,p-Xylene	68.24	5.0	100	0	68.2	25.1-163	0			
Styrene	42.91	5.0	50	0	85.8	26.3-172	0			
Tetrachloroethene	37.64	5.0	50	0	75.3	37.3-139	0			
Toluene	41.59	5.0	50	0	83.2	44-135	0			
Trichloroethene	30.84	5.0	50	0	61.7	46.9-134	0			
<i>Surr: 4-Bromofluorobenzene</i>	57.03	0	50	0	114	61-131	0			
<i>Surr: Dibromofluoromethane</i>	50.86	0	50	0	102	87-126	0			
<i>Surr: Toluene-d8</i>	48.25	0	50	0	96.5	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100230** Instrument ID **VMS1** Method: **SW8260**

MS		Sample ID 1306628-01A MS			Units: µg/L		Analysis Date: 6/28/2013 02:12 PM			
Client ID: TB-062013		Run ID: VMS1_130628A			SeqNo: 638529		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	42.8	5.0	50	0	85.6	47.4-141	0			
1,1-Dichloroethane	48.11	5.0	50	0	96.2	56.3-140	0			
1,2-Dichloroethane	51.84	5.0	50	0	104	50.1-139	0			
1,3-Dichlorobenzene	49.16	5.0	50	0	98.3	53-127	0			
1,4-Dichlorobenzene	47.89	5.0	50	0	95.8	53.4-129	0			
Benzene	61.28	5.0	50	0	123	52.8-136	0			
Carbon tetrachloride	46.45	5.0	50	0	92.9	48.1-141	0			
Chlorobenzene	50.02	5.0	50	0	100	52.4-132	0			
Chloroform	44.94	5.0	50	0	89.9	52.9-136	0			
cis-1,2-Dichloroethene	46.83	5.0	50	0	93.7	63.5-128	0			
Ethylbenzene	47.43	5.0	50	0	94.9	46.5-146	0			
m,p-Xylene	82.95	5.0	100	0	83	38.2-167	0			
Styrene	50.36	5.0	50	0	101	20.9-184	0			
Tetrachloroethene	46.6	5.0	50	0	93.2	55.2-134	0			
Toluene	56.24	5.0	50	0	112	45.1-138	0			
Trichloroethene	50.12	5.0	50	0	100	52.8-133	0			
<i>Surr: 4-Bromofluorobenzene</i>	44.11	0	50	0	88.2	61-131	0			
<i>Surr: Dibromofluoromethane</i>	50.5	0	50	0	101	87-126	0			
<i>Surr: Toluene-d8</i>	47.37	0	50	0	94.7	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306628
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100230** Instrument ID **VMS1** Method: **SW8260**

MSD		Sample ID 1306628-01A MSD			Units: µg/L		Analysis Date: 6/28/2013 02:42 PM			
Client ID: TB-062013		Run ID: VMS1_130628A			SeqNo: 638530		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	47.74	5.0	50	0	95.5	47.4-141	42.8	10.9	20	
1,1-Dichloroethane	68.24	5.0	50	0	136	56.3-140	48.11	34.6	20	R
1,2-Dichloroethane	55.5	5.0	50	0	111	50.1-139	51.84	6.82	20	
1,3-Dichlorobenzene	47.39	5.0	50	0	94.8	53-127	49.16	3.67	20	
1,4-Dichlorobenzene	51.22	5.0	50	0	102	53.4-129	47.89	6.72	20	
Benzene	62.2	5.0	50	0	124	52.8-136	61.28	1.49	20	
Carbon tetrachloride	48.35	5.0	50	0	96.7	48.1-141	46.45	4.01	20	
Chlorobenzene	53.14	5.0	50	0	106	52.4-132	50.02	6.05	20	
Chloroform	54.68	5.0	50	0	109	52.9-136	44.94	19.6	20	
cis-1,2-Dichloroethene	54	5.0	50	0	108	63.5-128	46.83	14.2	20	
Ethylbenzene	50.48	5.0	50	0	101	46.5-146	47.43	6.23	20	
m,p-Xylene	93.79	5.0	100	0	93.8	38.2-167	82.95	12.3	20	
Styrene	59.33	5.0	50	0	119	20.9-184	50.36	16.4	20	
Tetrachloroethene	54.7	5.0	50	0	109	55.2-134	46.6	16	20	
Toluene	58.25	5.0	50	0	116	45.1-138	56.24	3.51	20	
Trichloroethene	50.61	5.0	50	0	101	52.8-133	50.12	0.973	20	
<i>Surr: 4-Bromofluorobenzene</i>	46.72	0	50	0	93.4	61-131	44.11	5.75		
<i>Surr: Dibromofluoromethane</i>	49.35	0	50	0	98.7	87-126	50.5	2.3		
<i>Surr: Toluene-d8</i>	49.95	0	50	0	99.9	84-111	47.37	5.3		

The following samples were analyzed in this batch:

1306628-04A	1306628-05A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1306628
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100178** Instrument ID **WETCHEM** Method: **E310.1**

MBLK		Sample ID MB-R100178-R100178				Units: mg/L		Analysis Date: 6/27/2013		
Client ID:		Run ID: WETCHEM_130627B				SeqNo: 637246		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (as CaCO3)	ND	4.0								

DUP		Sample ID 1306628-07I DUP				Units: mg/L		Analysis Date: 6/27/2013		
Client ID: MW-2-062013		Run ID: WETCHEM_130627B				SeqNo: 637250		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (as CaCO3)	598	4.0	0	0	0		598	0		

The following samples were analyzed in this batch:
1306628-04H 1306628-07I

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
WorkOrder: 1306628

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
%	
µg/L	
mg/L	
pH Units	

Sample Receipt Checklist

Client Name: AECOM-CINCINNATI

Date/Time Received: 21-Jun-13 17:45

Work Order: 1306628

Received by: CEG

Checklist completed by Jan Wilcox 24-Jun-13
eSignature Date

Reviewed by: Chris Gibson 24-Jun-13
eSignature Date

Matrices:

Carrier name: Client

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 4.2

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

[Empty text box for comments]

CorrectiveAction:

[Empty text box for corrective action]



ALS Laboratory Group

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Chain of Custody Form

ALS Laboratory Group

3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

AS
E4
E8
C6
CS

4.2°C

1306628

Page ____ of ____

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	VOC 8260B (2)											
Work Order		Project Number	60299534	B	SVOC 8270C (1)											
Company Name	AECOM	Bill To Company	AECOM	C	Total Metals 6020A (1)											
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D	Dissolved Metals 6020A (1)											
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E	Herbicide 8081 (1)											
				F	Pesticide 8081 (1)											
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G	PCB 8082A (1)											
Phone	(513) 878-6853	Phone	(513) 878-6844	H	Asbestos 100.1											
Fax	(513) 878-6848	Fax	(513) 878-6848	I	pH/Alkalinity 305.1/310.1											
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	TB-062013	01 6/20/13	-	W	HCL	1	X										
2	MW-3-062013	02 6/20/13	1923	W	HCL	8	X	X	X	X	X	X	X				
3	MW-4-062013	03 ↓	1700	W	"	8	X	X	X	X	X	X	X				
4	MW-5-062013	04 ↓	1306	W	"	8	X	X	X	X	X	X	X		X		
5	MW-5-062013-B	05 6/20/13	1306	W	"	8	X	X	X	X	X	X	X				
6	MW-1-062113	06 6/21/13	0926	W	"	8	X	X	X	X	X	X	X				
7	MW-1-062113-US	↓	0926	W	"	8	X	X	X	X	X	X	X				
8	MW-1-062113-MSD	↓	0926	W	"	8	X	X	X	X	X	X	X				
9	MW-2-062113	07 ↓	1243	W	"	9	X	X	X	X	X	X	X	X	X	X	
10																	

Sampler(s) Please Print & Sign <i>Michael Papp / Michael Papp</i>		Shipment Method Sample Receiving		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:	
Relinquished by: <i>Michael Papp</i>	Date: 6/21/13	Time: 1745	Received by: <i>[Signature]</i>	Notes:					
Relinquished by:	Date:	Time:	Received by (Laboratory): 6/21/13 1745	Cooler ID		Cooler Temp.		QC Package: (Check One Box Below)	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):					<input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP Checklist <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other / EDD	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035									

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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23-Aug-2013

Elaine Nomina
AECOM
4219 Malsbury Road
Cincinnati, OH 45242

Tel: (513) 878-6853
Fax: (513) 878-6848

Re: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: **1306670**

Dear Elaine,

ALS Environmental received 4 samples on 25-Jun-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 52.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

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Environmental

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RIGHT SOLUTIONS RIGHT PARTNER

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1306670

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1306670-01	TB-062413	Water		6/24/2013	6/25/2013	<input type="checkbox"/>
1306670-02	MW-6-062413	Water		6/24/2013	6/25/2013	<input type="checkbox"/>
1306670-02	MW-6-062413	Water		6/24/2013	6/25/2013	<input type="checkbox"/>
1306670-04	EB-062413	Water		6/24/2013	6/25/2013	<input type="checkbox"/>
1306670-04	EB-062413	Water		6/24/2013	6/25/2013	<input type="checkbox"/>

ALS Environmental

Date: 23-Aug-13

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1306670

Case Narrative

The analyses requested were analyzed according to Ohio Voluntary Action Program requirements.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The herbicides analyses were performed by Microbac Laboratories, Marietta, OH.

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: TB-062413

Lab ID: 1306670-01

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: LAK
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	7/1/2013 06:06 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	7/1/2013 06:06 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	7/1/2013 06:06 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	7/1/2013 06:06 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	7/1/2013 06:06 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	7/1/2013 06:06 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	7/1/2013 06:06 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	7/1/2013 06:06 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	7/1/2013 06:06 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	7/1/2013 06:06 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	7/1/2013 06:06 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	7/1/2013 06:06 PM
2-Butanone	ND		5.0	µg/L	1	7/1/2013 06:06 PM
2-Chlorotoluene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
2-Hexanone	ND		5.0	µg/L	1	7/1/2013 06:06 PM
4-Chlorotoluene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Acetone	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Benzene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Bromobenzene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Bromochloromethane	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Bromodichloromethane	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Bromoform	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Bromomethane	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Carbon disulfide	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Carbon tetrachloride	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Chlorobenzene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Chloroethane	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Chloroform	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Chloromethane	ND		5.0	µg/L	1	7/1/2013 06:06 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: TB-062413

Lab ID: 1306670-01

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Dibromochloromethane	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Dibromomethane	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Ethylbenzene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Isopropylbenzene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
m,p-Xylene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Methylene chloride	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Naphthalene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
n-Butylbenzene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
n-Propylbenzene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
o-Xylene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
sec-Butylbenzene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Styrene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
tert-Butylbenzene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Tetrachloroethene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Toluene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Trichloroethene	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	7/1/2013 06:06 PM
Vinyl chloride	ND		2.0	µg/L	1	7/1/2013 06:06 PM
Xylenes, Total	ND		5.0	µg/L	1	7/1/2013 06:06 PM
<i>Surr: 4-Bromofluorobenzene</i>	98.5		61-131	%REC	1	7/1/2013 06:06 PM
<i>Surr: Dibromofluoromethane</i>	97.8		87-126	%REC	1	7/1/2013 06:06 PM
<i>Surr: Toluene-d8</i>	101		84-111	%REC	1	7/1/2013 06:06 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: MW-6-062413

Lab ID: 1306670-02

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/25/2013	Analyst: SAD
4,4'-DDD	ND		0.040	µg/L	1	6/26/2013
4,4'-DDE	ND		0.040	µg/L	1	6/26/2013
4,4'-DDT	ND		0.040	µg/L	1	6/26/2013
Aldrin	ND		0.020	µg/L	1	6/26/2013
alpha-BHC	ND		0.020	µg/L	1	6/26/2013
beta-BHC	ND		0.020	µg/L	1	6/26/2013
Chlordane	ND		1.0	µg/L	1	6/26/2013
delta-BHC	ND		0.020	µg/L	1	6/26/2013
Dieldrin	ND		0.040	µg/L	1	6/26/2013
Endosulfan I	ND		0.020	µg/L	1	6/26/2013
Endosulfan II	ND		0.040	µg/L	1	6/26/2013
Endosulfan sulfate	ND		0.040	µg/L	1	6/26/2013
Endrin	ND		0.040	µg/L	1	6/26/2013
Endrin aldehyde	ND		0.040	µg/L	1	6/26/2013
Endrin ketone	ND		0.040	µg/L	1	6/26/2013
gamma-BHC (Lindane)	ND		0.020	µg/L	1	6/26/2013
Heptachlor	ND		0.020	µg/L	1	6/26/2013
Heptachlor epoxide	ND		0.020	µg/L	1	6/26/2013
Methoxychlor	ND		0.20	µg/L	1	6/26/2013
Toxaphene	ND		5.0	µg/L	1	6/26/2013
<i>Surr: Decachlorobiphenyl</i>	81.8		11-146	%REC	1	6/26/2013
<i>Surr: Tetrachloro-m-xylene</i>	86.8		35-132	%REC	1	6/26/2013
PCBS			SW8082		Prep Date: 6/25/2013	Analyst: SAD
Aroclor 1016	ND		0.50	µg/L	1	6/27/2013
Aroclor 1221	ND		0.50	µg/L	1	6/27/2013
Aroclor 1232	ND		0.50	µg/L	1	6/27/2013
Aroclor 1242	ND		0.50	µg/L	1	6/27/2013
Aroclor 1248	ND		0.50	µg/L	1	6/27/2013
Aroclor 1254	ND		0.50	µg/L	1	6/27/2013
Aroclor 1260	ND		0.50	µg/L	1	6/27/2013
<i>Surr: Decachlorobiphenyl</i>	83.6		37-108	%REC	1	6/27/2013
<i>Surr: Tetrachloro-m-xylene</i>	100		9-136	%REC	1	6/27/2013
MERCURY BY CVAA			SW7470A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	6/27/2013 02:51 PM
MERCURY BY CVAA (DISSOLVED)			SW7470A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	6/27/2013 04:03 PM
METALS BY ICP			SW6010B		Prep Date: 6/26/2013	Analyst: VAW

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: MW-6-062413

Lab ID: 1306670-02

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Aluminum	ND		0.20	mg/L	1	6/26/2013 05:17 PM
Antimony	ND		0.0060	mg/L	1	6/26/2013 05:17 PM
Arsenic	ND		0.010	mg/L	1	6/26/2013 05:17 PM
Barium	ND		0.10	mg/L	1	6/26/2013 05:17 PM
Beryllium	ND		0.0040	mg/L	1	6/26/2013 05:17 PM
Cadmium	ND		0.0050	mg/L	1	6/26/2013 05:17 PM
Calcium	210		0.20	mg/L	1	6/26/2013 05:17 PM
Chromium	ND		0.020	mg/L	1	6/26/2013 05:17 PM
Cobalt	ND		0.050	mg/L	1	6/26/2013 05:17 PM
Copper	ND		0.025	mg/L	1	6/26/2013 05:17 PM
Iron	1.0		0.20	mg/L	1	6/26/2013 05:17 PM
Lead	ND		0.015	mg/L	1	6/26/2013 05:17 PM
Magnesium	69		0.20	mg/L	1	6/26/2013 05:17 PM
Manganese	0.40		0.050	mg/L	1	6/26/2013 05:17 PM
Nickel	ND		0.040	mg/L	1	6/26/2013 05:17 PM
Potassium	4.0		0.20	mg/L	1	6/26/2013 05:17 PM
Selenium	ND		0.030	mg/L	1	6/26/2013 05:17 PM
Silver	ND		0.010	mg/L	1	6/26/2013 05:17 PM
Sodium	64		0.20	mg/L	1	6/26/2013 05:17 PM
Thallium	ND		0.0020	mg/L	1	6/26/2013 05:17 PM
Vanadium	ND		0.050	mg/L	1	6/26/2013 05:17 PM
Zinc	ND		0.050	mg/L	1	6/26/2013 05:17 PM

METALS BY ICP (DISSOLVED)

SW6010B

Prep Date: 6/26/2013

Analyst: VAW

Aluminum	ND		0.20	mg/L	1	6/26/2013 04:20 PM
Antimony	ND		0.0060	mg/L	1	6/26/2013 04:20 PM
Arsenic	ND		0.010	mg/L	1	6/26/2013 04:20 PM
Barium	ND		0.10	mg/L	1	6/26/2013 04:20 PM
Beryllium	ND		0.0040	mg/L	1	6/26/2013 04:20 PM
Cadmium	ND		0.0050	mg/L	1	6/26/2013 04:20 PM
Calcium	210		0.20	mg/L	1	6/26/2013 04:20 PM
Chromium	ND		0.020	mg/L	1	6/26/2013 04:20 PM
Cobalt	ND		0.050	mg/L	1	6/26/2013 04:20 PM
Copper	ND		0.025	mg/L	1	6/26/2013 04:20 PM
Iron	0.56		0.20	mg/L	1	6/26/2013 04:20 PM
Lead	ND		0.015	mg/L	1	6/26/2013 04:20 PM
Magnesium	69		0.20	mg/L	1	6/26/2013 04:20 PM
Manganese	0.40		0.050	mg/L	1	6/26/2013 04:20 PM
Nickel	ND		0.040	mg/L	1	6/26/2013 04:20 PM
Potassium	3.7		0.20	mg/L	1	6/26/2013 04:20 PM
Selenium	ND		0.030	mg/L	1	6/26/2013 04:20 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: MW-6-062413

Lab ID: 1306670-02

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Silver	ND		0.010	mg/L	1	6/26/2013 04:20 PM
Sodium	63		0.20	mg/L	1	6/26/2013 04:20 PM
Thallium	ND		0.0050	mg/L	1	6/26/2013 04:20 PM
Vanadium	ND		0.050	mg/L	1	6/26/2013 04:20 PM
Zinc	ND		0.050	mg/L	1	6/26/2013 04:20 PM
HERBICIDES			SW8151		Prep Date: 6/26/2013	Analyst: Microb
2,4,5-T	ND		0.20	µg/L	1	7/2/2013 01:54 AM
2,4,5-TP (Silvex)	ND		0.20	µg/L	1	7/2/2013 01:54 AM
2,4-D	ND		2.0	µg/L	1	7/2/2013 01:54 AM
2,4-DB	ND		2.0	µg/L	1	7/2/2013 01:54 AM
Dalapon	ND		5.0	µg/L	1	7/2/2013 01:54 AM
Dicamba	ND		0.20	µg/L	1	7/2/2013 01:54 AM
Dichlorprop	ND		2.0	µg/L	1	7/2/2013 01:54 AM
Dinoseb	ND		1.0	µg/L	1	7/2/2013 01:54 AM
MCPA	ND		250	µg/L	1	7/2/2013 01:54 AM
MCPP	ND		250	µg/L	1	7/2/2013 01:54 AM
Pentachlorophenol	ND		0.20	µg/L	1	7/2/2013 01:54 AM
Surr: 2,4-Dichlorophenylacetic acid	169	S	20-144	%REC	1	7/2/2013 01:54 AM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 6/27/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		10	µg/L	1	6/29/2013 01:00 AM
1,2,4-Trichlorobenzene	ND		10	µg/L	1	6/29/2013 01:00 AM
1,2-Dichlorobenzene	ND		10	µg/L	1	6/29/2013 01:00 AM
1,3-Dichlorobenzene	ND		10	µg/L	1	6/29/2013 01:00 AM
1,3-Dinitrobenzene	ND		10	µg/L	1	6/29/2013 01:00 AM
1,4-Dichlorobenzene	ND		10	µg/L	1	6/29/2013 01:00 AM
1-Methylnaphthalene	ND		0.10	µg/L	1	6/28/2013 10:39 PM
1-Naphthylamine	ND		10	µg/L	1	6/29/2013 01:00 AM
2,3,4,6-Tetrachlorophenol	ND		10	µg/L	1	6/29/2013 01:00 AM
2,4,5-Trichlorophenol	ND		10	µg/L	1	6/29/2013 01:00 AM
2,4,6-Trichlorophenol	ND		10	µg/L	1	6/29/2013 01:00 AM
2,4-Dichlorophenol	ND		10	µg/L	1	6/29/2013 01:00 AM
2,4-Dimethylphenol	ND		10	µg/L	1	6/29/2013 01:00 AM
2,4-Dinitrophenol	ND		10	µg/L	1	6/29/2013 01:00 AM
2,4-Dinitrotoluene	ND		10	µg/L	1	6/29/2013 01:00 AM
2,6-Dichlorophenol	ND		10	µg/L	1	6/29/2013 01:00 AM
2,6-Dinitrotoluene	ND		10	µg/L	1	6/29/2013 01:00 AM
2-Acetylaminofluorene	ND		10	µg/L	1	6/29/2013 01:00 AM
2-Chloronaphthalene	ND		10	µg/L	1	6/29/2013 01:00 AM
2-Chlorophenol	ND		10	µg/L	1	6/29/2013 01:00 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: MW-6-062413

Lab ID: 1306670-02

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Methylnaphthalene	ND		0.10	µg/L	1	6/28/2013 10:39 PM
2-Methylphenol	ND		10	µg/L	1	6/29/2013 01:00 AM
2-Naphthylamine	ND		21	µg/L	1	6/29/2013 01:00 AM
2-Nitroaniline	ND		10	µg/L	1	6/29/2013 01:00 AM
2-Nitrophenol	ND		10	µg/L	1	6/29/2013 01:00 AM
2-Picoline	ND		21	µg/L	1	6/29/2013 01:00 AM
3&4-Methylphenol	ND		10	µg/L	1	6/29/2013 01:00 AM
3,3'-Dichlorobenzidine	ND		10	µg/L	1	6/29/2013 01:00 AM
3-Methylcholanthrene	ND		21	µg/L	1	6/29/2013 01:00 AM
3-Nitroaniline	ND		21	µg/L	1	6/29/2013 01:00 AM
4,6-Dinitro-2-methylphenol	ND		21	µg/L	1	6/29/2013 01:00 AM
4-Aminobiphenyl	ND		10	µg/L	1	6/29/2013 01:00 AM
4-Bromophenyl phenyl ether	ND		21	µg/L	1	6/29/2013 01:00 AM
4-Chloro-3-methylphenol	ND		21	µg/L	1	6/29/2013 01:00 AM
4-Chloroaniline	ND		10	µg/L	1	6/29/2013 01:00 AM
4-Chlorophenyl phenyl ether	ND		21	µg/L	1	6/29/2013 01:00 AM
4-Nitroaniline	ND		21	µg/L	1	6/29/2013 01:00 AM
4-Nitrophenol	ND		10	µg/L	1	6/29/2013 01:00 AM
4-Nitroquinoline 1-oxide	ND		10	µg/L	1	6/29/2013 01:00 AM
5-Nitro-o-toluidine	ND		10	µg/L	1	6/29/2013 01:00 AM
7,12-Dimethylbenz(a)anthracene	ND		10	µg/L	1	6/29/2013 01:00 AM
Acenaphthene	ND		0.10	µg/L	1	6/28/2013 10:39 PM
Acenaphthylene	ND		0.10	µg/L	1	6/28/2013 10:39 PM
Acetophenone	ND		10	µg/L	1	6/29/2013 01:00 AM
Aniline	ND		10	µg/L	1	6/29/2013 01:00 AM
Anthracene	ND		0.10	µg/L	1	6/28/2013 10:39 PM
Azobenzene	ND		10	µg/L	1	6/29/2013 01:00 AM
Benzidine	ND		10	µg/L	1	6/29/2013 01:00 AM
Benzo(a)anthracene	ND		0.10	µg/L	1	6/28/2013 10:39 PM
Benzo(a)pyrene	ND		0.10	µg/L	1	6/28/2013 10:39 PM
Benzo(b)fluoranthene	ND		0.11	µg/L	1	6/28/2013 10:39 PM
Benzo(g,h,i)perylene	ND		0.10	µg/L	1	6/28/2013 10:39 PM
Benzo(k)fluoranthene	ND		0.16	µg/L	1	6/28/2013 10:39 PM
Benzyl alcohol	ND		10	µg/L	1	6/29/2013 01:00 AM
Bis(2-chloroethoxy)methane	ND		10	µg/L	1	6/29/2013 01:00 AM
Bis(2-chloroethyl)ether	ND		10	µg/L	1	6/29/2013 01:00 AM
Bis(2-chloroisopropyl)ether	ND		10	µg/L	1	6/29/2013 01:00 AM
Bis(2-ethylhexyl)phthalate	ND		10	µg/L	1	6/29/2013 01:00 AM
Butyl benzyl phthalate	ND		10	µg/L	1	6/29/2013 01:00 AM
Carbazole	ND		10	µg/L	1	6/28/2013 10:39 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: MW-6-062413

Lab ID: 1306670-02

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Chrysene	ND		0.10	µg/L	1	6/28/2013 10:39 PM
Dibenzo(a,h)anthracene	ND		0.10	µg/L	1	6/28/2013 10:39 PM
Dibenzofuran	ND		10	µg/L	1	6/28/2013 10:39 PM
Diethyl phthalate	ND		10	µg/L	1	6/29/2013 01:00 AM
Dimethyl phthalate	ND		10	µg/L	1	6/29/2013 01:00 AM
Di-n-butyl phthalate	ND		10	µg/L	1	6/29/2013 01:00 AM
Di-n-octyl phthalate	ND		10	µg/L	1	6/29/2013 01:00 AM
Dinoseb	ND		21	µg/L	1	6/29/2013 01:00 AM
Diphenylamine	ND		10	µg/L	1	6/29/2013 01:00 AM
Ethyl methanesulfonate	ND		10	µg/L	1	6/29/2013 01:00 AM
Fluoranthene	ND		0.10	µg/L	1	6/28/2013 10:39 PM
Fluorene	ND		0.10	µg/L	1	6/28/2013 10:39 PM
Hexachlorobenzene	ND		10	µg/L	1	6/29/2013 01:00 AM
Hexachlorobutadiene	ND		10	µg/L	1	6/29/2013 01:00 AM
Hexachlorocyclopentadiene	ND		10	µg/L	1	6/29/2013 01:00 AM
Hexachloroethane	ND		10	µg/L	1	6/29/2013 01:00 AM
Indeno(1,2,3-cd)pyrene	ND		0.10	µg/L	1	6/28/2013 10:39 PM
Isophorone	ND		10	µg/L	1	6/29/2013 01:00 AM
Isosafrole	ND		10	µg/L	1	6/29/2013 01:00 AM
Methapyrilene	ND		10	µg/L	1	6/29/2013 01:00 AM
Methyl methanesulfonate	ND		10	µg/L	1	6/29/2013 01:00 AM
Naphthalene	ND		0.10	µg/L	1	6/28/2013 10:39 PM
Nitrobenzene	ND		10	µg/L	1	6/29/2013 01:00 AM
N-Nitrosodiethylamine	ND		10	µg/L	1	6/29/2013 01:00 AM
N-Nitrosodimethylamine	ND		10	µg/L	1	6/29/2013 01:00 AM
N-Nitroso-di-n-butylamine	ND		10	µg/L	1	6/29/2013 01:00 AM
N-Nitrosodi-n-propylamine	ND		10	µg/L	1	6/29/2013 01:00 AM
N-Nitrosomethylethylamine	ND		10	µg/L	1	6/29/2013 01:00 AM
N-Nitrosomorpholine	ND		10	µg/L	1	6/29/2013 01:00 AM
N-Nitrosopiperidine	ND		10	µg/L	1	6/29/2013 01:00 AM
N-Nitrosopyrrolidine	ND		10	µg/L	1	6/29/2013 01:00 AM
o-Toluidine	ND		10	µg/L	1	6/29/2013 01:00 AM
p-Dimethylaminoazobenzene	ND		10	µg/L	1	6/29/2013 01:00 AM
Pentachlorobenzene	ND		10	µg/L	1	6/29/2013 01:00 AM
Pentachloroethane	ND		10	µg/L	1	6/29/2013 01:00 AM
Pentachloronitrobenzene	ND		21	µg/L	1	6/29/2013 01:00 AM
Pentachlorophenol	ND		21	µg/L	1	6/29/2013 01:00 AM
Phenacetin	ND		21	µg/L	1	6/29/2013 01:00 AM
Phenanthrene	ND		0.10	µg/L	1	6/28/2013 10:39 PM
Phenol	ND		10	µg/L	1	6/29/2013 01:00 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: MW-6-062413

Lab ID: 1306670-02

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Pyrene	ND		0.10	µg/L	1	6/28/2013 10:39 PM
Pyridine	ND		10	µg/L	1	6/29/2013 01:00 AM
Safrole	ND		10	µg/L	1	6/29/2013 01:00 AM
Surr: 2,4,6-Tribromophenol	85.9		35-120	%REC	1	6/29/2013 01:00 AM
Surr: 2-Fluorobiphenyl	73.5		38-105	%REC	1	6/29/2013 01:00 AM
Surr: 2-Fluorophenol	43.1		12-89	%REC	1	6/29/2013 01:00 AM
Surr: 4-Terphenyl-d14	85.7		42-125	%REC	1	6/29/2013 01:00 AM
Surr: Nitrobenzene-d5	75.3		28-120	%REC	1	6/29/2013 01:00 AM
Surr: Phenol-d5	35.4		10-62	%REC	1	6/29/2013 01:00 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	7/1/2013 06:36 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	7/1/2013 06:36 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	7/1/2013 06:36 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	7/1/2013 06:36 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	7/1/2013 06:36 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	7/1/2013 06:36 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	7/1/2013 06:36 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	7/1/2013 06:36 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	7/1/2013 06:36 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	7/1/2013 06:36 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	7/1/2013 06:36 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	7/1/2013 06:36 PM
2-Butanone	ND		5.0	µg/L	1	7/1/2013 06:36 PM
2-Chlorotoluene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
2-Hexanone	ND		5.0	µg/L	1	7/1/2013 06:36 PM
4-Chlorotoluene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Acetone	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Benzene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Bromobenzene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Bromochloromethane	ND		5.0	µg/L	1	7/1/2013 06:36 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: MW-6-062413

Lab ID: 1306670-02

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Bromodichloromethane	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Bromoform	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Bromomethane	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Carbon disulfide	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Carbon tetrachloride	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Chlorobenzene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Chloroethane	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Chloroform	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Chloromethane	ND		5.0	µg/L	1	7/1/2013 06:36 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Dibromochloromethane	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Dibromomethane	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Ethylbenzene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Isopropylbenzene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
m,p-Xylene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Methylene chloride	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Naphthalene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
n-Butylbenzene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
n-Propylbenzene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
o-Xylene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
sec-Butylbenzene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Styrene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
tert-Butylbenzene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Tetrachloroethene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Toluene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Trichloroethene	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	7/1/2013 06:36 PM
Vinyl chloride	ND		2.0	µg/L	1	7/1/2013 06:36 PM
Xylenes, Total	ND		5.0	µg/L	1	7/1/2013 06:36 PM
<i>Surr: 4-Bromofluorobenzene</i>	94.3		61-131	%REC	1	7/1/2013 06:36 PM
<i>Surr: Dibromofluoromethane</i>	97.8		87-126	%REC	1	7/1/2013 06:36 PM
<i>Surr: Toluene-d8</i>	100		84-111	%REC	1	7/1/2013 06:36 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: EB-062413

Lab ID: 1306670-04

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/25/2013	Analyst: SAD
4,4'-DDD	ND		0.041	µg/L	1	6/26/2013
4,4'-DDE	ND		0.041	µg/L	1	6/26/2013
4,4'-DDT	ND		0.041	µg/L	1	6/26/2013
Aldrin	ND		0.020	µg/L	1	6/26/2013
alpha-BHC	ND		0.020	µg/L	1	6/26/2013
beta-BHC	ND		0.020	µg/L	1	6/26/2013
Chlordane	ND		1.0	µg/L	1	6/26/2013
delta-BHC	ND		0.020	µg/L	1	6/26/2013
Dieldrin	ND		0.041	µg/L	1	6/26/2013
Endosulfan I	ND		0.020	µg/L	1	6/26/2013
Endosulfan II	ND		0.041	µg/L	1	6/26/2013
Endosulfan sulfate	ND		0.041	µg/L	1	6/26/2013
Endrin	ND		0.041	µg/L	1	6/26/2013
Endrin aldehyde	ND		0.041	µg/L	1	6/26/2013
Endrin ketone	ND		0.041	µg/L	1	6/26/2013
gamma-BHC (Lindane)	ND		0.020	µg/L	1	6/26/2013
Heptachlor	ND		0.020	µg/L	1	6/26/2013
Heptachlor epoxide	ND		0.020	µg/L	1	6/26/2013
Methoxychlor	ND		0.20	µg/L	1	6/26/2013
Toxaphene	ND		5.1	µg/L	1	6/26/2013
<i>Surr: Decachlorobiphenyl</i>	52.6		11-146	%REC	1	6/26/2013
<i>Surr: Tetrachloro-m-xylene</i>	89.4		35-132	%REC	1	6/26/2013
PCBS			SW8082		Prep Date: 6/25/2013	Analyst: SAD
Aroclor 1016	ND		0.51	µg/L	1	6/27/2013
Aroclor 1221	ND		0.51	µg/L	1	6/27/2013
Aroclor 1232	ND		0.51	µg/L	1	6/27/2013
Aroclor 1242	ND		0.51	µg/L	1	6/27/2013
Aroclor 1248	ND		0.51	µg/L	1	6/27/2013
Aroclor 1254	ND		0.51	µg/L	1	6/27/2013
Aroclor 1260	ND		0.51	µg/L	1	6/27/2013
<i>Surr: Decachlorobiphenyl</i>	58.8		37-108	%REC	1	6/27/2013
<i>Surr: Tetrachloro-m-xylene</i>	105		9-136	%REC	1	6/27/2013
MERCURY BY CVAA			SW7470A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	6/27/2013 02:55 PM
METALS BY ICP			SW6010B		Prep Date: 6/26/2013	Analyst: VAW
Aluminum	ND		0.20	mg/L	1	6/26/2013 05:46 PM
Antimony	ND		0.0060	mg/L	1	6/26/2013 05:46 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: EB-062413

Lab ID: 1306670-04

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Arsenic	ND		0.010	mg/L	1	6/26/2013 05:46 PM
Barium	ND		0.10	mg/L	1	6/26/2013 05:46 PM
Beryllium	ND		0.0040	mg/L	1	6/26/2013 05:46 PM
Cadmium	ND		0.0050	mg/L	1	6/26/2013 05:46 PM
Calcium	ND		0.20	mg/L	1	6/26/2013 05:46 PM
Chromium	ND		0.020	mg/L	1	6/26/2013 05:46 PM
Cobalt	ND		0.050	mg/L	1	6/26/2013 05:46 PM
Copper	ND		0.025	mg/L	1	6/26/2013 05:46 PM
Iron	ND		0.20	mg/L	1	6/26/2013 05:46 PM
Lead	ND		0.015	mg/L	1	6/26/2013 05:46 PM
Magnesium	ND		0.20	mg/L	1	6/26/2013 05:46 PM
Manganese	ND		0.050	mg/L	1	6/26/2013 05:46 PM
Nickel	ND		0.040	mg/L	1	6/26/2013 05:46 PM
Potassium	ND		0.20	mg/L	1	6/26/2013 05:46 PM
Selenium	ND		0.030	mg/L	1	6/26/2013 05:46 PM
Silver	ND		0.010	mg/L	1	6/26/2013 05:46 PM
Sodium	ND		0.20	mg/L	1	6/26/2013 05:46 PM
Thallium	ND		0.0020	mg/L	1	6/26/2013 05:46 PM
Vanadium	ND		0.050	mg/L	1	6/26/2013 05:46 PM
Zinc	ND		0.050	mg/L	1	6/26/2013 05:46 PM

HERBICIDES

SW8151

Prep Date: **6/26/2013**

Analyst: **Microb**

2,4,5-T	ND		0.20	µg/L	1	7/2/2013 03:37 AM
2,4,5-TP (Silvex)	ND		0.20	µg/L	1	7/2/2013 03:37 AM
2,4-D	ND		2.0	µg/L	1	7/2/2013 03:37 AM
2,4-DB	ND		2.0	µg/L	1	7/2/2013 03:37 AM
Dalapon	ND		5.0	µg/L	1	7/2/2013 03:37 AM
Dicamba	ND		0.20	µg/L	1	7/2/2013 03:37 AM
Dichlorprop	ND		2.0	µg/L	1	7/2/2013 03:37 AM
Dinoseb	ND		1.0	µg/L	1	7/2/2013 03:37 AM
MCPA	ND		250	µg/L	1	7/2/2013 03:37 AM
MCPP	ND		250	µg/L	1	7/2/2013 03:37 AM
Pentachlorophenol	ND		0.20	µg/L	1	7/2/2013 03:37 AM
Surr: 2,4-Dichlorophenylacetic acid	114		20-144	%REC	1	7/2/2013 03:37 AM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: **6/27/2013**

Analyst: **JCL**

1,2,4,5-Tetrachlorobenzene	ND		10	µg/L	1	6/29/2013 02:09 AM
1,2,4-Trichlorobenzene	ND		10	µg/L	1	6/29/2013 02:09 AM
1,2-Dichlorobenzene	ND		10	µg/L	1	6/29/2013 02:09 AM
1,3-Dichlorobenzene	ND		10	µg/L	1	6/29/2013 02:09 AM
1,3-Dinitrobenzene	ND		10	µg/L	1	6/29/2013 02:09 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: EB-062413

Lab ID: 1306670-04

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dichlorobenzene	ND		10	µg/L	1	6/29/2013 02:09 AM
1-Methylnaphthalene	ND		0.10	µg/L	1	6/28/2013 11:41 PM
1-Naphthylamine	ND		10	µg/L	1	6/29/2013 02:09 AM
2,3,4,6-Tetrachlorophenol	ND		10	µg/L	1	6/29/2013 02:09 AM
2,4,5-Trichlorophenol	ND		10	µg/L	1	6/29/2013 02:09 AM
2,4,6-Trichlorophenol	ND		10	µg/L	1	6/29/2013 02:09 AM
2,4-Dichlorophenol	ND		10	µg/L	1	6/29/2013 02:09 AM
2,4-Dimethylphenol	ND		10	µg/L	1	6/29/2013 02:09 AM
2,4-Dinitrophenol	ND		10	µg/L	1	6/29/2013 02:09 AM
2,4-Dinitrotoluene	ND		10	µg/L	1	6/29/2013 02:09 AM
2,6-Dichlorophenol	ND		10	µg/L	1	6/29/2013 02:09 AM
2,6-Dinitrotoluene	ND		10	µg/L	1	6/29/2013 02:09 AM
2-Acetylaminofluorene	ND		10	µg/L	1	6/29/2013 02:09 AM
2-Chloronaphthalene	ND		10	µg/L	1	6/29/2013 02:09 AM
2-Chlorophenol	ND		10	µg/L	1	6/29/2013 02:09 AM
2-Methylnaphthalene	ND		0.10	µg/L	1	6/28/2013 11:41 PM
2-Methylphenol	ND		10	µg/L	1	6/29/2013 02:09 AM
2-Naphthylamine	ND		20	µg/L	1	6/29/2013 02:09 AM
2-Nitroaniline	ND		10	µg/L	1	6/29/2013 02:09 AM
2-Nitrophenol	ND		10	µg/L	1	6/29/2013 02:09 AM
2-Picoline	ND		20	µg/L	1	6/29/2013 02:09 AM
3&4-Methylphenol	ND		10	µg/L	1	6/29/2013 02:09 AM
3,3'-Dichlorobenzidine	ND		10	µg/L	1	6/29/2013 02:09 AM
3-Methylcholanthrene	ND		20	µg/L	1	6/29/2013 02:09 AM
3-Nitroaniline	ND		20	µg/L	1	6/29/2013 02:09 AM
4,6-Dinitro-2-methylphenol	ND		20	µg/L	1	6/29/2013 02:09 AM
4-Aminobiphenyl	ND		10	µg/L	1	6/29/2013 02:09 AM
4-Bromophenyl phenyl ether	ND		20	µg/L	1	6/29/2013 02:09 AM
4-Chloro-3-methylphenol	ND		20	µg/L	1	6/29/2013 02:09 AM
4-Chloroaniline	ND		10	µg/L	1	6/29/2013 02:09 AM
4-Chlorophenyl phenyl ether	ND		20	µg/L	1	6/29/2013 02:09 AM
4-Nitroaniline	ND		20	µg/L	1	6/29/2013 02:09 AM
4-Nitrophenol	ND		10	µg/L	1	6/29/2013 02:09 AM
4-Nitroquinoline 1-oxide	ND		10	µg/L	1	6/29/2013 02:09 AM
5-Nitro-o-toluidine	ND		10	µg/L	1	6/29/2013 02:09 AM
7,12-Dimethylbenz(a)anthracene	ND		10	µg/L	1	6/29/2013 02:09 AM
Acenaphthene	ND		0.10	µg/L	1	6/28/2013 11:41 PM
Acenaphthylene	ND		0.10	µg/L	1	6/28/2013 11:41 PM
Acetophenone	ND		10	µg/L	1	6/29/2013 02:09 AM
Aniline	ND		10	µg/L	1	6/29/2013 02:09 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: EB-062413

Lab ID: 1306670-04

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	ND		0.10	µg/L	1	6/28/2013 11:41 PM
Azobenzene	ND		10	µg/L	1	6/29/2013 02:09 AM
Benzidine	ND		10	µg/L	1	6/29/2013 02:09 AM
Benzo(a)anthracene	ND		0.10	µg/L	1	6/28/2013 11:41 PM
Benzo(a)pyrene	ND		0.10	µg/L	1	6/28/2013 11:41 PM
Benzo(b)fluoranthene	ND		0.11	µg/L	1	6/28/2013 11:41 PM
Benzo(g,h,i)perylene	ND		0.10	µg/L	1	6/28/2013 11:41 PM
Benzo(k)fluoranthene	ND		0.16	µg/L	1	6/28/2013 11:41 PM
Benzyl alcohol	ND		10	µg/L	1	6/29/2013 02:09 AM
Bis(2-chloroethoxy)methane	ND		10	µg/L	1	6/29/2013 02:09 AM
Bis(2-chloroethyl)ether	ND		10	µg/L	1	6/29/2013 02:09 AM
Bis(2-chloroisopropyl)ether	ND		10	µg/L	1	6/29/2013 02:09 AM
Bis(2-ethylhexyl)phthalate	ND		10	µg/L	1	6/29/2013 02:09 AM
Butyl benzyl phthalate	ND		10	µg/L	1	6/29/2013 02:09 AM
Carbazole	ND		10	µg/L	1	6/28/2013 11:41 PM
Chrysene	ND		0.10	µg/L	1	6/28/2013 11:41 PM
Dibenzo(a,h)anthracene	ND		0.10	µg/L	1	6/28/2013 11:41 PM
Dibenzofuran	ND		10	µg/L	1	6/28/2013 11:41 PM
Diethyl phthalate	ND		10	µg/L	1	6/29/2013 02:09 AM
Dimethyl phthalate	ND		10	µg/L	1	6/29/2013 02:09 AM
Di-n-butyl phthalate	ND		10	µg/L	1	6/29/2013 02:09 AM
Di-n-octyl phthalate	ND		10	µg/L	1	6/29/2013 02:09 AM
Dinoseb	ND		20	µg/L	1	6/29/2013 02:09 AM
Diphenylamine	ND		10	µg/L	1	6/29/2013 02:09 AM
Ethyl methanesulfonate	ND		10	µg/L	1	6/29/2013 02:09 AM
Fluoranthene	ND		0.10	µg/L	1	6/28/2013 11:41 PM
Fluorene	ND		0.10	µg/L	1	6/28/2013 11:41 PM
Hexachlorobenzene	ND		10	µg/L	1	6/29/2013 02:09 AM
Hexachlorobutadiene	ND		10	µg/L	1	6/29/2013 02:09 AM
Hexachlorocyclopentadiene	ND		10	µg/L	1	6/29/2013 02:09 AM
Hexachloroethane	ND		10	µg/L	1	6/29/2013 02:09 AM
Indeno(1,2,3-cd)pyrene	ND		0.10	µg/L	1	6/28/2013 11:41 PM
Isophorone	ND		10	µg/L	1	6/29/2013 02:09 AM
Isosafrole	ND		10	µg/L	1	6/29/2013 02:09 AM
Methapyrilene	ND		10	µg/L	1	6/29/2013 02:09 AM
Methyl methanesulfonate	ND		10	µg/L	1	6/29/2013 02:09 AM
Naphthalene	0.17		0.10	µg/L	1	6/28/2013 11:41 PM
Nitrobenzene	ND		10	µg/L	1	6/29/2013 02:09 AM
N-Nitrosodiethylamine	ND		10	µg/L	1	6/29/2013 02:09 AM
N-Nitrosodimethylamine	ND		10	µg/L	1	6/29/2013 02:09 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: EB-062413

Lab ID: 1306670-04

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
N-Nitroso-di-n-butylamine	ND		10	µg/L	1	6/29/2013 02:09 AM
N-Nitrosodi-n-propylamine	ND		10	µg/L	1	6/29/2013 02:09 AM
N-Nitrosomethylethylamine	ND		10	µg/L	1	6/29/2013 02:09 AM
N-Nitrosomorpholine	ND		10	µg/L	1	6/29/2013 02:09 AM
N-Nitrosopiperidine	ND		10	µg/L	1	6/29/2013 02:09 AM
N-Nitrosopyrrolidine	ND		10	µg/L	1	6/29/2013 02:09 AM
o-Toluidine	ND		10	µg/L	1	6/29/2013 02:09 AM
p-Dimethylaminoazobenzene	ND		10	µg/L	1	6/29/2013 02:09 AM
Pentachlorobenzene	ND		10	µg/L	1	6/29/2013 02:09 AM
Pentachloroethane	ND		10	µg/L	1	6/29/2013 02:09 AM
Pentachloronitrobenzene	ND		20	µg/L	1	6/29/2013 02:09 AM
Pentachlorophenol	ND		20	µg/L	1	6/29/2013 02:09 AM
Phenacetin	ND		20	µg/L	1	6/29/2013 02:09 AM
Phenanthrene	ND		0.10	µg/L	1	6/28/2013 11:41 PM
Phenol	ND		10	µg/L	1	6/29/2013 02:09 AM
Pyrene	ND		0.10	µg/L	1	6/28/2013 11:41 PM
Pyridine	ND		10	µg/L	1	6/29/2013 02:09 AM
Safrole	ND		10	µg/L	1	6/29/2013 02:09 AM
Surr: 2,4,6-Tribromophenol	75.7		35-120	%REC	1	6/29/2013 02:09 AM
Surr: 2-Fluorobiphenyl	61.9		38-105	%REC	1	6/29/2013 02:09 AM
Surr: 2-Fluorophenol	30.1		12-89	%REC	1	6/29/2013 02:09 AM
Surr: 4-Terphenyl-d14	81.6		42-125	%REC	1	6/29/2013 02:09 AM
Surr: Nitrobenzene-d5	61.5		28-120	%REC	1	6/29/2013 02:09 AM
Surr: Phenol-d5	27.1		10-62	%REC	1	6/29/2013 02:09 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	7/2/2013 12:42 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	7/2/2013 12:42 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	7/2/2013 12:42 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	7/2/2013 12:42 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	7/2/2013 12:42 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	7/2/2013 12:42 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	7/2/2013 12:42 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	7/2/2013 12:42 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	7/2/2013 12:42 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: EB-062413

Lab ID: 1306670-04

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	ND		5.0	µg/L	1	7/2/2013 12:42 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	7/2/2013 12:42 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	7/2/2013 12:42 PM
2-Butanone	ND		5.0	µg/L	1	7/2/2013 12:42 PM
2-Chlorotoluene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
2-Hexanone	ND		5.0	µg/L	1	7/2/2013 12:42 PM
4-Chlorotoluene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Acetone	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Benzene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Bromobenzene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Bromochloromethane	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Bromodichloromethane	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Bromoform	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Bromomethane	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Carbon disulfide	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Carbon tetrachloride	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Chlorobenzene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Chloroethane	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Chloroform	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Chloromethane	ND		5.0	µg/L	1	7/2/2013 12:42 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Dibromochloromethane	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Dibromomethane	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Ethylbenzene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Isopropylbenzene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
m,p-Xylene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Methylene chloride	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Naphthalene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
n-Butylbenzene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
n-Propylbenzene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
o-Xylene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	7/2/2013 12:42 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: EB-062413

Lab ID: 1306670-04

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Styrene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
tert-Butylbenzene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Tetrachloroethene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Toluene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Trichloroethene	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	7/2/2013 12:42 PM
Vinyl chloride	ND		2.0	µg/L	1	7/2/2013 12:42 PM
Xylenes, Total	ND		5.0	µg/L	1	7/2/2013 12:42 PM
<i>Surr: 4-Bromofluorobenzene</i>	95.2		61-131	%REC	1	7/2/2013 12:42 PM
<i>Surr: Dibromofluoromethane</i>	104		87-126	%REC	1	7/2/2013 12:42 PM
<i>Surr: Toluene-d8</i>	97.5		84-111	%REC	1	7/2/2013 12:42 PM

Note:

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17369** Instrument ID **GC9** Method: **SW8082**

MBLK		Sample ID MBLK-17369-17369			Units: µg/L		Analysis Date: 6/27/2013			
Client ID:		Run ID: GC9_130627C			SeqNo: 637459		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.50								
Aroclor 1221	ND	0.50								
Aroclor 1232	ND	0.50								
Aroclor 1242	ND	0.50								
Aroclor 1248	ND	0.50								
Aroclor 1254	ND	0.50								
Aroclor 1260	ND	0.50								
<i>Surr: Decachlorobiphenyl</i>	0.339	0	0.5	0	67.8	37-108	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.5	0	0.5	0	100	9-136	0			

LCS		Sample ID LCS-17369-17369			Units: µg/L		Analysis Date: 6/27/2013			
Client ID:		Run ID: GC9_130627C			SeqNo: 637460		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	9.402	0.50	10	0	94	61-122	0			
<i>Surr: Decachlorobiphenyl</i>	0.343	0	0.5	0	68.6	37-108	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.501	0	0.5	0	100	9-136	0			

MS		Sample ID 1306628-06GMS			Units: µg/L		Analysis Date: 6/27/2013			
Client ID:		Run ID: GC9_130627C			SeqNo: 637466		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	10.8	0.52	10.36	0	104		0			
<i>Surr: Decachlorobiphenyl</i>	0.4052	0	0.5181	0	78.2		0			
<i>Surr: Tetrachloro-m-xylene</i>	0.5534	0	0.5181	0	107		0			

MSD		Sample ID 1306628-06GMSD			Units: µg/L		Analysis Date: 6/27/2013			
Client ID:		Run ID: GC9_130627C			SeqNo: 637467		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	10.52	0.51	10.1	0	104		10.8	2.66		
<i>Surr: Decachlorobiphenyl</i>	0.4172	0	0.5051	0	82.6		0.4052	2.92		
<i>Surr: Tetrachloro-m-xylene</i>	0.5505	0	0.5051	0	109		0.5534	0.519		

The following samples were analyzed in this batch: 1306670-02B 1306670-04B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17376 Instrument ID GC9 Method: SW8081A

MBLK		Sample ID MBLK-17376-17376			Units: µg/L		Analysis Date: 6/26/2013			
Client ID:		Run ID: GC9_130626B			SeqNo: 636702		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	0.040								
4,4'-DDE	ND	0.040								
4,4'-DDT	ND	0.040								
Aldrin	ND	0.020								
alpha-BHC	ND	0.020								
beta-BHC	ND	0.020								
Chlordane	ND	1.0								
delta-BHC	ND	0.020								
Dieldrin	ND	0.040								
Endosulfan I	ND	0.020								
Endosulfan II	ND	0.040								
Endosulfan sulfate	ND	0.040								
Endrin	ND	0.040								
Endrin aldehyde	ND	0.040								
Endrin ketone	ND	0.040								
gamma-BHC (Lindane)	ND	0.020								
Heptachlor	ND	0.020								
Heptachlor epoxide	ND	0.020								
Methoxychlor	ND	0.20								
Toxaphene	ND	5.0								
<i>Surr: Decachlorobiphenyl</i>	0.343	0	0.5	0	68.6	11-146	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.467	0	0.5	0	93.4	35-132	0			

LCS		Sample ID LCS-17376-17376			Units: µg/L		Analysis Date: 6/26/2013			
Client ID:		Run ID: GC9_130626B			SeqNo: 636703		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDT	0.181	0.040	0.2	0	90.5	25-163	0			
Aldrin	0.099	0.020	0.1	0	99	29-148	0			
Dieldrin	0.221	0.040	0.2	0	110	36-148	0			
Endrin	0.253	0.040	0.2	0	126	27-168	0			
gamma-BHC (Lindane)	0.076	0.020	0.1	0	76	20-139	0			
Heptachlor	0.11	0.020	0.1	0	110	30-149	0			
<i>Surr: Decachlorobiphenyl</i>	0.489	0	0.5	0	97.8	51-130	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.546	0	0.5	0	109	44-129	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17376 Instrument ID GC9 Method: SW8081A

MS		Sample ID 1306628-06FMS			Units: µg/L		Analysis Date: 6/26/2013			
Client ID:		Run ID: GC9_130626B			SeqNo: 636709		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDT	0.1421	0.041	0.203	0	70	25-163	0			
Aldrin	0.07919	0.020	0.1015	0	78	29-148	0			
Dieldrin	0.1817	0.041	0.203	0	89.5	36-148	0			
Endrin	0.2173	0.041	0.203	0	107	27-168	0			
gamma-BHC (Lindane)	0.06802	0.020	0.1015	0	67	20-139	0			
Heptachlor	0.09036	0.020	0.1015	0	89	30-149	0			
Surr: Decachlorobiphenyl	0.2985	0	0.5076	0	58.8	51-130	0			
Surr: Tetrachloro-m-xylene	0.4274	0	0.5076	0	84.2	44-129	0			

MSD		Sample ID 1306628-06FMSD			Units: µg/L		Analysis Date: 6/26/2013			
Client ID:		Run ID: GC9_130626B			SeqNo: 636710		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDT	0.126	0.042	0.2083	0	60.5	25-163	0.1421	12		
Aldrin	0.07083	0.021	0.1042	0	68	29-148	0.07919	11.1		
Dieldrin	0.1635	0.042	0.2083	0	78.5	36-148	0.1817	10.5		
Endrin	0.1865	0.042	0.2083	0	89.5	27-168	0.2173	15.3		
gamma-BHC (Lindane)	0.05729	0.021	0.1042	0	55	20-139	0.06802	17.1		
Heptachlor	0.07812	0.021	0.1042	0	75	30-149	0.09036	14.5		
Surr: Decachlorobiphenyl	0.2812	0	0.5208	0	54	51-130	0.2985	5.94		
Surr: Tetrachloro-m-xylene	0.3812	0	0.5208	0	73.2	44-129	0.4274	11.4		

The following samples were analyzed in this batch:

1306670-02E	1306670-04E
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Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17406** Instrument ID **HG1** Method: **SW7470A**

MBLK	Sample ID	MBLK-17406-17406				Units:	µg/L					Analysis Date:	6/27/2013 02:28 PM	
Client ID:		Run ID: HG1_130627A				SeqNo:	637118		Prep Date:	6/26/2013		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Mercury ND 0.50

LCS	Sample ID	LCS-17406-17406				Units:	µg/L					Analysis Date:	6/27/2013 02:24 PM	
Client ID:		Run ID: HG1_130627A				SeqNo:	637116		Prep Date:	6/26/2013		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Mercury 4.97 0.50 5 0 99.4 80-120 0

LCSD	Sample ID	LCSD-17406-17406				Units:	µg/L					Analysis Date:	6/27/2013 02:26 PM	
Client ID:		Run ID: HG1_130627A				SeqNo:	637117		Prep Date:	6/26/2013		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Mercury 4.9 0.50 5 0 98 80-120 4.97 1.42 20

MS	Sample ID	1306628-06CMS				Units:	µg/L					Analysis Date:	6/27/2013 02:45 PM	
Client ID:		Run ID: HG1_130627A				SeqNo:	637124		Prep Date:	6/26/2013		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Mercury 5.17 0.50 5 -0.09 105 75-125 0

MSD	Sample ID	1306628-06CMSD				Units:	µg/L					Analysis Date:	6/27/2013 02:47 PM	
Client ID:		Run ID: HG1_130627A				SeqNo:	637125		Prep Date:	6/26/2013		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Mercury 4.97 0.50 5 -0.09 101 75-125 5.17 3.94 20

The following samples were analyzed in this batch: 1306670-02F 1306670-04F

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17407 Instrument ID HG1 Method: SW7470A (Dissolve)

MBLK	Sample ID	MBLK-17407-17407				Units:	µg/L					Analysis Date:	6/27/2013 03:40 PM	
Client ID:		Run ID: HG1_130627B				SeqNo:	637201		Prep Date:	6/26/2013		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Mercury ND 0.50

LCS	Sample ID	LCS-17407-17407				Units:	µg/L					Analysis Date:	6/27/2013 03:36 PM	
Client ID:		Run ID: HG1_130627B				SeqNo:	637199		Prep Date:	6/26/2013		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Mercury 4.88 0.50 5 0 97.6 80-120 0

LCSD	Sample ID	LCSD-17407-17407				Units:	µg/L					Analysis Date:	6/27/2013 03:38 PM	
Client ID:		Run ID: HG1_130627B				SeqNo:	637200		Prep Date:	6/26/2013		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Mercury 4.87 0.50 5 0 97.4 80-120 4.88 0.205 20

MS	Sample ID	1306628-06DMS				Units:	µg/L					Analysis Date:	6/27/2013 03:57 PM	
Client ID:		Run ID: HG1_130627B				SeqNo:	637207		Prep Date:	6/26/2013		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Mercury 5.03 0.50 5 -0.05 102 75-125 0

MSD	Sample ID	1306628-06DMSD				Units:	µg/L					Analysis Date:	6/27/2013 03:59 PM	
Client ID:		Run ID: HG1_130627B				SeqNo:	637208		Prep Date:	6/26/2013		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Mercury 4.98 0.50 5 -0.05 101 75-125 5.03 0.999 20

The following samples were analyzed in this batch:

1306670-02G

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17398** Instrument ID **ICP3** Method: **SW6010B** (Dissolve)

MBLK	Sample ID	mbik-17398-17398		Units: mg/L		Analysis Date: 6/26/2013 03:59 PM				
Client ID:	Run ID:	ICP3_130626B		SeqNo: 636446		Prep Date: 6/26/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.20								
Antimony	ND	0.0060								
Arsenic	ND	0.010								
Barium	ND	0.10								
Beryllium	ND	0.0040								
Cadmium	ND	0.0050								
Calcium	ND	0.20								
Chromium	ND	0.020								
Cobalt	ND	0.050								
Copper	ND	0.025								
Iron	ND	0.20								
Lead	ND	0.015								
Magnesium	ND	0.20								
Manganese	ND	0.050								
Nickel	ND	0.040								
Potassium	ND	0.20								
Selenium	ND	0.030								
Silver	ND	0.010								
Sodium	ND	0.20								
Thallium	ND	0.0050								
Vanadium	ND	0.050								
Zinc	ND	0.050								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17398** Instrument ID **ICP3** Method: **SW6010B** (Dissolve)

LCS		Sample ID ics-17398-17398			Units: mg/L		Analysis Date: 6/26/2013 04:07 PM			
Client ID:		Run ID: ICP3_130626B			SeqNo: 636447		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.112	0.20	1.1	0	101	80-120	0			
Antimony	1.079	0.0060	1.1	0	98.1	80-120	0			
Arsenic	1.115	0.010	1.1	0	101	80-120	0			
Barium	1.162	0.10	1.1	0	106	80-120	0			
Beryllium	1.103	0.0040	1.1	0	100	80-120	0			
Cadmium	1.147	0.0050	1.1	0	104	80-120	0			
Calcium	1.069	0.20	1.1	0	97.1	80-120	0			
Chromium	1.134	0.020	1.1	0	103	80-120	0			
Cobalt	1.094	0.050	1.1	0	99.4	80-120	0			
Copper	1.085	0.025	1.1	0	98.6	80-120	0			
Iron	1.068	0.20	1.1	0	97	80-120	0			
Lead	1.176	0.015	1.1	0	107	80-120	0			
Magnesium	1.113	0.20	1.1	0	101	80-120	0			
Manganese	1.094	0.050	1.1	0	99.4	80-120	0			
Nickel	1.097	0.040	1.1	0	99.7	80-120	0			
Potassium	10.96	0.20	11	0	99.6	80-120	0			
Selenium	1.119	0.030	1.1	0	102	80-120	0			
Silver	1.123	0.010	1.1	0	102	80-120	0			
Sodium	1.085	0.20	1.1	0	98.6	80-120	0			
Thallium	1.095	0.0050	1.1	0	99.6	80-120	0			
Vanadium	1.122	0.050	1.1	0	102	80-120	0			
Zinc	1.103	0.050	1.1	0	100	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17398** Instrument ID **ICP3** Method: **SW6010B** (Dissolve)

LCSD	Sample ID	icstd-17398-17398		Units: mg/L		Analysis Date: 6/26/2013 04:13 PM				
Client ID:	Run ID: ICP3_130626B			SeqNo: 636448		Prep Date: 6/26/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.099	0.20	1.1	0	99.9	80-120	1.112	1.21	20	
Antimony	1.081	0.0060	1.1	0	98.2	80-120	1.079	0.163	20	
Arsenic	1.118	0.010	1.1	0	102	80-120	1.115	0.197	20	
Barium	1.167	0.10	1.1	0	106	80-120	1.162	0.472	20	
Beryllium	1.111	0.0040	1.1	0	101	80-120	1.103	0.695	20	
Cadmium	1.152	0.0050	1.1	0	105	80-120	1.147	0.383	20	
Calcium	1.065	0.20	1.1	0	96.8	80-120	1.069	0.32	20	
Chromium	1.142	0.020	1.1	0	104	80-120	1.134	0.677	20	
Cobalt	1.099	0.050	1.1	0	99.9	80-120	1.094	0.471	20	
Copper	1.089	0.025	1.1	0	99	80-120	1.085	0.395	20	
Iron	1.084	0.20	1.1	0	98.6	80-120	1.068	1.55	20	
Lead	1.178	0.015	1.1	0	107	80-120	1.176	0.187	20	
Magnesium	1.075	0.20	1.1	0	97.8	80-120	1.113	3.47	20	
Manganese	1.097	0.050	1.1	0	99.7	80-120	1.094	0.261	20	
Nickel	1.099	0.040	1.1	0	99.9	80-120	1.097	0.23	20	
Potassium	10.9	0.20	11	0	99.1	80-120	10.96	0.513	20	
Selenium	1.119	0.030	1.1	0	102	80-120	1.119	0	20	
Silver	1.13	0.010	1.1	0	103	80-120	1.123	0.586	20	
Sodium	1.122	0.20	1.1	0	102	80-120	1.085	3.36	20	
Thallium	1.094	0.0050	1.1	0	99.4	80-120	1.095	0.151	20	
Vanadium	1.123	0.050	1.1	0	102	80-120	1.122	0.098	20	
Zinc	1.103	0.050	1.1	0	100	80-120	1.103	0	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17398 Instrument ID ICP3 Method: SW6010B (Dissolve)

MS		Sample ID 1306670-02g ms			Units: mg/L		Analysis Date: 6/26/2013 04:42 PM			
Client ID: MW-6-062413		Run ID: ICP3_130626B			SeqNo: 636450		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.407	0.20	1.1	0.1578	114	75-125	0			
Antimony	1.067	0.0060	1.1	0.003156	96.7	75-125	0			
Arsenic	1.134	0.010	1.1	0.003123	103	75-125	0			
Barium	1.123	0.10	1.1	0.03482	98.9	75-125	0			
Beryllium	1.092	0.0040	1.1	0.0001138	99.3	75-125	0			
Cadmium	1.121	0.0050	1.1	-0.0003154	102	75-125	0			
Calcium	207.1	0.20	1.1	209.9	-250	75-125	0			SO
Chromium	1.08	0.020	1.1	0.001625	98	75-125	0			
Cobalt	1.009	0.050	1.1	0.002196	91.5	75-125	0			
Copper	1.02	0.025	1.1	0.002055	92.6	75-125	0			
Iron	1.615	0.20	1.1	0.5576	96.1	75-125	0			
Lead	1.07	0.015	1.1	0.001137	97.1	75-125	0			
Magnesium	68.94	0.20	1.1	69.12	-17	75-125	0			SO
Manganese	1.458	0.050	1.1	0.4	96.1	75-125	0			
Nickel	1.011	0.040	1.1	0.008847	91.1	75-125	0			
Potassium	15.51	0.20	11	3.743	107	75-125	0			
Selenium	1.123	0.030	1.1	0.005831	102	75-125	0			
Silver	1.074	0.010	1.1	-0.0001319	97.7	75-125	0			
Sodium	65.55	0.20	1.1	62.64	264	75-125	0			SO
Thallium	0.9628	0.0050	1.1	0.003776	87.2	75-125	0			
Vanadium	1.115	0.050	1.1	0.004444	101	75-125	0			
Zinc	1.041	0.050	1.1	0.003645	94.3	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17398 Instrument ID ICP3 Method: SW6010B (Dissolve)

MSD		Sample ID 1306670-02g msd			Units: mg/L		Analysis Date: 6/26/2013 04:49 PM			
Client ID: MW-6-062413		Run ID: ICP3_130626B			SeqNo: 636451		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.368	0.20	1.1	0.1578	110	75-125	1.407	2.77	20	
Antimony	1.06	0.0060	1.1	0.003156	96	75-125	1.067	0.724	20	
Arsenic	1.129	0.010	1.1	0.003123	102	75-125	1.134	0.486	20	
Barium	1.12	0.10	1.1	0.03482	98.6	75-125	1.123	0.294	20	
Beryllium	1.081	0.0040	1.1	0.0001138	98.3	75-125	1.092	1.03	20	
Cadmium	1.115	0.0050	1.1	-0.0003154	101	75-125	1.121	0.492	20	
Calcium	205.7	0.20	1.1	209.9	-380	75-125	207.1	0.693	20	SO
Chromium	1.084	0.020	1.1	0.001625	98.4	75-125	1.08	0.386	20	
Cobalt	1.004	0.050	1.1	0.002196	91.1	75-125	1.009	0.459	20	
Copper	1.019	0.025	1.1	0.002055	92.4	75-125	1.02	0.14	20	
Iron	1.615	0.20	1.1	0.5576	96.1	75-125	1.615	0	20	
Lead	1.067	0.015	1.1	0.001137	96.9	75-125	1.07	0.257	20	
Magnesium	68.68	0.20	1.1	69.12	-40	75-125	68.94	0.368	20	SO
Manganese	1.444	0.050	1.1	0.4	94.9	75-125	1.458	0.91	20	
Nickel	1.009	0.040	1.1	0.008847	90.9	75-125	1.011	0.261	20	
Potassium	15.36	0.20	11	3.743	106	75-125	15.51	0.998	20	
Selenium	1.119	0.030	1.1	0.005831	101	75-125	1.123	0.393	20	
Silver	1.078	0.010	1.1	-0.0001319	98	75-125	1.074	0.348	20	
Sodium	66.1	0.20	1.1	62.64	314	75-125	65.55	0.836	20	SO
Thallium	0.9606	0.0050	1.1	0.003776	87	75-125	0.9628	0.229	20	
Vanadium	1.102	0.050	1.1	0.004444	99.8	75-125	1.115	1.19	20	
Zinc	1.041	0.050	1.1	0.003645	94.3	75-125	1.041	0.0106	20	

The following samples were analyzed in this batch: 1306670-02g

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1306670
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17399** Instrument ID **ICP3** Method: **SW6010B**

MBLK		Sample ID mblk-17399-17399			Units: mg/L		Analysis Date: 6/26/2013 04:56 PM			
Client ID:		Run ID: ICP3_130626B			SeqNo: 636495		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.20								
Antimony	ND	0.0060								
Arsenic	ND	0.010								
Barium	ND	0.10								
Beryllium	ND	0.0040								
Cadmium	ND	0.0050								
Calcium	ND	0.20								
Chromium	ND	0.020								
Cobalt	ND	0.050								
Copper	ND	0.025								
Iron	ND	0.20								
Lead	ND	0.015								
Magnesium	ND	0.20								
Manganese	ND	0.050								
Nickel	ND	0.040								
Potassium	ND	0.20								
Selenium	ND	0.030								
Silver	ND	0.010								
Sodium	ND	0.20								
Thallium	ND	0.0020								
Vanadium	ND	0.050								
Zinc	ND	0.050								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17399 Instrument ID ICP3 Method: SW6010B

LCS		Sample ID Ics-17399-17399			Units: mg/L		Analysis Date: 6/26/2013 05:04 PM			
Client ID:		Run ID: ICP3_130626B			SeqNo: 636496		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.108	0.20	1.1	0	101	80-120	0			
Antimony	1.065	0.0060	1.1	0	96.8	80-120	0			
Arsenic	1.102	0.010	1.1	0	100	80-120	0			
Barium	1.153	0.10	1.1	0	105	80-120	0			
Beryllium	1.077	0.0040	1.1	0	97.9	80-120	0			
Cadmium	1.137	0.0050	1.1	0	103	80-120	0			
Calcium	1.04	0.20	1.1	0	94.6	80-120	0			
Chromium	1.125	0.020	1.1	0	102	80-120	0			
Cobalt	1.087	0.050	1.1	0	98.8	80-120	0			
Copper	1.075	0.025	1.1	0	97.7	80-120	0			
Iron	1.056	0.20	1.1	0	96	80-120	0			
Lead	1.169	0.015	1.1	0	106	80-120	0			
Magnesium	1.076	0.20	1.1	0	97.8	80-120	0			
Manganese	1.069	0.050	1.1	0	97.2	80-120	0			
Nickel	1.085	0.040	1.1	0	98.6	80-120	0			
Potassium	10.76	0.20	11	0	97.9	80-120	0			
Selenium	1.102	0.030	1.1	0	100	80-120	0			
Silver	1.108	0.010	1.1	0	101	80-120	0			
Sodium	1.112	0.20	1.1	0	101	80-120	0			
Thallium	1.081	0.0020	1.1	0	98.2	80-120	0			
Vanadium	1.089	0.050	1.1	0	99	80-120	0			
Zinc	1.095	0.050	1.1	0	99.6	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17399** Instrument ID **ICP3** Method: **SW6010B**

LCSD	Sample ID	icسد-17399-17399		Units: mg/L		Analysis Date: 6/26/2013 05:10 PM				
Client ID:	Run ID: ICP3_130626B			SeqNo: 636497		Prep Date: 6/26/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.067	0.20	1.1	0	97	80-120	1.108	3.72	20	
Antimony	1.068	0.0060	1.1	0	97.1	80-120	1.065	0.31	20	
Arsenic	1.108	0.010	1.1	0	101	80-120	1.102	0.498	20	
Barium	1.156	0.10	1.1	0	105	80-120	1.153	0.286	20	
Beryllium	1.072	0.0040	1.1	0	97.4	80-120	1.077	0.471	20	
Cadmium	1.142	0.0050	1.1	0	104	80-120	1.137	0.386	20	
Calcium	1.038	0.20	1.1	0	94.4	80-120	1.04	0.212	20	
Chromium	1.126	0.020	1.1	0	102	80-120	1.125	0.0977	20	
Cobalt	1.092	0.050	1.1	0	99.2	80-120	1.087	0.394	20	
Copper	1.078	0.025	1.1	0	98	80-120	1.075	0.317	20	
Iron	1.035	0.20	1.1	0	94.1	80-120	1.056	1.97	20	
Lead	1.174	0.015	1.1	0	107	80-120	1.169	0.376	20	
Magnesium	1.088	0.20	1.1	0	98.9	80-120	1.076	1.11	20	
Manganese	1.065	0.050	1.1	0	96.8	80-120	1.069	0.35	20	
Nickel	1.087	0.040	1.1	0	98.9	80-120	1.085	0.243	20	
Potassium	10.73	0.20	11	0	97.6	80-120	10.76	0.276	20	
Selenium	1.113	0.030	1.1	0	101	80-120	1.102	0.993	20	
Silver	1.111	0.010	1.1	0	101	80-120	1.108	0.297	20	
Sodium	1.125	0.20	1.1	0	102	80-120	1.112	1.18	20	
Thallium	1.086	0.0020	1.1	0	98.7	80-120	1.081	0.467	20	
Vanadium	1.094	0.050	1.1	0	99.4	80-120	1.089	0.403	20	
Zinc	1.098	0.050	1.1	0	99.9	80-120	1.095	0.291	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17399 Instrument ID ICP3 Method: SW6010B

MS		Sample ID 1306670-02f ms			Units: mg/L		Analysis Date: 6/26/2013 05:25 PM			
Client ID: MW-6-062413		Run ID: ICP3_130626B			SeqNo: 636499		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.27	0.20	1.1	0.167	100	75-125	0			
Antimony	1.066	0.0060	1.1	-0.002765	97.1	75-125	0			
Arsenic	1.138	0.010	1.1	0.003134	103	75-125	0			
Barium	1.125	0.10	1.1	0.03193	99.4	75-125	0			
Beryllium	1.081	0.0040	1.1	0.0001587	98.3	75-125	0			
Cadmium	1.121	0.0050	1.1	-9.041E-05	102	75-125	0			
Calcium	205	0.20	1.1	207.7	-240	75-125	0			SO
Chromium	1.078	0.020	1.1	0.002884	97.7	75-125	0			
Cobalt	1.009	0.050	1.1	0.002428	91.5	75-125	0			
Copper	1.021	0.025	1.1	0.002164	92.6	75-125	0			
Iron	2.044	0.20	1.1	1.023	92.8	75-125	0			
Lead	1.074	0.015	1.1	0.001651	97.5	75-125	0			
Magnesium	68.63	0.20	1.1	69.08	-41	75-125	0			SO
Manganese	1.455	0.050	1.1	0.4048	95.5	75-125	0			
Nickel	1.012	0.040	1.1	0.006364	91.4	75-125	0			
Potassium	15.29	0.20	11	4.006	103	75-125	0			
Selenium	1.136	0.030	1.1	0.007647	103	75-125	0			
Silver	1.078	0.010	1.1	0.0001351	98	75-125	0			
Sodium	64.46	0.20	1.1	64.33	12	75-125	0			SO
Thallium	0.9689	0.0020	1.1	0.001804	87.9	75-125	0			
Vanadium	1.11	0.050	1.1	0.006274	100	75-125	0			
Zinc	1.052	0.050	1.1	0.01038	94.7	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17399 Instrument ID ICP3 Method: SW6010B

MSD		Sample ID 1306670-02f msd			Units: mg/L		Analysis Date: 6/26/2013 05:32 PM			
Client ID: MW-6-062413		Run ID: ICP3_130626B			SeqNo: 636500		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.284	0.20	1.1	0.167	102	75-125	1.27	1.03	20	
Antimony	1.052	0.0060	1.1	-0.002765	95.9	75-125	1.066	1.26	20	
Arsenic	1.123	0.010	1.1	0.003134	102	75-125	1.138	1.36	20	
Barium	1.113	0.10	1.1	0.03193	98.3	75-125	1.125	1.08	20	
Beryllium	1.07	0.0040	1.1	0.0001587	97.3	75-125	1.081	0.992	20	
Cadmium	1.108	0.0050	1.1	-9.041E-05	101	75-125	1.121	1.18	20	
Calcium	202.2	0.20	1.1	207.7	-500	75-125	205	1.4	20	SO
Chromium	1.072	0.020	1.1	0.002884	97.2	75-125	1.078	0.522	20	
Cobalt	0.9979	0.050	1.1	0.002428	90.5	75-125	1.009	1.12	20	
Copper	1.011	0.025	1.1	0.002164	91.8	75-125	1.021	0.931	20	
Iron	2.006	0.20	1.1	1.023	89.4	75-125	2.044	1.85	20	
Lead	1.062	0.015	1.1	0.001651	96.4	75-125	1.074	1.13	20	
Magnesium	67.99	0.20	1.1	69.08	-99	75-125	68.63	0.934	20	SO
Manganese	1.439	0.050	1.1	0.4048	94	75-125	1.455	1.14	20	
Nickel	1.004	0.040	1.1	0.006364	90.7	75-125	1.012	0.753	20	
Potassium	15.16	0.20	11	4.006	101	75-125	15.29	0.867	20	
Selenium	1.116	0.030	1.1	0.007647	101	75-125	1.136	1.76	20	
Silver	1.067	0.010	1.1	0.0001351	97	75-125	1.078	1	20	
Sodium	63.62	0.20	1.1	64.33	-64	75-125	64.46	1.31	20	SO
Thallium	0.9646	0.0020	1.1	0.001804	87.5	75-125	0.9689	0.444	20	
Vanadium	1.099	0.050	1.1	0.006274	99.3	75-125	1.11	1.01	20	
Zinc	1.048	0.050	1.1	0.01038	94.3	75-125	1.052	0.388	20	

The following samples were analyzed in this batch:

1306670-02f	1306670-04f
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100365** Instrument ID **SUB** Method: **SW8151**

MBLK		Sample ID MB-R100365-R100365			Units: $\mu\text{g/L}$		Analysis Date: 7/1/2013 05:40 PM			
Client ID:		Run ID: SUB_130701C			SeqNo: 641164		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	ND	0.20								
2,4,5-TP (Silvex)	ND	0.20								
2,4-D	ND	2.0								
2,4-DB	ND	2.0								
Dalapon	ND	5.0								
Dicamba	ND	0.20								
Dichlorprop	ND	2.0								
Dinoseb	ND	1.0								
MCPA	ND	250								
MCPP	ND	250								
Pentachlorophenol	ND	0.20								
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	120	0	100	0	120	20-144	0			

LCS		Sample ID LCS-R100365-R100365			Units: $\mu\text{g/L}$		Analysis Date: 7/1/2013 06:06 PM			
Client ID:		Run ID: SUB_130701C			SeqNo: 641165		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	0.535	0.20	0.5	0	107	30-110	0			
2,4,5-TP (Silvex)	0.484	0.20	0.5	0	96.8	30-110	0			
2,4-D	4.58	2.0	5	0	91.6	30-100	0			
2,4-DB	4.75	2.0	5	0	95	30-110	0			
Dalapon	ND	5.0	12.5	0	30.5	10-100	0			
Dicamba	0.497	0.20	0.5	0	99.4	30-135	0			
Dichlorprop	5.9	2.0	5	0	118	25-115	0			S
Dinoseb	2.34	1.0	2.5	0	93.6	30-105	0			
MCPA	406	250	500	0	81.2	25-100	0			
MCPP	427	250	500	0	85.4	30-120	0			
Pentachlorophenol	0.391	0.20	0.5	0	78.2	30-105	0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	147	0	100	0	147	20-144	0			S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100365** Instrument ID **SUB** Method: **SW8151**

MS		Sample ID 1306628-06EMS			Units: µg/L		Analysis Date: 7/2/2013 01:02 AM			
Client ID:		Run ID: SUB_130701C			SeqNo: 641171		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	0.509	0.20	0.5	0	102	50-150	0			
2,4,5-TP (Silvex)	0.453	0.20	0.5	0	90.6	50-150	0			
2,4-D	4.17	2.0	5	0	83.4	50-150	0			
2,4-DB	4.45	2.0	5	0	89		0			
Dalapon	ND	5.0	12.5	0	27.1		0			
Dicamba	0.441	0.20	0.5	0	88.2		0			
Dichlorprop	5.36	2.0	5	0	107		0			
Dinoseb	2.09	1.0	2.5	0	83.6		0			
MCPA	370	250	500	0	74		0			
MCPP	393	250	500	0	78.6		0			
Pentachlorophenol	0.321	0.20	0.5	0	64.2		0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	124	0	100	0	124	20-144	0			

MSD		Sample ID 1306628-06EMSD			Units: µg/L		Analysis Date: 7/2/2013 01:28 AM			
Client ID:		Run ID: SUB_130701C			SeqNo: 641172		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	0.686	0.20	0.5	0	137	50-150	0.509	29.6		
2,4,5-TP (Silvex)	0.639	0.20	0.5	0	128	50-150	0.453	34.1		
2,4-D	5.57	2.0	5	0	111	50-150	4.17	28.7		
2,4-DB	5.7	2.0	5	0	114		4.45	24.6		
Dalapon	ND	5.0	12.5	0	24.3		3.39	0		
Dicamba	0.588	0.20	0.5	0	118		0.441	28.6		
Dichlorprop	7.32	2.0	5	0	146		5.36	30.9		
Dinoseb	2.82	1.0	2.5	0	113		2.09	29.7		
MCPA	553	250	500	0	111		370	39.7		
MCPP	568	250	500	0	114		393	36.4		
Pentachlorophenol	0.459	0.20	0.5	0	91.8		0.321	35.4		
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	164	0	100	0	164	20-144	124	27.8		S

The following samples were analyzed in this batch:

1306670-02D	1306670-04D
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1306670
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17423** Instrument ID **SVMS3** Method: **SW8270C**

MBLK		Sample ID mblk-17423-17423		Units: $\mu\text{g/L}$		Analysis Date: 6/28/2013 10:09 PM				
Client ID:		Run ID: SVMS3_130628A		SeqNo: 639076		Prep Date: 6/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.10								
Acenaphthene	ND	0.10								
Acenaphthylene	ND	0.10								
Anthracene	ND	0.10								
Benzo(a)anthracene	ND	0.10								
Benzo(a)pyrene	ND	0.10								
Benzo(b)fluoranthene	ND	0.11								
Benzo(g,h,i)perylene	ND	0.10								
Benzo(k)fluoranthene	ND	0.16								
Carbazole	ND	10								
Chrysene	ND	0.10								
Dibenzo(a,h)anthracene	ND	0.10								
Dibenzofuran	ND	10								
Fluoranthene	ND	0.10								
Fluorene	ND	0.10								
Indeno(1,2,3-cd)pyrene	ND	0.10								
Naphthalene	ND	0.10								
Phenanthrene	ND	0.10								
Pyrene	ND	0.10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17423 Instrument ID SVMS3 Method: SW8270C

MBLK	Sample ID	mbk-17423-17423		Units: µg/L		Analysis Date: 6/28/2013 06:35 PM				
Client ID:	Run ID:	SVMS2_130628A		SeqNo: 639124		Prep Date: 6/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	10								
1,2,4-Trichlorobenzene	ND	10								
1,2-Dichlorobenzene	ND	10								
1,3-Dichlorobenzene	ND	10								
1,3-Dinitrobenzene	ND	10								
1,4-Dichlorobenzene	ND	10								
1-Naphthylamine	ND	10								
2,3,4,6-Tetrachlorophenol	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
2,4-Dichlorophenol	ND	10								
2,4-Dimethylphenol	ND	10								
2,4-Dinitrophenol	ND	10								
2,4-Dinitrotoluene	ND	10								
2,6-Dichlorophenol	ND	10								
2,6-Dinitrotoluene	ND	10								
2-Acetylaminofluorene	ND	10								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	10								
2-Methylphenol	ND	10								
2-Naphthylamine	ND	20								
2-Nitroaniline	ND	10								
2-Nitrophenol	ND	10								
2-Picoline	ND	20								
3&4-Methylphenol	ND	10								
3,3'-Dichlorobenzidine	ND	10								
3-Methylcholanthrene	ND	20								
3-Nitroaniline	ND	20								
4,6-Dinitro-2-methylphenol	ND	20								
4-Aminobiphenyl	ND	10								
4-Bromophenyl phenyl ether	ND	20								
4-Chloro-3-methylphenol	ND	20								
4-Chloroaniline	ND	10								
4-Chlorophenyl phenyl ether	ND	20								
4-Nitroaniline	ND	20								
4-Nitrophenol	ND	10								
4-Nitroquinoline 1-oxide	ND	10								
5-Nitro-o-toluidine	ND	10								
7,12-Dimethylbenz(a)anthracene	ND	10								
Acetophenone	ND	10								
Aniline	ND	10								
Azobenzene	ND	10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17423	Instrument ID SVMS3	Method: SW8270C						
Benzidine	ND	10						
Benzyl alcohol	ND	10						
Bis(2-chloroethoxy)methane	ND	10						
Bis(2-chloroethyl)ether	ND	10						
Bis(2-chloroisopropyl)ether	ND	10						
Bis(2-ethylhexyl)phthalate	ND	10						
Butyl benzyl phthalate	ND	10						
Diethyl phthalate	ND	10						
Dimethyl phthalate	ND	10						
Di-n-butyl phthalate	ND	10						
Di-n-octyl phthalate	ND	10						
Dinoseb	ND	20						
Diphenylamine	ND	10						
Ethyl methanesulfonate	ND	10						
Hexachlorobenzene	ND	10						
Hexachlorobutadiene	ND	10						
Hexachlorocyclopentadiene	ND	10						
Hexachloroethane	ND	10						
Isophorone	ND	10						
Isosafrole	ND	10						
Methapyrilene	ND	10						
Methyl methanesulfonate	ND	10						
Nitrobenzene	ND	10						
N-Nitrosodiethylamine	ND	10						
N-Nitrosodimethylamine	ND	10						
N-Nitroso-di-n-butylamine	ND	10						
N-Nitrosodi-n-propylamine	ND	10						
N-Nitrosomethylethylamine	ND	10						
N-Nitrosomorpholine	ND	10						
N-Nitrosopiperidine	ND	10						
N-Nitrosopyrrolidine	ND	10						
o-Toluidine	ND	10						
p-Dimethylaminoazobenzene	ND	10						
Pentachlorobenzene	ND	10						
Pentachloroethane	ND	10						
Pentachloronitrobenzene	ND	20						
Pentachlorophenol	ND	20						
Phenacetin	ND	20						
Phenol	ND	10						
Pyridine	ND	10						
Safrole	ND	10						
<i>Surr: 2,4,6-Tribromophenol</i>	84.28	0	100	0	84.3	35-120	0	
<i>Surr: 2-Fluorobiphenyl</i>	32.2	0	50	0	64.4	38-105	0	
<i>Surr: 2-Fluorophenol</i>	34.93	0	100	0	34.9	12-89	0	
<i>Surr: 4-Terphenyl-d14</i>	43.89	0	50	0	87.8	42-125	0	
<i>Surr: Nitrobenzene-d5</i>	32.56	0	50	0	65.1	28-120	0	
<i>Surr: Phenol-d5</i>	29.79	0	100	0	29.8	10-62	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17423 Instrument ID SVMS3 Method: SW8270C

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
LCS Sample ID Ics-17423-17423										
Client ID: Run ID: SVMS2_130628A SeqNo: 639125 Prep Date: 6/27/2013 DF: 1										
1,2,4-Trichlorobenzene	31.71	10	50	0	63.4	49.8-102	0			
1,4-Dichlorobenzene	27.42	10	50	0	54.8	44-92.8	0			
2,4-Dinitrotoluene	46.11	10	50	0	92.2	61.3-108	0			
2-Chlorophenol	33.13	10	50	0	66.3	33.3-89.9	0			
4-Chloro-3-methylphenol	43.85	20	50	0	87.7	39.3-96.6	0			
4-Nitrophenol	23.31	10	50	0	46.6	17.3-80.3	0			
Acenaphthene	38.05	0.10	50	0	76.1	40.1-123	0			
Acenaphthylene	38.66	0.10	50	0	77.3	59.3-126	0			
Anthracene	41.03	0.10	50	0	82.1	62.1-110	0			
Benzo(a)anthracene	46.55	0.10	50	0	93.1	62.3-118	0			
Benzo(a)pyrene	47.7	0.10	50	0	95.4	69.6-111	0			
Benzo(b)fluoranthene	39.05	0.11	50	0	78.1	60.1-94.5	0			
Benzo(g,h,i)perylene	45.78	0.10	50	0	91.6	66.8-138	0			
Benzo(k)fluoranthene	50.16	0.16	50	0	100	68.8-136	0			
Carbazole	45.68	10	50	0	91.4	70.8-115	0			
Chrysene	48.09	0.10	50	0	96.2	63.1-116	0			
Dibenzo(a,h)anthracene	43.36	0.10	50	0	86.7	47.1-168	0			
Fluoranthene	43.45	0.10	50	0	86.9	58.1-117	0			
Fluorene	40.71	0.10	50	0	81.4	59.5-120	0			
Indeno(1,2,3-cd)pyrene	42.03	0.10	50	0	84.1	56.3-141	0			
Naphthalene	32.53	0.10	50	0	65.1	46.6-104	0			
N-Nitrosodi-n-propylamine	38.18	10	50	0	76.4	54.8-121	0			
Pentachlorophenol	45.94	20	50	0	91.9	34.1-130	0			
Phenanthrene	42.2	0.10	50	0	84.4	63-118	0			
Phenol	17.02	10	50	0	34	17.5-68	0			
Pyrene	40.72	0.10	50	0	81.4	42-125	0			
Surr: 2,4,6-Tribromophenol	77.81	0	100	0	77.8	35-120	0			
Surr: 2-Fluorobiphenyl	35.18	0	50	0	70.4	38-105	0			
Surr: 2-Fluorophenol	40.74	0	100	0	40.7	12-89	0			
Surr: 4-Terphenyl-d14	40.75	0	50	0	81.5	42-125	0			
Surr: Nitrobenzene-d5	33.47	0	50	0	66.9	28-120	0			
Surr: Phenol-d5	33.49	0	100	0	33.5	10-62	0			

The following samples were analyzed in this batch:

1306670-02c	1306670-04c
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100272** Instrument ID **VMS1** Method: **SW8260**

MBLK	Sample ID	MBLK-R100272		Units: µg/L		Analysis Date: 7/1/2013 01:05 PM				
Client ID:	Run ID: VMS1_130701A			SeqNo: 639459		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1306670
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R100272	Instrument ID VMS1	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	2.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	50.09	0	50	0	100	61-131	0
<i>Surr: Dibromofluoromethane</i>	49.47	0	50	0	98.9	87-126	0
<i>Surr: Toluene-d8</i>	51.43	0	50	0	103	84-111	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100272** Instrument ID **VMS1** Method: **SW8260**

LCS		Sample ID LCS-R100272			Units: µg/L		Analysis Date: 7/1/2013 01:35 PM			
Client ID:		Run ID: VMS1_130701A			SeqNo: 639460		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	38.25	5.0	50	0	76.5	48.4-140	0			
1,1-Dichloroethene	41.27	5.0	50	0	82.5	45.5-150	0			
1,2-Dichloroethane	37.28	5.0	50	0	74.6	46.5-141	0			
1,3-Dichlorobenzene	37.08	5.0	50	0	74.2	42.5-133	0			
1,4-Dichlorobenzene	35.99	5.0	50	0	72	38.9-136	0			
Benzene	37.37	5.0	50	0	74.7	50.7-134	0			
Carbon tetrachloride	37.93	5.0	50	0	75.9	45.5-143	0			
Chlorobenzene	39.18	5.0	50	0	78.4	45-133	0			
Chloroform	39.37	5.0	50	0	78.7	52.4-136	0			
cis-1,2-Dichloroethene	39.78	5.0	50	0	79.6	49.7-138	0			
Ethylbenzene	38.57	5.0	50	0	77.1	37.8-145	0			
m,p-Xylene	75.14	5.0	100	0	75.1	25.1-163	0			
Styrene	38.8	5.0	50	0	77.6	26.3-172	0			
Tetrachloroethene	38.38	5.0	50	0	76.8	37.3-139	0			
Toluene	37.64	5.0	50	0	75.3	44-135	0			
Trichloroethene	40.46	5.0	50	0	80.9	46.9-134	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.86	0	50	0	99.7	61-131	0			
<i>Surr: Dibromofluoromethane</i>	50.23	0	50	0	100	87-126	0			
<i>Surr: Toluene-d8</i>	50.9	0	50	0	102	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100272** Instrument ID **VMS1** Method: **SW8260**

MS		Sample ID 1306628-05A MS			Units: µg/L		Analysis Date: 7/1/2013 02:05 PM			
Client ID:		Run ID: VMS1_130701A			SeqNo: 639461		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	37.01	5.0	50	0	74	47.4-141	0			
1,1-Dichloroethene	36.17	5.0	50	0	72.3	56.3-140	0			
1,2-Dichloroethane	40.61	5.0	50	0	81.2	50.1-139	0			
1,3-Dichlorobenzene	32.88	5.0	50	0	65.8	53-127	0			
1,4-Dichlorobenzene	33.84	5.0	50	0	67.7	53.4-129	0			
Benzene	36.86	5.0	50	0	73.7	52.8-136	0			
Carbon tetrachloride	36.59	5.0	50	0	73.2	48.1-141	0			
Chlorobenzene	37.21	5.0	50	0	74.4	52.4-132	0			
Chloroform	36.35	5.0	50	0	72.7	52.9-136	0			
cis-1,2-Dichloroethene	37.39	5.0	50	0	74.8	63.5-128	0			
Ethylbenzene	34.92	5.0	50	0	69.8	46.5-146	0			
m,p-Xylene	68.72	5.0	100	0	68.7	38.2-167	0			
Styrene	36.17	5.0	50	0	72.3	20.9-184	0			
Tetrachloroethene	33.97	5.0	50	0	67.9	55.2-134	0			
Toluene	35.88	5.0	50	0	71.8	45.1-138	0			
Trichloroethene	38.8	5.0	50	0	77.6	52.8-133	0			
<i>Surr: 4-Bromofluorobenzene</i>	51.68	0	50	0	103	61-131	0			
<i>Surr: Dibromofluoromethane</i>	48.96	0	50	0	97.9	87-126	0			
<i>Surr: Toluene-d8</i>	49.57	0	50	0	99.1	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100272** Instrument ID **VMS1** Method: **SW8260**

MSD		Sample ID 1306628-05A MSD			Units: $\mu\text{g/L}$		Analysis Date: 7/1/2013 02:35 PM			
Client ID:		Run ID: VMS1_130701A			SeqNo: 639462		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	50.51	5.0	50	0	101	47.4-141	37.01	30.9	20	R
1,1-Dichloroethene	53.44	5.0	50	0	107	56.3-140	36.17	38.5	20	R
1,2-Dichloroethane	52.49	5.0	50	0	105	50.1-139	40.61	25.5	20	R
1,3-Dichlorobenzene	50.88	5.0	50	0	102	53-127	32.88	43	20	R
1,4-Dichlorobenzene	51.64	5.0	50	0	103	53.4-129	33.84	41.6	20	R
Benzene	49.88	5.0	50	0	99.8	52.8-136	36.86	30	20	R
Carbon tetrachloride	53.15	5.0	50	0	106	48.1-141	36.59	36.9	20	R
Chlorobenzene	51.93	5.0	50	0	104	52.4-132	37.21	33	20	R
Chloroform	51.26	5.0	50	0	103	52.9-136	36.35	34	20	R
cis-1,2-Dichloroethene	51.69	5.0	50	0	103	63.5-128	37.39	32.1	20	R
Ethylbenzene	50.93	5.0	50	0	102	46.5-146	34.92	37.3	20	R
m,p-Xylene	99.71	5.0	100	0	99.7	38.2-167	68.72	36.8	20	R
Styrene	50.52	5.0	50	0	101	20.9-184	36.17	33.1	20	R
Tetrachloroethene	49.64	5.0	50	0	99.3	55.2-134	33.97	37.5	20	R
Toluene	50.28	5.0	50	0	101	45.1-138	35.88	33.4	20	R
Trichloroethene	53.49	5.0	50	0	107	52.8-133	38.8	31.8	20	R
<i>Surr: 4-Bromofluorobenzene</i>	51.82	0	50	0	104	61-131	51.68	0.271		
<i>Surr: Dibromofluoromethane</i>	50.41	0	50	0	101	87-126	48.96	2.92		
<i>Surr: Toluene-d8</i>	49.67	0	50	0	99.3	84-111	49.57	0.202		

The following samples were analyzed in this batch:

1306670-01A	1306670-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100286** Instrument ID **VMS1** Method: **SW8260**

MBLK	Sample ID	MBLK-R100286		Units: µg/L		Analysis Date: 7/2/2013 10:37 AM				
Client ID:	Run ID:	VMS1_130702A		SeqNo: 639767		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1306670
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R100286	Instrument ID VMS1	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	2.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	50.61	0	50	0	101	61-131	0
<i>Surr: Dibromofluoromethane</i>	48.07	0	50	0	96.1	87-126	0
<i>Surr: Toluene-d8</i>	42.84	0	50	0	85.7	84-111	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100286** Instrument ID **VMS1** Method: **SW8260**

LCS		Sample ID LCS-R100286			Units: µg/L		Analysis Date: 7/2/2013 11:07 AM			
Client ID:		Run ID: VMS1_130702A			SeqNo: 639768		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	43.34	5.0	50	0	86.7	48.4-140	0			
1,1-Dichloroethene	62.4	5.0	50	0	125	45.5-150	0			
1,2-Dichloroethane	46.49	5.0	50	0	93	46.5-141	0			
1,3-Dichlorobenzene	45.84	5.0	50	0	91.7	42.5-133	0			
1,4-Dichlorobenzene	45.89	5.0	50	0	91.8	38.9-136	0			
Benzene	52.96	5.0	50	0	106	50.7-134	0			
Carbon tetrachloride	40.4	5.0	50	0	80.8	45.5-143	0			
Chlorobenzene	48.81	5.0	50	0	97.6	45-133	0			
Chloroform	51.82	5.0	50	0	104	52.4-136	0			
cis-1,2-Dichloroethene	57.51	5.0	50	0	115	49.7-138	0			
Ethylbenzene	47.14	5.0	50	0	94.3	37.8-145	0			
m,p-Xylene	96.33	5.0	100	0	96.3	25.1-163	0			
Styrene	47.42	5.0	50	0	94.8	26.3-172	0			
Tetrachloroethene	47.56	5.0	50	0	95.1	37.3-139	0			
Toluene	47.06	5.0	50	0	94.1	44-135	0			
Trichloroethene	50.11	5.0	50	0	100	46.9-134	0			
Surr: 4-Bromofluorobenzene	55.2	0	50	0	110	61-131	0			
Surr: Dibromofluoromethane	53.34	0	50	0	107	87-126	0			
Surr: Toluene-d8	50.84	0	50	0	102	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100286** Instrument ID **VMS1** Method: **SW8260**

MS		Sample ID 1306670-03A MS			Units: µg/L		Analysis Date: 7/2/2013 11:37 AM			
Client ID: SW-9-062413		Run ID: VMS1_130702A			SeqNo: 639769		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	36.48	5.0	50	0	73	47.4-141	0			
1,1-Dichloroethene	52.08	5.0	50	0	104	56.3-140	0			
1,2-Dichloroethane	38.73	5.0	50	0	77.5	50.1-139	0			
1,3-Dichlorobenzene	41.2	5.0	50	0	82.4	53-127	0			
1,4-Dichlorobenzene	40.34	5.0	50	0	80.7	53.4-129	0			
Benzene	46.81	5.0	50	0	93.6	52.8-136	0			
Carbon tetrachloride	35.08	5.0	50	0	70.2	48.1-141	0			
Chlorobenzene	42.36	5.0	50	0	84.7	52.4-132	0			
Chloroform	43.78	5.0	50	0	87.6	52.9-136	0			
cis-1,2-Dichloroethene	50.23	5.0	50	0	100	63.5-128	0			
Ethylbenzene	41.59	5.0	50	0	83.2	46.5-146	0			
m,p-Xylene	84.09	5.0	100	0	84.1	38.2-167	0			
Styrene	41.12	5.0	50	0	82.2	20.9-184	0			
Tetrachloroethene	40.42	5.0	50	0	80.8	55.2-134	0			
Toluene	41.66	5.0	50	0	83.3	45.1-138	0			
Trichloroethene	44.37	5.0	50	0	88.7	52.8-133	0			
Surr: 4-Bromofluorobenzene	53.59	0	50	0	107	61-131	0			
Surr: Dibromofluoromethane	52.64	0	50	0	105	87-126	0			
Surr: Toluene-d8	51.47	0	50	0	103	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100286** Instrument ID **VMS1** Method: **SW8260**

MSD		Sample ID 1306670-03A MSD			Units: µg/L		Analysis Date: 7/2/2013 12:11 PM			
Client ID: SW-9-062413		Run ID: VMS1_130702A			SeqNo: 639770		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	33.96	5.0	50	0	67.9	47.4-141	36.48	7.16	20	
1,1-Dichloroethene	45.45	5.0	50	0	90.9	56.3-140	52.08	13.6	20	
1,2-Dichloroethane	34.71	5.0	50	0	69.4	50.1-139	38.73	10.9	20	
1,3-Dichlorobenzene	36.41	5.0	50	0	72.8	53-127	41.2	12.3	20	
1,4-Dichlorobenzene	36.86	5.0	50	0	73.7	53.4-129	40.34	9.02	20	
Benzene	41.68	5.0	50	0	83.4	52.8-136	46.81	11.6	20	
Carbon tetrachloride	33.22	5.0	50	0	66.4	48.1-141	35.08	5.45	20	
Chlorobenzene	39.01	5.0	50	0	78	52.4-132	42.36	8.23	20	
Chloroform	37.83	5.0	50	0	75.7	52.9-136	43.78	14.6	20	
cis-1,2-Dichloroethene	42.75	5.0	50	0	85.5	63.5-128	50.23	16.1	20	
Ethylbenzene	39.22	5.0	50	0	78.4	46.5-146	41.59	5.87	20	
m,p-Xylene	80.61	5.0	100	0	80.6	38.2-167	84.09	4.23	20	
Styrene	38.28	5.0	50	0	76.6	20.9-184	41.12	7.15	20	
Tetrachloroethene	37.81	5.0	50	0	75.6	55.2-134	40.42	6.67	20	
Toluene	37.01	5.0	50	0	74	45.1-138	41.66	11.8	20	
Trichloroethene	40.16	5.0	50	0	80.3	52.8-133	44.37	9.96	20	
Surr: 4-Bromofluorobenzene	51.79	0	50	0	104	61-131	53.59	3.42		
Surr: Dibromofluoromethane	51	0	50	0	102	87-126	52.64	3.16		
Surr: Toluene-d8	49.82	0	50	0	99.6	84-111	51.47	3.26		

The following samples were analyzed in this batch:

1306670-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
WorkOrder: 1306670

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/L	
mg/L	

Sample Receipt Checklist

Client Name: AECOM-CINCINNATI

Date/Time Received: 25-Jun-13 00:00

Work Order: 1306670

Received by: SMS

Checklist completed by Chris Gibson 25-Jun-13
eSignature Date

Reviewed by: Chris Gibson 25-Jun-13
eSignature Date

Matrices: Soil/Water

Carrier name: Client

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 4.1

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

[Empty text box for comments]

CorrectiveAction:

[Empty text box for corrective action]

Appendix M

Soil Boring Laboratory Reports



17-Jun-2013

Elaine Nomina
AECOM
4219 Malsbury Road
Cincinnati, OH 45242

Tel: (513) 878-6853
Fax: (513) 878-6848

Re: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: **1305449**

Dear Elaine,

ALS Environmental received 27 samples on 21-May-2013 07:00 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 80.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.

Client: AECOM
 Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
 Work Order: 1305449

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1305449-01	IA#1 S1-0002	Soil		5/20/2013 12:50	5/21/2013 19:00	<input type="checkbox"/>
1305449-02	IA#1 S1-0204	Soil		5/20/2013 12:57	5/21/2013 19:00	<input type="checkbox"/>
1305449-03	IA#1 S1-0406	Soil		5/20/2013 13:00	5/21/2013 19:00	<input type="checkbox"/>
1305449-04	IA#1 S1-0607.8	Soil		5/20/2013 13:10	5/21/2013 19:00	<input type="checkbox"/>
1305449-05	IA#1 S2-0002	Soil		5/20/2013 11:35	5/21/2013 19:00	<input type="checkbox"/>
1305449-06	IA#1 S2-0204	Soil		5/20/2013 11:37	5/21/2013 19:00	<input type="checkbox"/>
1305449-07	IA#1 S2-0406	Soil		5/20/2013 11:39	5/21/2013 19:00	<input type="checkbox"/>
1305449-08	IA#1 S2-0608	Soil		5/20/2013 12:18	5/21/2013 19:00	<input type="checkbox"/>
1305449-09	IA#1 S3-0002	Soil		5/20/2013 15:03	5/21/2013 19:00	<input type="checkbox"/>
1305449-10	IA#1 S3-0204	Soil		5/20/2013 15:08	5/21/2013 19:00	<input type="checkbox"/>
1305449-11	IA#1 S3-0406	Soil		5/20/2013 15:17	5/21/2013 19:00	<input type="checkbox"/>
1305449-12	IA#1 S3-0608	Soil		5/20/2013 15:18	5/21/2013 19:00	<input type="checkbox"/>
1305449-13	IA#1 S3-0810	Soil		5/20/2013 15:23	5/21/2013 19:00	<input type="checkbox"/>
1305449-14	IA#1 S4-0002	Soil		5/20/2013 13:41	5/21/2013 19:00	<input type="checkbox"/>
1305449-15	IA#1 S4-0204	Soil		5/20/2013 13:48	5/21/2013 19:00	<input type="checkbox"/>
1305449-16	IA#1 S4-0406	Soil		5/20/2013 13:50	5/21/2013 19:00	<input type="checkbox"/>
1305449-17	IA#1 S4-0608	Soil		5/20/2013 13:53	5/21/2013 19:00	<input type="checkbox"/>
1305449-18	IA#1 S5-0005	Soil		5/20/2013 17:35	5/21/2013 19:00	<input type="checkbox"/>
1305449-19	IA#1 S5-0506	Soil		5/20/2013 17:40	5/21/2013 19:00	<input type="checkbox"/>
1305449-20	IA#1 S5-0608	Soil		5/20/2013 17:50	5/21/2013 19:00	<input type="checkbox"/>
1305449-21	IA#1 S5-0810	Soil		5/20/2013 17:58	5/21/2013 19:00	<input type="checkbox"/>
1305449-22	IA#1 S13-0002	Soil		5/20/2013 15:49	5/21/2013 19:00	<input type="checkbox"/>
1305449-23	IA#1 S13-0204	Soil		5/20/2013 15:52	5/21/2013 19:00	<input type="checkbox"/>
1305449-24	IA#1 S13-0406	Soil		5/20/2013 15:55	5/21/2013 19:00	<input type="checkbox"/>
1305449-25	IA#1 S13-067.5	Soil		5/20/2013 16:05	5/21/2013 19:00	<input type="checkbox"/>
1305449-26	IA#1 S13-0810	Soil		5/20/2013 17:00	5/21/2013 19:00	<input type="checkbox"/>
1305449-27	TB-052013	Water		5/20/2013	5/21/2013 19:00	<input type="checkbox"/>

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305449

Case Narrative

The analyses requested were analyzed according to Ohio Voluntary Action Program requirements.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S1-0002

Lab ID: 1305449-01

Collection Date: 5/20/2013 12:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/22/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	93.2		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	82.0		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	12		0.010	% of sample	1	5/22/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.34	mg/Kg-dry	1	5/28/2013 01:35 PM
METALS BY ICP			SW6010B		Prep Date: 5/22/2013	Analyst: VAW
Aluminum	9,700		570	mg/Kg-dry	1	5/22/2013 04:17 PM
Antimony	ND		3.4	mg/Kg-dry	1	5/22/2013 04:17 PM
Arsenic	11		5.7	mg/Kg-dry	1	5/22/2013 04:17 PM
Barium	52		11	mg/Kg-dry	1	5/22/2013 04:17 PM
Beryllium	0.61		0.57	mg/Kg-dry	1	5/22/2013 04:17 PM
Cadmium	ND		1.1	mg/Kg-dry	1	5/22/2013 04:17 PM
Calcium	14,000		570	mg/Kg-dry	1	5/22/2013 04:17 PM
Chromium	15		2.3	mg/Kg-dry	1	5/22/2013 04:17 PM
Cobalt	10		5.7	mg/Kg-dry	1	5/22/2013 04:17 PM
Copper	50		5.7	mg/Kg-dry	1	5/22/2013 04:17 PM
Iron	24,000		110	mg/Kg-dry	1	5/22/2013 04:17 PM
Lead	19		5.7	mg/Kg-dry	1	5/22/2013 04:17 PM
Magnesium	4,300		110	mg/Kg-dry	1	5/22/2013 04:17 PM
Manganese	290		5.7	mg/Kg-dry	1	5/22/2013 04:17 PM
Nickel	24		5.7	mg/Kg-dry	1	5/22/2013 04:17 PM
Potassium	1,100		570	mg/Kg-dry	1	5/22/2013 04:17 PM
Selenium	ND		3.4	mg/Kg-dry	1	5/22/2013 04:17 PM
Silver	ND		1.1	mg/Kg-dry	1	5/22/2013 04:17 PM
Sodium	ND		570	mg/Kg-dry	1	5/22/2013 04:17 PM
Thallium	ND		3.4	mg/Kg-dry	1	5/22/2013 04:17 PM
Vanadium	18		5.7	mg/Kg-dry	1	5/22/2013 04:17 PM
Zinc	70		5.7	mg/Kg-dry	1	5/22/2013 04:17 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/28/2013	Analyst: Microb

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S1-0002

Lab ID: 1305449-01

Collection Date: 5/20/2013 12:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		2.2	µg/Kg	1	5/31/2013 11:46 PM
4,4'-DDE	12		2.2	µg/Kg	1	5/31/2013 11:46 PM
4,4'-DDT	7.8		2.2	µg/Kg	1	5/31/2013 11:46 PM
Aldrin	ND		2.2	µg/Kg	1	5/31/2013 11:46 PM
alpha-BHC	ND		2.2	µg/Kg	1	5/31/2013 11:46 PM
alpha-Chlordane	ND		2.2	µg/Kg	1	5/31/2013 11:46 PM
beta-BHC	ND		2.2	µg/Kg	1	5/31/2013 11:46 PM
delta-BHC	ND		2.2	µg/Kg	1	5/31/2013 11:46 PM
Dieldrin	ND		2.2	µg/Kg	1	5/31/2013 11:46 PM
Endosulfan I	ND		2.2	µg/Kg	1	5/31/2013 11:46 PM
Endosulfan II	ND		2.2	µg/Kg	1	5/31/2013 11:46 PM
Endosulfan sulfate	ND		2.2	µg/Kg	1	5/31/2013 11:46 PM
Endrin	ND		2.2	µg/Kg	1	5/31/2013 11:46 PM
Endrin aldehyde	ND		2.2	µg/Kg	1	5/31/2013 11:46 PM
Endrin ketone	ND		2.2	µg/Kg	1	5/31/2013 11:46 PM
gamma-BHC (Lindane)	ND		2.2	µg/Kg	1	5/31/2013 11:46 PM
gamma-Chlordane	2.4		2.2	µg/Kg	1	5/31/2013 11:46 PM
Heptachlor	ND		2.2	µg/Kg	1	5/31/2013 11:46 PM
Heptachlor epoxide	ND		2.2	µg/Kg	1	5/31/2013 11:46 PM
Methoxychlor	ND		2.2	µg/Kg	1	5/31/2013 11:46 PM
Toxaphene	ND		44	µg/Kg	1	5/31/2013 11:46 PM
<i>Surr: Decachlorobiphenyl</i>	41.6		33-143	%REC	1	5/31/2013 11:46 PM
<i>Surr: Tetrachloro-m-xylene</i>	45.3		39-130	%REC	1	5/31/2013 11:46 PM

HERBICIDES

SW8151

Prep Date: **5/29/2013**

Analyst: **Microb**

2,4,5-T	ND		0.0050	mg/Kg	1	6/3/2013 07:57 PM
2,4,5-TP (Silvex)	ND		0.0037	mg/Kg	1	6/3/2013 07:57 PM
2,4-D	ND		0.050	mg/Kg	1	6/3/2013 07:57 PM
2,4-DB	ND		0.050	mg/Kg	1	6/3/2013 07:57 PM
Dalapon	ND		0.12	mg/Kg	1	6/3/2013 07:57 PM
Dicamba	ND		0.0050	mg/Kg	1	6/3/2013 07:57 PM
Dichlorprop	ND		0.050	mg/Kg	1	6/3/2013 07:57 PM
Dinoseb	ND		0.025	mg/Kg	1	6/3/2013 07:57 PM
MCPA	ND		5.0	mg/Kg	1	6/3/2013 07:57 PM
MCPP	ND		5.0	mg/Kg	1	6/3/2013 07:57 PM
Pentachlorophenol	ND		0.0050	mg/Kg	1	6/3/2013 07:57 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	175	S	25-110	%REC	1	6/3/2013 07:57 PM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: **5/24/2013**

Analyst: **JCL**

1,2,4,5-Tetrachlorobenzene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
1,2,4-Trichlorobenzene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S1-0002

Lab ID: 1305449-01

Collection Date: 5/20/2013 12:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
1,3-Dichlorobenzene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
1,3-Dinitrobenzene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
1,4-Dichlorobenzene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
1-Methylnaphthalene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
1-Naphthylamine	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
2,3,4,6-Tetrachlorophenol	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
2,4,5-Trichlorophenol	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
2,4,6-Trichlorophenol	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
2,4-Dichlorophenol	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
2,4-Dimethylphenol	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	5/24/2013 10:37 PM
2,4-Dinitrotoluene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
2,6-Dichlorophenol	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
2,6-Dinitrotoluene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
2-Acetylaminofluorene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
2-Chloronaphthalene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
2-Chlorophenol	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
2-Methylnaphthalene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
2-Methylphenol	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
2-Naphthylamine	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/24/2013 10:37 PM
2-Nitrophenol	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
2-Picoline	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
3&4-Methylphenol	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
3,3'-Dichlorobenzidine	ND		750	µg/Kg-dry	1	5/24/2013 10:37 PM
3-Methylcholanthrene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/24/2013 10:37 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	5/24/2013 10:37 PM
4-Aminobiphenyl	ND		750	µg/Kg-dry	1	5/24/2013 10:37 PM
4-Bromophenyl phenyl ether	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
4-Chloro-3-methylphenol	ND		750	µg/Kg-dry	1	5/24/2013 10:37 PM
4-Chloroaniline	ND		750	µg/Kg-dry	1	5/24/2013 10:37 PM
4-Chlorophenyl phenyl ether	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
4-Nitroaniline	ND		750	µg/Kg-dry	1	5/24/2013 10:37 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	5/24/2013 10:37 PM
4-Nitroquinoline 1-oxide	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
5-Nitro-o-toluidine	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
7,12-Dimethylbenz(a)anthracene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Acenaphthene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S1-0002

Lab ID: 1305449-01

Collection Date: 5/20/2013 12:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Acetophenone	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Aniline	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Anthracene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Azobenzene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Benzidine	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Benzo(a)anthracene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Benzo(a)pyrene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Benzo(b)fluoranthene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Benzo(g,h,i)perylene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Benzo(k)fluoranthene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Benzyl alcohol	ND		750	µg/Kg-dry	1	5/24/2013 10:37 PM
Bis(2-chloroethoxy)methane	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Bis(2-chloroethyl)ether	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Bis(2-chloroisopropyl)ether	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Bis(2-ethylhexyl)phthalate	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Butyl benzyl phthalate	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Carbazole	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Chrysene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Dibenzo(a,h)anthracene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Dibenzofuran	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Diethyl phthalate	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Dimethyl phthalate	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Di-n-butyl phthalate	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Di-n-octyl phthalate	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Dinoseb	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Diphenylamine	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Ethyl methanesulfonate	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Fluoranthene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Fluorene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Hexachlorobenzene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Hexachlorobutadiene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Hexachlorocyclopentadiene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Hexachloroethane	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Indeno(1,2,3-cd)pyrene	ND		170	µg/Kg-dry	1	5/24/2013 10:37 PM
Isophorone	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Isosafrole	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Methapyrilene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Methyl methanesulfonate	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Naphthalene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S1-0002

Lab ID: 1305449-01

Collection Date: 5/20/2013 12:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
N-Nitrosodiethylamine	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
N-Nitrosodimethylamine	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
N-Nitroso-di-n-butylamine	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
N-Nitrosodi-n-propylamine	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
N-Nitrosomethylethylamine	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
N-Nitrosomorpholine	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
N-Nitrosopiperidine	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
N-Nitrosopyrrolidine	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
o-Toluidine	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
p-Dimethylaminoazobenzene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Pentachlorobenzene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Pentachloroethane	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Pentachloronitrobenzene	ND		750	µg/Kg-dry	1	5/24/2013 10:37 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	5/24/2013 10:37 PM
Phenacetin	ND		750	µg/Kg-dry	1	5/24/2013 10:37 PM
Phenanthrene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Phenol	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Pyrene	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Pyridine	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
Safrole	ND		380	µg/Kg-dry	1	5/24/2013 10:37 PM
<i>Surr: 2,4,6-Tribromophenol</i>	70.7		18-115	%REC	1	5/24/2013 10:37 PM
<i>Surr: 2-Fluorobiphenyl</i>	53.9		30-116	%REC	1	5/24/2013 10:37 PM
<i>Surr: 2-Fluorophenol</i>	40.8		24-105	%REC	1	5/24/2013 10:37 PM
<i>Surr: 4-Terphenyl-d14</i>	61.0		40-127	%REC	1	5/24/2013 10:37 PM
<i>Surr: Nitrobenzene-d5</i>	58.7		32-106	%REC	1	5/24/2013 10:37 PM
<i>Surr: Phenol-d5</i>	46.4		39-123	%REC	1	5/24/2013 10:37 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/22/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
1,1,1-Trichloroethane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
1,1,2,2-Tetrachloroethane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
1,1,2-Trichloroethane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
1,1-Dichloroethane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
1,1-Dichloroethene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
1,1-Dichloropropene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
1,2,3-Trichlorobenzene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
1,2,3-Trichloropropane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
1,2,4-Trichlorobenzene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
1,2,4-Trimethylbenzene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
1,2-Dibromo-3-chloropropane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S1-0002

Lab ID: 1305449-01

Collection Date: 5/20/2013 12:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
1,2-Dichlorobenzene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
1,2-Dichloroethane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
1,2-Dichloropropane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
1,3,5-Trimethylbenzene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
1,3-Dichlorobenzene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
1,3-Dichloropropane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
1,4-Dichlorobenzene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
2,2-Dichloropropane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
2-Butanone	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
2-Chlorotoluene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
2-Hexanone	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
4-Chlorotoluene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
4-Methyl-2-pentanone	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Acetone	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Benzene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Bromobenzene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Bromochloromethane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Bromodichloromethane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Bromoform	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Bromomethane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Carbon disulfide	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Carbon tetrachloride	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Chlorobenzene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Chloroethane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Chloroform	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Chloromethane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
cis-1,2-Dichloroethene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
cis-1,3-Dichloropropene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Dibromochloromethane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Dibromomethane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Dichlorodifluoromethane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Ethylbenzene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Hexachlorobutadiene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Isopropylbenzene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
m,p-Xylene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Methyl tert-butyl ether	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Methylene chloride	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Naphthalene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
n-Butylbenzene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S1-0002

Lab ID: 1305449-01

Collection Date: 5/20/2013 12:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
o-Xylene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
p-Isopropyltoluene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
sec-Butylbenzene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Styrene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
tert-Butylbenzene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Tetrachloroethene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Toluene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
trans-1,2-Dichloroethene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
trans-1,3-Dichloropropene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Trichloroethene	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Trichlorofluoromethane	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Vinyl chloride	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Xylenes, Total	ND		5.5	µg/Kg-dry	1	5/24/2013 02:51 PM
Surr: 4-Bromofluorobenzene	97.9		62.7-159	%REC	1	5/24/2013 02:51 PM
Surr: Dibromofluoromethane	100		88.2-133	%REC	1	5/24/2013 02:51 PM
Surr: Toluene-d8	97.4		81.5-110	%REC	1	5/24/2013 02:51 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S1-0204

Lab ID: 1305449-02

Collection Date: 5/20/2013 12:57 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/22/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	90.8		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	80.0		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	17		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S1-0406

Lab ID: 1305449-03

Collection Date: 5/20/2013 01:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/22/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	93.2		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	80.4		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	15		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S1-0607.8

Lab ID: 1305449-04

Collection Date: 5/20/2013 01:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/22/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	90.8		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	79.6		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	13		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S2-0002

Lab ID: 1305449-05

Collection Date: 5/20/2013 11:35 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/22/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	102		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	80.8		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	15		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S2-0204

Lab ID: 1305449-06

Collection Date: 5/20/2013 11:37 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/22/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	90.8		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	79.2		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	18		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S2-0406

Lab ID: 1305449-07

Collection Date: 5/20/2013 11:39 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/22/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	92.8		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	81.6		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	13		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S2-0608

Lab ID: 1305449-08

Collection Date: 5/20/2013 12:18 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/22/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	89.6		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	79.2		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	12		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S3-0002

Lab ID: 1305449-09

Collection Date: 5/20/2013 03:03 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/22/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	91.2		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	82.0		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	16		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S3-0204

Lab ID: 1305449-10

Collection Date: 5/20/2013 03:08 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/22/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	106		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	96.4		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	14		0.010	% of sample	1	5/22/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.34	mg/Kg-dry	1	5/28/2013 01:42 PM
METALS BY ICP			SW6010B		Prep Date: 5/22/2013	Analyst: VAW
Aluminum	9,900		580	mg/Kg-dry	1	5/22/2013 04:23 PM
Antimony	ND		3.5	mg/Kg-dry	1	5/22/2013 04:23 PM
Arsenic	10		5.8	mg/Kg-dry	1	5/22/2013 04:23 PM
Barium	47		12	mg/Kg-dry	1	5/22/2013 04:23 PM
Beryllium	ND		0.58	mg/Kg-dry	1	5/22/2013 04:23 PM
Cadmium	ND		1.2	mg/Kg-dry	1	5/22/2013 04:23 PM
Calcium	45,000		580	mg/Kg-dry	1	5/22/2013 04:23 PM
Chromium	17		2.3	mg/Kg-dry	1	5/22/2013 04:23 PM
Cobalt	8.4		5.8	mg/Kg-dry	1	5/22/2013 04:23 PM
Copper	22		5.8	mg/Kg-dry	1	5/22/2013 04:23 PM
Iron	25,000		120	mg/Kg-dry	1	5/22/2013 04:23 PM
Lead	11		5.8	mg/Kg-dry	1	5/22/2013 04:23 PM
Magnesium	6,400		120	mg/Kg-dry	1	5/22/2013 04:23 PM
Manganese	310		5.8	mg/Kg-dry	1	5/22/2013 04:23 PM
Nickel	27		5.8	mg/Kg-dry	1	5/22/2013 04:23 PM
Potassium	1,100		580	mg/Kg-dry	1	5/22/2013 04:23 PM
Selenium	ND		3.5	mg/Kg-dry	1	5/22/2013 04:23 PM
Silver	ND		1.2	mg/Kg-dry	1	5/22/2013 04:23 PM
Sodium	ND		580	mg/Kg-dry	1	5/22/2013 04:23 PM
Thallium	ND		3.5	mg/Kg-dry	1	5/22/2013 04:23 PM
Vanadium	17		5.8	mg/Kg-dry	1	5/22/2013 04:23 PM
Zinc	81		5.8	mg/Kg-dry	1	5/22/2013 04:23 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/28/2013	Analyst: Microb

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S3-0204

Lab ID: 1305449-10

Collection Date: 5/20/2013 03:08 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		1.9	µg/Kg	1	6/1/2013 01:37 AM
4,4'-DDE	ND		1.9	µg/Kg	1	6/1/2013 01:37 AM
4,4'-DDT	ND		1.9	µg/Kg	1	6/1/2013 01:37 AM
Aldrin	ND		1.9	µg/Kg	1	6/1/2013 01:37 AM
alpha-BHC	ND		1.9	µg/Kg	1	6/1/2013 01:37 AM
alpha-Chlordane	ND		1.9	µg/Kg	1	6/1/2013 01:37 AM
beta-BHC	ND		1.9	µg/Kg	1	6/1/2013 01:37 AM
delta-BHC	ND		1.9	µg/Kg	1	6/1/2013 01:37 AM
Dieldrin	ND		1.9	µg/Kg	1	6/1/2013 01:37 AM
Endosulfan I	ND		1.9	µg/Kg	1	6/1/2013 01:37 AM
Endosulfan II	ND		1.9	µg/Kg	1	6/1/2013 01:37 AM
Endosulfan sulfate	ND		1.9	µg/Kg	1	6/1/2013 01:37 AM
Endrin	ND		1.9	µg/Kg	1	6/1/2013 01:37 AM
Endrin aldehyde	ND		1.9	µg/Kg	1	6/1/2013 01:37 AM
Endrin ketone	ND		1.9	µg/Kg	1	6/1/2013 01:37 AM
gamma-BHC (Lindane)	ND		1.9	µg/Kg	1	6/1/2013 01:37 AM
gamma-Chlordane	ND		1.9	µg/Kg	1	6/1/2013 01:37 AM
Heptachlor	ND		1.9	µg/Kg	1	6/1/2013 01:37 AM
Heptachlor epoxide	ND		1.9	µg/Kg	1	6/1/2013 01:37 AM
Methoxychlor	ND		1.9	µg/Kg	1	6/1/2013 01:37 AM
Toxaphene	ND		37	µg/Kg	1	6/1/2013 01:37 AM
Surr: Decachlorobiphenyl	49.0		33-143	%REC	1	6/1/2013 01:37 AM
Surr: Tetrachloro-m-xylene	49.6		39-130	%REC	1	6/1/2013 01:37 AM

HERBICIDES

SW8151

Prep Date: 5/29/2013

Analyst: Microb

2,4,5-T	ND		0.0052	mg/Kg	1	6/3/2013 08:22 PM
2,4,5-TP (Silvex)	ND		0.0039	mg/Kg	1	6/3/2013 08:22 PM
2,4-D	ND		0.052	mg/Kg	1	6/3/2013 08:22 PM
2,4-DB	ND		0.052	mg/Kg	1	6/3/2013 08:22 PM
Dalapon	ND		0.13	mg/Kg	1	6/3/2013 08:22 PM
Dicamba	ND		0.0052	mg/Kg	1	6/3/2013 08:22 PM
Dichlorprop	ND		0.052	mg/Kg	1	6/3/2013 08:22 PM
Dinoseb	ND		0.026	mg/Kg	1	6/3/2013 08:22 PM
MCPA	ND		5.2	mg/Kg	1	6/3/2013 08:22 PM
MCPP	ND		5.2	mg/Kg	1	6/3/2013 08:22 PM
Pentachlorophenol	ND		0.0052	mg/Kg	1	6/3/2013 08:22 PM
Surr: 2,4-Dichlorophenylacetic acid	98.6		25-110	%REC	1	6/3/2013 08:22 PM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 5/24/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
1,2,4-Trichlorobenzene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S3-0204

Lab ID: 1305449-10

Collection Date: 5/20/2013 03:08 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
1,3-Dichlorobenzene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
1,3-Dinitrobenzene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
1,4-Dichlorobenzene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
1-Methylnaphthalene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
1-Naphthylamine	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
2,3,4,6-Tetrachlorophenol	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
2,4,5-Trichlorophenol	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
2,4,6-Trichlorophenol	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
2,4-Dichlorophenol	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
2,4-Dimethylphenol	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	5/24/2013 11:11 PM
2,4-Dinitrotoluene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
2,6-Dichlorophenol	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
2,6-Dinitrotoluene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
2-Acetylaminofluorene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
2-Chloronaphthalene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
2-Chlorophenol	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
2-Methylnaphthalene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
2-Methylphenol	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
2-Naphthylamine	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/24/2013 11:11 PM
2-Nitrophenol	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
2-Picoline	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
3&4-Methylphenol	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
3,3'-Dichlorobenzidine	ND		770	µg/Kg-dry	1	5/24/2013 11:11 PM
3-Methylcholanthrene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/24/2013 11:11 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	5/24/2013 11:11 PM
4-Aminobiphenyl	ND		770	µg/Kg-dry	1	5/24/2013 11:11 PM
4-Bromophenyl phenyl ether	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
4-Chloro-3-methylphenol	ND		770	µg/Kg-dry	1	5/24/2013 11:11 PM
4-Chloroaniline	ND		770	µg/Kg-dry	1	5/24/2013 11:11 PM
4-Chlorophenyl phenyl ether	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
4-Nitroaniline	ND		770	µg/Kg-dry	1	5/24/2013 11:11 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	5/24/2013 11:11 PM
4-Nitroquinoline 1-oxide	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
5-Nitro-o-toluidine	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
7,12-Dimethylbenz(a)anthracene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Acenaphthene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S3-0204

Lab ID: 1305449-10

Collection Date: 5/20/2013 03:08 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Acetophenone	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Aniline	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Anthracene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Azobenzene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Benzidine	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Benzo(a)anthracene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Benzo(a)pyrene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Benzo(b)fluoranthene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Benzo(g,h,i)perylene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Benzo(k)fluoranthene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Benzyl alcohol	ND		770	µg/Kg-dry	1	5/24/2013 11:11 PM
Bis(2-chloroethoxy)methane	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Bis(2-chloroethyl)ether	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Bis(2-chloroisopropyl)ether	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Bis(2-ethylhexyl)phthalate	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Butyl benzyl phthalate	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Carbazole	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Chrysene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Dibenzo(a,h)anthracene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Dibenzofuran	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Diethyl phthalate	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Dimethyl phthalate	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Di-n-butyl phthalate	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Di-n-octyl phthalate	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Dinoseb	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Diphenylamine	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Ethyl methanesulfonate	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Fluoranthene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Fluorene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Hexachlorobenzene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Hexachlorobutadiene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Hexachlorocyclopentadiene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Hexachloroethane	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Indeno(1,2,3-cd)pyrene	ND		170	µg/Kg-dry	1	5/24/2013 11:11 PM
Isophorone	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Isosafrole	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Methapyrilene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Methyl methanesulfonate	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Naphthalene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S3-0204

Lab ID: 1305449-10

Collection Date: 5/20/2013 03:08 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
N-Nitrosodiethylamine	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
N-Nitrosodimethylamine	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
N-Nitroso-di-n-butylamine	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
N-Nitrosodi-n-propylamine	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
N-Nitrosomethylethylamine	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
N-Nitrosomorpholine	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
N-Nitrosopiperidine	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
N-Nitrosopyrrolidine	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
o-Toluidine	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
p-Dimethylaminoazobenzene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Pentachlorobenzene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Pentachloroethane	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Pentachloronitrobenzene	ND		770	µg/Kg-dry	1	5/24/2013 11:11 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	5/24/2013 11:11 PM
Phenacetin	ND		770	µg/Kg-dry	1	5/24/2013 11:11 PM
Phenanthrene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Phenol	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Pyrene	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Pyridine	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
Safrole	ND		380	µg/Kg-dry	1	5/24/2013 11:11 PM
<i>Surr: 2,4,6-Tribromophenol</i>	66.9		18-115	%REC	1	5/24/2013 11:11 PM
<i>Surr: 2-Fluorobiphenyl</i>	53.7		30-116	%REC	1	5/24/2013 11:11 PM
<i>Surr: 2-Fluorophenol</i>	39.7		24-105	%REC	1	5/24/2013 11:11 PM
<i>Surr: 4-Terphenyl-d14</i>	60.4		40-127	%REC	1	5/24/2013 11:11 PM
<i>Surr: Nitrobenzene-d5</i>	57.6		32-106	%REC	1	5/24/2013 11:11 PM
<i>Surr: Phenol-d5</i>	47.2		39-123	%REC	1	5/24/2013 11:11 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/22/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
1,1,1-Trichloroethane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
1,1,2,2-Tetrachloroethane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
1,1,2-Trichloroethane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
1,1-Dichloroethane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
1,1-Dichloroethene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
1,1-Dichloropropene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
1,2,3-Trichlorobenzene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
1,2,3-Trichloropropane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
1,2,4-Trichlorobenzene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
1,2,4-Trimethylbenzene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
1,2-Dibromo-3-chloropropane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S3-0204

Lab ID: 1305449-10

Collection Date: 5/20/2013 03:08 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
1,2-Dichlorobenzene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
1,2-Dichloroethane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
1,2-Dichloropropane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
1,3,5-Trimethylbenzene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
1,3-Dichlorobenzene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
1,3-Dichloropropane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
1,4-Dichlorobenzene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
2,2-Dichloropropane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
2-Butanone	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
2-Chlorotoluene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
2-Hexanone	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
4-Chlorotoluene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
4-Methyl-2-pentanone	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Acetone	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Benzene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Bromobenzene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Bromochloromethane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Bromodichloromethane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Bromoform	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Bromomethane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Carbon disulfide	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Carbon tetrachloride	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Chlorobenzene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Chloroethane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Chloroform	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Chloromethane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
cis-1,2-Dichloroethene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
cis-1,3-Dichloropropene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Dibromochloromethane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Dibromomethane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Dichlorodifluoromethane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Ethylbenzene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Hexachlorobutadiene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Isopropylbenzene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
m,p-Xylene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Methyl tert-butyl ether	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Methylene chloride	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Naphthalene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
n-Butylbenzene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S3-0204

Lab ID: 1305449-10

Collection Date: 5/20/2013 03:08 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
o-Xylene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
p-Isopropyltoluene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
sec-Butylbenzene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Styrene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
tert-Butylbenzene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Tetrachloroethene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Toluene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
trans-1,2-Dichloroethene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
trans-1,3-Dichloropropene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Trichloroethene	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Trichlorofluoromethane	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Vinyl chloride	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Xylenes, Total	ND		4.6	µg/Kg-dry	1	5/24/2013 03:22 PM
Surr: 4-Bromofluorobenzene	95.5		62.7-159	%REC	1	5/24/2013 03:22 PM
Surr: Dibromofluoromethane	97.2		88.2-133	%REC	1	5/24/2013 03:22 PM
Surr: Toluene-d8	97.1		81.5-110	%REC	1	5/24/2013 03:22 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S3-0406

Lab ID: 1305449-11

Collection Date: 5/20/2013 03:17 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/22/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	90.8		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	96.4		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	13		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S3-0608

Lab ID: 1305449-12

Collection Date: 5/20/2013 03:18 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/22/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	91.6		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	94.8		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	14		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S3-0810

Lab ID: 1305449-13

Collection Date: 5/20/2013 03:23 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/22/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	91.2		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	82.4		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	13		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S4-0002

Lab ID: 1305449-14

Collection Date: 5/20/2013 01:41 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/22/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	92.4		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	86.0		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	12		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S4-0204

Lab ID: 1305449-15

Collection Date: 5/20/2013 01:48 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/22/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	92.0		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	85.6		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	14		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S4-0406

Lab ID: 1305449-16

Collection Date: 5/20/2013 01:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/22/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	91.6		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	81.2		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	13		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S4-0608

Lab ID: 1305449-17

Collection Date: 5/20/2013 01:53 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/22/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	91.2		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	84.0		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	13		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S5-0005

Lab ID: 1305449-18

Collection Date: 5/20/2013 05:35 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/22/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	90.4		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	81.2		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	12		0.010	% of sample	1	5/22/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.31	mg/Kg-dry	1	5/28/2013 01:44 PM
METALS BY ICP			SW6010B		Prep Date: 5/22/2013	Analyst: VAW
Aluminum	7,700		560	mg/Kg-dry	1	5/22/2013 04:55 PM
Antimony	ND		3.4	mg/Kg-dry	1	5/22/2013 04:55 PM
Arsenic	12		5.6	mg/Kg-dry	1	5/22/2013 04:55 PM
Barium	23		11	mg/Kg-dry	1	5/22/2013 04:55 PM
Beryllium	ND		0.56	mg/Kg-dry	1	5/22/2013 04:55 PM
Cadmium	ND		1.1	mg/Kg-dry	1	5/22/2013 04:55 PM
Calcium	4,000		560	mg/Kg-dry	1	5/22/2013 04:55 PM
Chromium	11		2.2	mg/Kg-dry	1	5/22/2013 04:55 PM
Cobalt	7.0		5.6	mg/Kg-dry	1	5/22/2013 04:55 PM
Copper	14		5.6	mg/Kg-dry	1	5/22/2013 04:55 PM
Iron	22,000		110	mg/Kg-dry	1	5/22/2013 04:55 PM
Lead	12		5.6	mg/Kg-dry	1	5/22/2013 04:55 PM
Magnesium	2,100		110	mg/Kg-dry	1	5/22/2013 04:55 PM
Manganese	180		5.6	mg/Kg-dry	1	5/22/2013 04:55 PM
Nickel	18		5.6	mg/Kg-dry	1	5/22/2013 04:55 PM
Potassium	ND		560	mg/Kg-dry	1	5/22/2013 04:55 PM
Selenium	ND		3.4	mg/Kg-dry	1	5/22/2013 04:55 PM
Silver	ND		1.1	mg/Kg-dry	1	5/22/2013 04:55 PM
Sodium	ND		560	mg/Kg-dry	1	5/22/2013 04:55 PM
Thallium	ND		3.4	mg/Kg-dry	1	5/22/2013 04:55 PM
Vanadium	15		5.6	mg/Kg-dry	1	5/22/2013 04:55 PM
Zinc	61		5.6	mg/Kg-dry	1	5/22/2013 04:55 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/28/2013	Analyst: Microb

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S5-0005

Lab ID: 1305449-18

Collection Date: 5/20/2013 05:35 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		2.1	µg/Kg	1	6/1/2013 02:05 AM
4,4'-DDE	3.5		2.1	µg/Kg	1	6/1/2013 02:05 AM
4,4'-DDT	ND		2.1	µg/Kg	1	6/1/2013 02:05 AM
Aldrin	ND		2.1	µg/Kg	1	6/1/2013 02:05 AM
alpha-BHC	ND		2.1	µg/Kg	1	6/1/2013 02:05 AM
alpha-Chlordane	ND		2.1	µg/Kg	1	6/1/2013 02:05 AM
beta-BHC	ND		2.1	µg/Kg	1	6/1/2013 02:05 AM
delta-BHC	ND		2.1	µg/Kg	1	6/1/2013 02:05 AM
Dieldrin	ND		2.1	µg/Kg	1	6/1/2013 02:05 AM
Endosulfan I	ND		2.1	µg/Kg	1	6/1/2013 02:05 AM
Endosulfan II	ND		2.1	µg/Kg	1	6/1/2013 02:05 AM
Endosulfan sulfate	ND		2.1	µg/Kg	1	6/1/2013 02:05 AM
Endrin	ND		2.1	µg/Kg	1	6/1/2013 02:05 AM
Endrin aldehyde	ND		2.1	µg/Kg	1	6/1/2013 02:05 AM
Endrin ketone	ND		2.1	µg/Kg	1	6/1/2013 02:05 AM
gamma-BHC (Lindane)	ND		2.1	µg/Kg	1	6/1/2013 02:05 AM
gamma-Chlordane	ND		2.1	µg/Kg	1	6/1/2013 02:05 AM
Heptachlor	ND		2.1	µg/Kg	1	6/1/2013 02:05 AM
Heptachlor epoxide	ND		2.1	µg/Kg	1	6/1/2013 02:05 AM
Methoxychlor	ND		2.1	µg/Kg	1	6/1/2013 02:05 AM
Toxaphene	ND		43	µg/Kg	1	6/1/2013 02:05 AM
Surr: Decachlorobiphenyl	44.0		33-143	%REC	1	6/1/2013 02:05 AM
Surr: Tetrachloro-m-xylene	44.6		39-130	%REC	1	6/1/2013 02:05 AM

HERBICIDES

SW8151

Prep Date: **5/29/2013**

Analyst: **Microb**

2,4,5-T	ND		0.0051	mg/Kg	1	6/3/2013 08:48 PM
2,4,5-TP (Silvex)	ND		0.0038	mg/Kg	1	6/3/2013 08:48 PM
2,4-D	ND		0.051	mg/Kg	1	6/3/2013 08:48 PM
2,4-DB	ND		0.051	mg/Kg	1	6/3/2013 08:48 PM
Dalapon	ND		0.13	mg/Kg	1	6/3/2013 08:48 PM
Dicamba	ND		0.0051	mg/Kg	1	6/3/2013 08:48 PM
Dichlorprop	ND		0.051	mg/Kg	1	6/3/2013 08:48 PM
Dinoseb	ND		0.025	mg/Kg	1	6/3/2013 08:48 PM
MCPA	ND		5.1	mg/Kg	1	6/3/2013 08:48 PM
MCPP	ND		5.1	mg/Kg	1	6/3/2013 08:48 PM
Pentachlorophenol	ND		0.0051	mg/Kg	1	6/3/2013 08:48 PM
Surr: 2,4-Dichlorophenylacetic acid	103		25-110	%REC	1	6/3/2013 08:48 PM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: **5/24/2013**

Analyst: **JCL**

1,2,4,5-Tetrachlorobenzene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
1,2,4-Trichlorobenzene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S5-0005

Lab ID: 1305449-18

Collection Date: 5/20/2013 05:35 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
1,3-Dichlorobenzene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
1,3-Dinitrobenzene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
1,4-Dichlorobenzene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
1-Methylnaphthalene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
1-Naphthylamine	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
2,3,4,6-Tetrachlorophenol	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
2,4,5-Trichlorophenol	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
2,4,6-Trichlorophenol	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
2,4-Dichlorophenol	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
2,4-Dimethylphenol	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	5/24/2013 11:44 PM
2,4-Dinitrotoluene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
2,6-Dichlorophenol	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
2,6-Dinitrotoluene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
2-Acetylaminofluorene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
2-Chloronaphthalene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
2-Chlorophenol	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
2-Methylnaphthalene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
2-Methylphenol	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
2-Naphthylamine	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/24/2013 11:44 PM
2-Nitrophenol	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
2-Picoline	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
3&4-Methylphenol	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
3,3'-Dichlorobenzidine	ND		750	µg/Kg-dry	1	5/24/2013 11:44 PM
3-Methylcholanthrene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/24/2013 11:44 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	5/24/2013 11:44 PM
4-Aminobiphenyl	ND		750	µg/Kg-dry	1	5/24/2013 11:44 PM
4-Bromophenyl phenyl ether	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
4-Chloro-3-methylphenol	ND		750	µg/Kg-dry	1	5/24/2013 11:44 PM
4-Chloroaniline	ND		750	µg/Kg-dry	1	5/24/2013 11:44 PM
4-Chlorophenyl phenyl ether	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
4-Nitroaniline	ND		750	µg/Kg-dry	1	5/24/2013 11:44 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	5/24/2013 11:44 PM
4-Nitroquinoline 1-oxide	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
5-Nitro-o-toluidine	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
7,12-Dimethylbenz(a)anthracene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Acenaphthene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S5-0005

Lab ID: 1305449-18

Collection Date: 5/20/2013 05:35 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Acetophenone	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Aniline	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Anthracene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Azobenzene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Benzidine	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Benzo(a)anthracene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Benzo(a)pyrene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Benzo(b)fluoranthene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Benzo(g,h,i)perylene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Benzo(k)fluoranthene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Benzyl alcohol	ND		750	µg/Kg-dry	1	5/24/2013 11:44 PM
Bis(2-chloroethoxy)methane	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Bis(2-chloroethyl)ether	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Bis(2-chloroisopropyl)ether	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Bis(2-ethylhexyl)phthalate	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Butyl benzyl phthalate	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Carbazole	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Chrysene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Dibenzo(a,h)anthracene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Dibenzofuran	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Diethyl phthalate	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Dimethyl phthalate	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Di-n-butyl phthalate	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Di-n-octyl phthalate	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Dinoseb	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Diphenylamine	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Ethyl methanesulfonate	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Fluoranthene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Fluorene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Hexachlorobenzene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Hexachlorobutadiene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Hexachlorocyclopentadiene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Hexachloroethane	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Indeno(1,2,3-cd)pyrene	ND		170	µg/Kg-dry	1	5/24/2013 11:44 PM
Isophorone	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Isosafrole	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Methapyrilene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Methyl methanesulfonate	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Naphthalene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S5-0005

Lab ID: 1305449-18

Collection Date: 5/20/2013 05:35 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
N-Nitrosodiethylamine	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
N-Nitrosodimethylamine	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
N-Nitroso-di-n-butylamine	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
N-Nitrosodi-n-propylamine	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
N-Nitrosomethylethylamine	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
N-Nitrosomorpholine	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
N-Nitrosopiperidine	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
N-Nitrosopyrrolidine	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
o-Toluidine	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
p-Dimethylaminoazobenzene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Pentachlorobenzene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Pentachloroethane	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Pentachloronitrobenzene	ND		750	µg/Kg-dry	1	5/24/2013 11:44 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	5/24/2013 11:44 PM
Phenacetin	ND		750	µg/Kg-dry	1	5/24/2013 11:44 PM
Phenanthrene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Phenol	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Pyrene	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Pyridine	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Safrole	ND		370	µg/Kg-dry	1	5/24/2013 11:44 PM
Surr: 2,4,6-Tribromophenol	66.3		18-115	%REC	1	5/24/2013 11:44 PM
Surr: 2-Fluorobiphenyl	61.5		30-116	%REC	1	5/24/2013 11:44 PM
Surr: 2-Fluorophenol	44.8		24-105	%REC	1	5/24/2013 11:44 PM
Surr: 4-Terphenyl-d14	56.3		40-127	%REC	1	5/24/2013 11:44 PM
Surr: Nitrobenzene-d5	65.5		32-106	%REC	1	5/24/2013 11:44 PM
Surr: Phenol-d5	51.7		39-123	%REC	1	5/24/2013 11:44 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/22/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
1,1,1-Trichloroethane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
1,1,2,2-Tetrachloroethane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
1,1,2-Trichloroethane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
1,1-Dichloroethane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
1,1-Dichloroethene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
1,1-Dichloropropene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
1,2,3-Trichlorobenzene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
1,2,3-Trichloropropane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
1,2,4-Trichlorobenzene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
1,2,4-Trimethylbenzene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
1,2-Dibromo-3-chloropropane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S5-0005

Lab ID: 1305449-18

Collection Date: 5/20/2013 05:35 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
1,2-Dichlorobenzene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
1,2-Dichloroethane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
1,2-Dichloropropane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
1,3,5-Trimethylbenzene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
1,3-Dichlorobenzene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
1,3-Dichloropropane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
1,4-Dichlorobenzene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
2,2-Dichloropropane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
2-Butanone	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
2-Chlorotoluene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
2-Hexanone	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
4-Chlorotoluene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
4-Methyl-2-pentanone	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Acetone	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Benzene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Bromobenzene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Bromochloromethane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Bromodichloromethane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Bromoform	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Bromomethane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Carbon disulfide	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Carbon tetrachloride	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Chlorobenzene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Chloroethane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Chloroform	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Chloromethane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
cis-1,2-Dichloroethene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
cis-1,3-Dichloropropene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Dibromochloromethane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Dibromomethane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Dichlorodifluoromethane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Ethylbenzene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Hexachlorobutadiene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Isopropylbenzene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
m,p-Xylene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Methyl tert-butyl ether	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Methylene chloride	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Naphthalene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
n-Butylbenzene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S5-0005

Lab ID: 1305449-18

Collection Date: 5/20/2013 05:35 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
o-Xylene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
p-Isopropyltoluene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
sec-Butylbenzene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Styrene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
tert-Butylbenzene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Tetrachloroethene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Toluene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
trans-1,2-Dichloroethene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
trans-1,3-Dichloropropene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Trichloroethene	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Trichlorofluoromethane	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Vinyl chloride	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Xylenes, Total	ND		4.1	µg/Kg-dry	1	5/24/2013 02:19 PM
Surr: 4-Bromofluorobenzene	110		62.7-159	%REC	1	5/24/2013 02:19 PM
Surr: Dibromofluoromethane	97.4		88.2-133	%REC	1	5/24/2013 02:19 PM
Surr: Toluene-d8	95.1		81.5-110	%REC	1	5/24/2013 02:19 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S5-0506

Lab ID: 1305449-19

Collection Date: 5/20/2013 05:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/22/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	93.6		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	84.8		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	13		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S5-0608

Lab ID: 1305449-20

Collection Date: 5/20/2013 05:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	82.8		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	79.4		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	12		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S5-0810

Lab ID: 1305449-21

Collection Date: 5/20/2013 05:58 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	82.0		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	90.2		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	12		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S13-0002

Lab ID: 1305449-22

Collection Date: 5/20/2013 03:49 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	81.8		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	80.6		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	15		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S13-0204

Lab ID: 1305449-23

Collection Date: 5/20/2013 03:52 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	87.2		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	82.2		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	14		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S13-0406

Lab ID: 1305449-24

Collection Date: 5/20/2013 03:55 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	79.4		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	79.0		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	16		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S13-067.5

Lab ID: 1305449-25

Collection Date: 5/20/2013 04:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	78.8		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	78.6		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	14		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: IA#1 S13-0810

Lab ID: 1305449-26

Collection Date: 5/20/2013 05:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.10	mg/Kg-dry	1	5/23/2013
Aroclor 1221	ND		0.20	mg/Kg-dry	1	5/23/2013
Aroclor 1232	ND		0.10	mg/Kg-dry	1	5/23/2013
Aroclor 1242	ND		0.10	mg/Kg-dry	1	5/23/2013
Aroclor 1248	ND		0.10	mg/Kg-dry	1	5/23/2013
Aroclor 1254	ND		0.10	mg/Kg-dry	1	5/23/2013
Aroclor 1260	ND		0.10	mg/Kg-dry	1	5/23/2013
Surr: Decachlorobiphenyl	81.2		22-156	%REC	1	5/23/2013
Surr: Tetrachloro-m-xylene	78.0		34-145	%REC	1	5/23/2013
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	2.8		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: TB-052013

Lab ID: 1305449-27

Collection Date: 5/20/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: LAK
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	5/22/2013 11:53 AM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	5/22/2013 11:53 AM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	5/22/2013 11:53 AM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	5/22/2013 11:53 AM
1,1-Dichloroethane	ND		5.0	µg/L	1	5/22/2013 11:53 AM
1,1-Dichloroethene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
1,1-Dichloropropene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	5/22/2013 11:53 AM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	5/22/2013 11:53 AM
1,2-Dibromoethane	ND		5.0	µg/L	1	5/22/2013 11:53 AM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
1,2-Dichloroethane	ND		5.0	µg/L	1	5/22/2013 11:53 AM
1,2-Dichloropropane	ND		5.0	µg/L	1	5/22/2013 11:53 AM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
1,3-Dichloropropane	ND		5.0	µg/L	1	5/22/2013 11:53 AM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
2,2-Dichloropropane	ND		5.0	µg/L	1	5/22/2013 11:53 AM
2-Butanone	ND		5.0	µg/L	1	5/22/2013 11:53 AM
2-Chlorotoluene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
2-Hexanone	ND		5.0	µg/L	1	5/22/2013 11:53 AM
4-Chlorotoluene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Acetone	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Benzene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Bromobenzene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Bromochloromethane	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Bromodichloromethane	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Bromoform	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Bromomethane	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Carbon disulfide	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Carbon tetrachloride	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Chlorobenzene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Chloroethane	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Chloroform	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Chloromethane	ND		5.0	µg/L	1	5/22/2013 11:53 AM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305449

Sample ID: TB-052013

Lab ID: 1305449-27

Collection Date: 5/20/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Dibromochloromethane	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Dibromomethane	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Dichlorodifluoromethane	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Ethylbenzene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Hexachlorobutadiene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Isopropylbenzene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
m,p-Xylene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Methyl tert-butyl ether	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Methylene chloride	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Naphthalene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
n-Butylbenzene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
n-Propylbenzene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
o-Xylene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
p-Isopropyltoluene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
sec-Butylbenzene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Styrene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
tert-Butylbenzene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Tetrachloroethene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Toluene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Trichloroethene	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Trichlorofluoromethane	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Vinyl chloride	ND		2.0	µg/L	1	5/22/2013 11:53 AM
Xylenes, Total	ND		5.0	µg/L	1	5/22/2013 11:53 AM
Surr: 4-Bromofluorobenzene	95.6		61-131	%REC	1	5/22/2013 11:53 AM
Surr: Dibromofluoromethane	99.2		87-126	%REC	1	5/22/2013 11:53 AM
Surr: Toluene-d8	102		84-111	%REC	1	5/22/2013 11:53 AM

Note:

Client: AECOM

QC BATCH REPORT

Work Order: 1305449

Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

Batch ID: 16773

Instrument ID: GC9

Method: SW8082

MBLK		Sample ID: MBLK-16773-16773			Units: mg/Kg		Analysis Date: 5/23/2013			
Client ID:		Run ID: GC9_130523B			SeqNo: 615663		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.05	0	0.05	0	100	22-156	0			
Surr: Tetrachloro-m-xylene	0.0442	0	0.05	0	88.4	34-145	0			

LCS		Sample ID: LCS-16773-16773			Units: mg/Kg		Analysis Date: 5/23/2013			
Client ID:		Run ID: GC9_130523B			SeqNo: 615664		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.105	0.10	2	0	105	50-133	0			
Surr: Decachlorobiphenyl	0.0502	0	0.05	0	100	22-156	0			
Surr: Tetrachloro-m-xylene	0.0442	0	0.05	0	88.4	34-145	0			

MS		Sample ID: 1305449-04Ams			Units: mg/Kg		Analysis Date: 5/23/2013			
Client ID: IA#1 S1-0607.8		Run ID: GC9_130523B			SeqNo: 615670		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.977	0.10	1.996	0	99	31-150	0			
Surr: Decachlorobiphenyl	0.0479	0	0.0499	0	96	22-156	0			
Surr: Tetrachloro-m-xylene	0.04192	0	0.0499	0	84	34-145	0			

MSD		Sample ID: 1305449-04Amsd			Units: mg/Kg		Analysis Date: 5/23/2013			
Client ID: IA#1 S1-0607.8		Run ID: GC9_130523B			SeqNo: 615671		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.921	0.099	1.984	0	96.8	31-150	1.977	2.85	53	
Surr: Decachlorobiphenyl	0.04782	0	0.0496	0	96.4	22-156	0.0479	0.181		
Surr: Tetrachloro-m-xylene	0.04841	0	0.0496	0	97.6	34-145	0.04192	14.4		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305449
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16773** Instrument ID: **GC9** Method: **SW8082**

The following samples were analyzed in this batch:

1305449-01D	1305449-02A	1305449-03A
1305449-04A	1305449-05A	1305449-06A
1305449-07A	1305449-08A	1305449-09A
1305449-10D	1305449-11A	1305449-12A
1305449-13A	1305449-14A	1305449-15A
1305449-16A	1305449-17A	1305449-18D
1305449-19A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305449
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16802 Instrument ID: GC9 Method: SW8082

MBLK		Sample ID: MBLK-16802-16802			Units: mg/Kg		Analysis Date: 5/24/2013			
Client ID:		Run ID: GC9_130524A			SeqNo: 615473		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.0828	0	0.1	0	82.8	22-156	0			
Surr: Tetrachloro-m-xylene	0.0842	0	0.1	0	84.2	34-145	0			

LCS		Sample ID: LCS-16802-16802			Units: mg/Kg		Analysis Date: 5/24/2013			
Client ID:		Run ID: GC9_130524A			SeqNo: 615474		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.04	0.10	2	0	102	50-133	0			
Surr: Decachlorobiphenyl	0.0852	0	0.1	0	85.2	22-156	0			
Surr: Tetrachloro-m-xylene	0.0814	0	0.1	0	81.4	34-145	0			

MS		Sample ID: 1305415-01Cms			Units: mg/Kg		Analysis Date: 5/24/2013			
Client ID:		Run ID: GC9_130524A			SeqNo: 615476		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.547	0.099	1.976	0	129	31-150	0			
Surr: Decachlorobiphenyl	0.08478	0	0.09881	0	85.8	22-156	0			
Surr: Tetrachloro-m-xylene	0.07925	0	0.09881	0	80.2	34-145	0			

MSD		Sample ID: 1305415-01Cmsd			Units: mg/Kg		Analysis Date: 5/24/2013			
Client ID:		Run ID: GC9_130524A			SeqNo: 615477		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.01	0.099	1.988	0	101	31-150	2.547	23.6	53	
Surr: Decachlorobiphenyl	0.0835	0	0.0994	0	84	22-156	0.08478	1.53		
Surr: Tetrachloro-m-xylene	0.07793	0	0.0994	0	78.4	34-145	0.07925	1.68		

The following samples were analyzed in this batch:

1305449-20A	1305449-21A	1305449-22A
1305449-23A	1305449-24A	1305449-25A
1305449-26A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305449
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16797 Instrument ID: HG1 Method: SW7471A

MBLK	Sample ID: MBLK-16797-16797					Units: mg/Kg	Analysis Date: 5/28/2013 01:33 PM			
Client ID:	Run ID: HG1_130528A					SeqNo: 615857	Prep Date: 5/23/2013	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.30

LCS	Sample ID: LCS-16797-16797					Units: mg/Kg	Analysis Date: 5/28/2013 01:29 PM			
Client ID:	Run ID: HG1_130528A					SeqNo: 615855	Prep Date: 5/23/2013	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 1.149 0.30 1.109 0 104 69-147 0

LCSD	Sample ID: LCSD-16797-16797					Units: mg/Kg	Analysis Date: 5/28/2013 01:31 PM			
Client ID:	Run ID: HG1_130528A					SeqNo: 615856	Prep Date: 5/23/2013	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 1.168 0.29 1.09 0 107 69-147 1.149 1.64 20

MS	Sample ID: 1305449-01D MS					Units: mg/Kg	Analysis Date: 5/28/2013 01:37 PM			
Client ID: IA#1 S1-0002	Run ID: HG1_130528A					SeqNo: 615859	Prep Date: 5/23/2013	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.8443 0.29 0.8007 0.03326 101 69-147 0

MSD	Sample ID: 1305449-01D MSD					Units: mg/Kg	Analysis Date: 5/28/2013 01:39 PM			
Client ID: IA#1 S1-0002	Run ID: HG1_130528A					SeqNo: 615860	Prep Date: 5/23/2013	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.8156 0.28 0.7824 0.03326 100 69-147 0.8443 3.46 20

The following samples were analyzed in this batch: 1305449-01D 1305449-10D 1305449-18D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305449
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16769** Instrument ID: **ICP3** Method: **SW6010B**

MBLK		Sample ID: MBLK-16769-16769			Units: mg/Kg		Analysis Date: 5/22/2013 01:46 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 612982		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500								
Antimony	ND	3.0								
Arsenic	ND	5.0								
Barium	ND	10								
Beryllium	ND	0.50								
Cadmium	ND	1.0								
Calcium	ND	500								
Chromium	ND	2.0								
Cobalt	ND	5.0								
Copper	ND	5.0								
Iron	ND	100								
Lead	ND	5.0								
Magnesium	ND	100								
Manganese	ND	5.0								
Nickel	ND	5.0								
Potassium	ND	500								
Selenium	ND	3.0								
Silver	ND	1.0								
Sodium	ND	500								
Thallium	ND	3.0								
Vanadium	ND	5.0								
Zinc	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305449
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16769** Instrument ID: **ICP3** Method: **SW6010B**

LCS		Sample ID: LCS-16769-16769			Units: mg/Kg		Analysis Date: 5/22/2013 01:52 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 612983		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500	100	0	110	80-120	0			
Antimony	84.65	3.0	100	0	84.6	80-120	0			
Arsenic	89.49	5.0	100	0	89.5	80-120	0			
Barium	92.93	10	100	0	92.9	80-120	0			
Beryllium	93.92	0.50	100	0	93.9	80-120	0			
Cadmium	91.59	1.0	100	0	91.6	80-120	0			
Calcium	ND	500	100	0	96.4	80-120	0			
Chromium	95.54	2.0	100	0	95.5	80-120	0			
Cobalt	89.11	5.0	100	0	89.1	80-120	0			
Copper	93.13	5.0	100	0	93.1	80-120	0			
Iron	ND	100	100	0	98.2	80-120	0			
Lead	92.53	5.0	100	0	92.5	80-120	0			
Magnesium	ND	100	100	0	94.8	80-120	0			
Manganese	93.1	5.0	100	0	93.1	80-120	0			
Nickel	86.69	5.0	100	0	86.7	80-120	0			
Potassium	991.1	500	1000	0	99.1	80-120	0			
Selenium	92.45	3.0	100	0	92.4	80-120	0			
Silver	97.59	1.0	100	0	97.6	80-120	0			
Sodium	ND	500	100	0	96.2	80-120	0			
Thallium	86.45	3.0	100	0	86.4	80-120	0			
Vanadium	92.85	5.0	100	0	92.8	80-120	0			
Zinc	86.76	5.0	100	0	86.8	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305449
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16769 Instrument ID: ICP3 Method: SW6010B

LCSD		Sample ID: LCSD-16769-16769			Units: mg/Kg		Analysis Date: 5/22/2013 02:11 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 612984		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500	100	0	105	80-120	93.58	0	20	
Antimony	96.24	3.0	100	0	96.2	80-120	92.76	0	20	
Arsenic	100.2	5.0	100	0	100	80-120	96.22	0	20	
Barium	103.9	10	100	0	104	80-120	101.3	0	20	
Beryllium	95.09	0.50	100	0	95.1	80-120	89.59	0	20	
Cadmium	101.5	1.0	100	0	102	80-120	98.85	0	20	
Calcium	ND	500	100	0	96.5	80-120	95	0	20	
Chromium	100.2	2.0	100	0	100	80-120	97.77	0	20	
Cobalt	98.39	5.0	100	0	98.4	80-120	96.29	0	20	
Copper	97.87	5.0	100	0	97.9	80-120	95.07	0	20	
Iron	ND	100	100	0	99.8	80-120	93.92	0	20	
Lead	103.6	5.0	100	0	104	80-120	100.4	0	20	
Magnesium	ND	100	100	0	96.2	80-120	88.3	0	20	
Manganese	95.57	5.0	100	0	95.6	80-120	88.59	0	20	
Nickel	97.53	5.0	100	0	97.5	80-120	94.54	0	20	
Potassium	992.7	500	1000	0	99.3	80-120	940.5	0	20	
Selenium	102.3	3.0	100	0	102	80-120	98.44	0	20	
Silver	101.1	1.0	100	0	101	80-120	99.04	0	20	
Sodium	ND	500	100	0	99.8	80-120	97.98	0	20	
Thallium	96.6	3.0	100	0	96.6	80-120	92.98	0	20	
Vanadium	93.83	5.0	100	0	93.8	80-120	88.41	0	20	
Zinc	98.43	5.0	100	0	98.4	80-120	95.04	0	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305449
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16769** Instrument ID: **ICP3** Method: **SW6010B**

MS		Sample ID: 1305447-03b ms			Units: mg/Kg		Analysis Date: 5/22/2013 02:35 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 612988		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	2175	500	99.46	0	2190	80-120	0			S
Antimony	84.81	3.0	99.46	0	85.3	75-125	0			
Arsenic	94.41	5.0	99.46	0	94.9	75-125	0			
Barium	93.45	9.9	99.46	0	94	75-125	0			
Beryllium	90.11	0.50	99.46	0	90.6	75-125	0			
Cadmium	94.94	0.99	99.46	0	95.4	75-125	0			
Calcium	79260	990	99.46	0	79700	75-125	0			SE
Chromium	88.78	2.0	99.46	0	89.3	75-125	0			
Cobalt	80.47	5.0	99.46	0	80.9	75-125	0			
Copper	91.25	5.0	99.46	0	91.7	75-125	0			
Iron	6625	99	99.46	0	6660	75-125	0			S
Lead	83.47	5.0	99.46	0	83.9	75-125	0			
Magnesium	22580	99	99.46	0	22700	75-125	0			S
Manganese	408.3	5.0	99.46	0	410	75-125	0			S
Nickel	82.31	5.0	99.46	0	82.8	75-125	0			
Potassium	1332	500	99.46	0	134	75-125	0			S
Selenium	90.25	3.0	99.46	0	90.7	75-125	0			
Silver	92.39	0.99	99.46	0	92.9	75-125	0			
Sodium	ND	500	99.46	0	207	75-125	0			S
Thallium	71.45	3.0	99.46	0	71.8	75-125	0			S
Vanadium	98.71	5.0	99.46	0	99.2	75-125	0			
Zinc	106.7	5.0	99.46	0	107	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305449
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16769** Instrument ID: **ICP3** Method: **SW6010B**

MSD		Sample ID: 1305447-03b msd			Units: mg/Kg		Analysis Date: 5/22/2013 02:42 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 612989		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	2864	500	99.48	0	2880	75-125	0	0	20	S
Antimony	83.44	3.0	99.48	0	83.9	75-125	0	0	20	
Arsenic	93.58	5.0	99.48	0	94.1	75-125	0	0	20	
Barium	93.22	9.9	99.48	0	93.7	75-125	0	0	20	
Beryllium	88.22	0.50	99.48	0	88.7	75-125	0	0	20	
Cadmium	92.98	0.99	99.48	0	93.5	75-125	0	0	20	
Calcium	90600	990	99.48	0	91100	75-125	0	0	20	SE
Chromium	87.9	2.0	99.48	0	88.4	75-125	0	0	20	
Cobalt	78.33	5.0	99.48	0	78.7	75-125	0	0	20	
Copper	87.96	5.0	99.48	0	88.4	75-125	0	0	20	
Iron	6967	99	99.48	0	7000	75-125	0	0	20	S
Lead	81.3	5.0	99.48	0	81.7	75-125	0	0	20	
Magnesium	31350	99	99.48	0	31500	75-125	0	0	20	S
Manganese	421.1	5.0	99.48	0	423	75-125	0	0	20	S
Nickel	80.52	5.0	99.48	0	80.9	75-125	0	0	20	
Potassium	1272	500	99.48	0	128	75-125	0	0	20	S
Selenium	89.56	3.0	99.48	0	90	75-125	0	0	20	
Silver	91.14	0.99	99.48	0	91.6	75-125	0	0	20	
Sodium	ND	500	99.48	0	266	75-125	0	0	20	S
Thallium	69.54	3.0	99.48	0	69.9	75-125	0	0	20	S
Vanadium	95.72	5.0	99.48	0	96.2	75-125	0	0	20	
Zinc	105.9	5.0	99.48	0	106	75-125	0	0	20	

The following samples were analyzed in this batch:

1305449-01D	1305449-10D	1305449-18D
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305449
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99798r** Instrument ID: **SUB** Method: **SW8081A**

MBLK		Sample ID: MBLK-R99798r			Units: µg/Kg		Analysis Date: 5/31/2013 01:34 PM			
Client ID:		Run ID: SUB_130531I			SeqNo: 626953		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	1.6								
4,4'-DDE	ND	1.6								
4,4'-DDT	ND	1.6								
Aldrin	ND	1.6								
alpha-BHC	ND	1.6								
alpha-Chlordane	ND	1.6								
beta-BHC	ND	1.6								
delta-BHC	ND	1.6								
Dieldrin	ND	1.6								
Endosulfan I	ND	1.6								
Endosulfan II	ND	1.6								
Endosulfan sulfate	ND	1.6								
Endrin	ND	1.6								
Endrin aldehyde	ND	1.6								
Endrin ketone	ND	1.6								
gamma-BHC (Lindane)	ND	1.6								
gamma-Chlordane	ND	1.6								
Heptachlor	ND	1.6								
Heptachlor epoxide	ND	1.6								
Methoxychlor	ND	1.6								
Toxaphene	ND	33								
<i>Surr: Decachlorobiphenyl</i>	85.1	0	100	0	85.1	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	55.2	0	100	0	55.2	39-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305449
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99798r** Instrument ID: **SUB** Method: **SW8081A**

LCS		Sample ID: LCS-R99798r			Units: µg/Kg		Analysis Date: 5/31/2013 02:02 PM			
Client ID:		Run ID: SUB_130531I			SeqNo: 626954		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	12.6	1.6	16.7	0	75.4	60-110	0			
4,4'-DDE	12.8	1.6	16.7	0	76.6	55-110	0			
4,4'-DDT	14	1.6	16.7	0	83.8	60-115	0			
Aldrin	12.5	1.6	16.7	0	74.9	50-100	0			
alpha-BHC	11.4	1.6	16.7	0	68.3	60-100	0			
alpha-Chlordane	13.7	1.6	16.7	0	82	55-105	0			
beta-BHC	12.7	1.6	16.7	0	76	50-100	0			
delta-BHC	12	1.6	16.7	0	71.9	50-110	0			
Dieldrin	12.7	1.6	16.7	0	76	60-110	0			
Endosulfan I	10.1	1.6	16.7	0	60.5	40-100	0			
Endosulfan II	10.5	1.6	16.7	0	62.9	40-100	0			
Endosulfan sulfate	14.9	1.6	16.7	0	89.2	45-115	0			
Endrin	11.9	1.6	16.7	0	71.3	55-100	0			
Endrin aldehyde	11.7	1.6	16.7	0	70.1	45-110	0			
Endrin ketone	13.4	1.6	16.7	0	80.2	55-115	0			
gamma-BHC (Lindane)	11.5	1.6	16.7	0	68.9	50-100	0			
gamma-Chlordane	13.5	1.6	16.7	0	80.8	50-110	0			
Heptachlor	13.7	1.6	16.7	0	82	50-105	0			
Heptachlor epoxide	13.8	1.6	16.7	0	82.6	55-105	0			
Methoxychlor	15.3	1.6	16.7	0	91.6	60-125	0			
<i>Surr: Decachlorobiphenyl</i>	94.6	0	100	0	94.6	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	64.3	0	100	0	64.3	39-130	0			

LCS		Sample ID: LCS-R99798r			Units: µg/Kg		Analysis Date: 5/31/2013 02:30 PM			
Client ID:		Run ID: SUB_130531I			SeqNo: 626958		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Toxaphene	47.3	33	66.7	0	70.9	25-138	0			
<i>Surr: Decachlorobiphenyl</i>	76	0	100	0	76	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	48	0	100	0	48	39-130	0			

The following samples were analyzed in this batch: 1305449-01C 1305449-10C 1305449-18C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305449
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99798s** Instrument ID: **SUB** Method: **SW8151**

MBLK		Sample ID: MBLK-R99798s			Units: µg/Kg		Analysis Date: 6/3/2013 05:22 PM			
Client ID:		Run ID: SUB_130531I			SeqNo: 626959		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	ND	4.0								
2,4,5-TP (Silvex)	ND	3.0								
2,4-D	ND	40								
2,4-DB	ND	40								
Dalapon	ND	100								
Dicamba	ND	4.0								
Dichlorprop	ND	40								
Dinoseb	ND	20								
MCPA	ND	4,000								
MCPD	ND	4,000								
Pentachlorophenol	ND	4.0								
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	91.8	0	100	0	91.8	25-110	0			

LCS		Sample ID: LCS-R99798s			Units: µg/Kg		Analysis Date: 6/3/2013 05:47 PM			
Client ID:		Run ID: SUB_130531I			SeqNo: 626960		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	7.45	4.0	10	0	74.5	25-120	0			
2,4,5-TP (Silvex)	6.88	3.0	10	0	68.8	30-125	0			
2,4-D	56.8	40	100	0	56.8	15-120	0			
2,4-DB	715	40	100	0	715	20-125	0			S
Dalapon	135	100	250	0	54	10-105	0			
Dicamba	9.67	4.0	10	0	96.7	45-150	0			
Dichlorprop	74.8	40	100	0	74.8	20-130	0			
Dinoseb	33.7	20	50	0	67.4	25-125	0			
MCPA	5960	4,000	10000	0	59.6	10-120	0			
MCPD	5980	4,000	10000	0	59.8	10-130	0			
Pentachlorophenol	5.52	4.0	10	0	55.2	30-110	0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	96.4	0	100	0	96.4	20-144	0			

The following samples were analyzed in this batch:

1305449-01B	1305449-10B	1305449-18B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305449
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID: SVMS2 Method: SW8270C

MBLK		Sample ID: MBLK-16817-16817			Units: µg/Kg		Analysis Date: 5/24/2013 07:10 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615805		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	330								
1,2,4-Trichlorobenzene	ND	330								
1,2-Dichlorobenzene	ND	330								
1,3-Dichlorobenzene	ND	330								
1,3-Dinitrobenzene	ND	330								
1,4-Dichlorobenzene	ND	330								
1-Methylnaphthalene	ND	330								
1-Naphthylamine	ND	330								
2,3,4,6-Tetrachlorophenol	ND	330								
2,4,5-Trichlorophenol	ND	330								
2,4,6-Trichlorophenol	ND	330								
2,4-Dichlorophenol	ND	330								
2,4-Dimethylphenol	ND	330								
2,4-Dinitrophenol	ND	1,600								
2,4-Dinitrotoluene	ND	330								
2,6-Dichlorophenol	ND	330								
2,6-Dinitrotoluene	ND	330								
2-Acetylaminofluorene	ND	330								
2-Chloronaphthalene	ND	330								
2-Chlorophenol	ND	330								
2-Methylnaphthalene	ND	330								
2-Methylphenol	ND	330								
2-Naphthylamine	ND	330								
2-Nitroaniline	ND	1,600								
2-Nitrophenol	ND	330								
2-Picoline	ND	330								
3&4-Methylphenol	ND	330								
3,3'-Dichlorobenzidine	ND	660								
3-Methylcholanthrene	ND	330								
3-Nitroaniline	ND	1,600								
4,6-Dinitro-2-methylphenol	ND	1,600								
4-Aminobiphenyl	ND	660								
4-Bromophenyl phenyl ether	ND	330								
4-Chloro-3-methylphenol	ND	660								
4-Chloroaniline	ND	660								
4-Chlorophenyl phenyl ether	ND	330								
4-Nitroaniline	ND	660								
4-Nitrophenol	ND	1,600								
4-Nitroquinoline 1-oxide	ND	330								
5-Nitro-o-toluidine	ND	330								
7,12-Dimethylbenz(a)anthracene	ND	330								
Acenaphthene	ND	330								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305449
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817	Instrument ID: SVMS2	Method: SW8270C
Acenaphthylene	ND	330
Acetophenone	ND	330
Aniline	ND	330
Anthracene	ND	330
Azobenzene	ND	330
Benzidine	ND	330
Benzo(a)anthracene	ND	330
Benzo(a)pyrene	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(g,h,i)perylene	ND	330
Benzo(k)fluoranthene	ND	330
Benzyl alcohol	ND	660
Bis(2-chloroethoxy)methane	ND	330
Bis(2-chloroethyl)ether	ND	330
Bis(2-chloroisopropyl)ether	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Butyl benzyl phthalate	ND	330
Carbazole	ND	330
Chrysene	ND	330
Dibenzo(a,h)anthracene	ND	330
Dibenzofuran	ND	330
Diethyl phthalate	ND	330
Dimethyl phthalate	ND	330
Di-n-butyl phthalate	ND	330
Di-n-octyl phthalate	ND	330
Dinoseb	ND	330
Diphenylamine	ND	330
Ethyl methanesulfonate	ND	330
Fluoranthene	ND	330
Fluorene	ND	330
Hexachlorobenzene	ND	330
Hexachlorobutadiene	ND	330
Hexachlorocyclopentadiene	ND	330
Hexachloroethane	ND	330
Indeno(1,2,3-cd)pyrene	ND	150
Isophorone	ND	330
Isosafrole	ND	330
Methapyrilene	ND	330
Methyl methanesulfonate	ND	330
Naphthalene	ND	330
Nitrobenzene	ND	330
N-Nitrosodiethylamine	ND	330
N-Nitrosodimethylamine	ND	330
N-Nitroso-di-n-butylamine	ND	330
N-Nitrosodi-n-propylamine	ND	330
N-Nitrosomethylethylamine	ND	330
N-Nitrosomorpholine	ND	330
N-Nitrosopiperidine	ND	330

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305449
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817	Instrument ID: SVMS2	Method: SW8270C					
N-Nitrosopyrrolidine	ND	330					
o-Toluidine	ND	330					
p-Dimethylaminoazobenzene	ND	330					
Pentachlorobenzene	ND	330					
Pentachloroethane	ND	330					
Pentachloronitrobenzene	ND	660					
Pentachlorophenol	ND	1,600					
Phenacetin	ND	660					
Phenanthrene	ND	330					
Phenol	ND	330					
Pyrene	ND	330					
Pyridine	ND	330					
Safrole	ND	330					
<i>Surr: 2,4,6-Tribromophenol</i>	2682	0	3330	0	80.6	18-115	0
<i>Surr: 2-Fluorobiphenyl</i>	1329	0	1670	0	79.6	30-116	0
<i>Surr: 2-Fluorophenol</i>	1905	0	3330	0	57.2	24-105	0
<i>Surr: 4-Terphenyl-d14</i>	1212	0	1670	0	72.6	40-127	0
<i>Surr: Nitrobenzene-d5</i>	1542	0	1670	0	92.3	32-106	0
<i>Surr: Phenol-d5</i>	2333	0	3330	0	70.1	39-123	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305449
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID: SVMS2 Method: SW8270C

LCS		Sample ID: LCS-16817-16817			Units: µg/Kg		Analysis Date: 5/24/2013 07:45 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615806		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1214	330	1670	0	72.7	48.1-106	0			
1,4-Dichlorobenzene	1167	330	1670	0	69.9	55.5-89.4	0			
2,4-Dinitrotoluene	1486	330	1670	0	89	58.8-123	0			
2-Chlorophenol	1140	330	1670	0	68.3	34.7-116	0			
4-Chloro-3-methylphenol	1449	660	1670	0	86.8	32.1-109	0			
4-Nitrophenol	ND	1,600	1670	0	74.9	36.2-146	0			
Acenaphthene	1263	330	1670	0	75.6	67.8-104	0			
Acenaphthylene	1222	330	1670	0	73.2	65.6-103	0			
Anthracene	1317	330	1670	0	78.8	71.1-107	0			
Benzo(a)anthracene	1365	330	1670	0	81.7	60.4-118	0			
Benzo(a)pyrene	1536	330	1670	0	92	73.7-110	0			
Benzo(b)fluoranthene	1475	330	1670	0	88.3	59.9-94.8	0			
Benzo(g,h,i)perylene	1355	330	1670	0	81.2	40-129	0			
Benzo(k)fluoranthene	1412	330	1670	0	84.5	75.7-130	0			
Carbazole	1699	330	1670	0	102	69.6-107	0			
Chrysene	1429	330	1670	0	85.6	62.3-115	0			
Dibenzo(a,h)anthracene	1282	330	1670	0	76.8	59.2-121	0			
Fluoranthene	1436	330	1670	0	86	63-120	0			
Fluorene	1265	330	1670	0	75.7	69-106	0			
Indeno(1,2,3-cd)pyrene	1284	150	1670	0	76.9	59-110	0			
Naphthalene	1205	330	1670	0	72.2	49.1-103	0			
N-Nitrosodi-n-propylamine	1352	330	1670	0	80.9	25.3-127	0			
Pentachlorophenol	1621	1,600	1670	0	97.1	22.1-105	0			
Phenanthrene	1342	330	1670	0	80.3	70-112	0			
Phenol	1147	330	1670	0	68.7	36.9-97.8	0			
Pyrene	1344	330	1670	0	80.5	55-117	0			
Surr: 2,4,6-Tribromophenol	2259	0	3330	0	67.8	18-115	0			
Surr: 2-Fluorobiphenyl	1156	0	1670	0	69.2	30-116	0			
Surr: 2-Fluorophenol	1944	0	3330	0	58.4	24-105	0			
Surr: 4-Terphenyl-d14	1130	0	1670	0	67.7	40-127	0			
Surr: Nitrobenzene-d5	1177	0	1670	0	70.5	32-106	0			
Surr: Phenol-d5	2183	0	3330	0	65.6	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305449
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID: SVMS2 Method: SW8270C

MS		Sample ID: ms 1305471-02b			Units: µg/Kg		Analysis Date: 5/24/2013 08:19 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615807		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1209	330	1669	0	72.4	50.6-92	0			
1,4-Dichlorobenzene	1132	330	1669	0	67.8	40.1-84.3	0			
2,4-Dinitrotoluene	1406	330	1669	0	84.2	50.3-127	0			
2-Chlorophenol	1107	330	1669	0	66.3	33.3-109	0			
4-Chloro-3-methylphenol	1449	660	1669	0	86.8	35.8-116	0			
4-Nitrophenol	ND	1,600	1669	0	92.5	38.7-135	0			
Acenaphthene	1237	330	1669	0	74.1	54.1-109	0			
Acenaphthylene	1214	330	1669	0	72.7	55.3-118	0			
Anthracene	1280	330	1669	0	76.7	51-106	0			
Benzo(a)anthracene	1287	330	1669	0	77.1	31.6-128	0			
Benzo(a)pyrene	1465	330	1669	0	87.8	66.1-109	0			
Benzo(b)fluoranthene	1431	330	1669	0	85.7	56.8-87.8	0			
Benzo(g,h,i)perylene	1411	330	1669	0	84.5	37.7-113	0			
Benzo(k)fluoranthene	1412	330	1669	0	84.6	57-119	0			
Carbazole	1749	330	1669	0	105	28.5-114	0			
Chrysene	1329	330	1669	0	79.6	46.3-104	0			
Dibenzo(a,h)anthracene	1271	330	1669	0	76.1	48.8-123	0			
Fluoranthene	1354	330	1669	0	81.1	52-120	0			
Fluorene	1261	330	1669	0	75.5	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1252	150	1669	0	75	56.1-118	0			
Naphthalene	1199	330	1669	0	71.8	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1359	330	1669	0	81.4	46.5-116	0			
Pentachlorophenol	1685	1,600	1669	0	101	28.9-156	0			
Phenanthrene	1284	330	1669	0	76.9	52-105	0			
Phenol	1109	330	1669	0	66.4	25.9-90.3	0			
Pyrene	1295	330	1669	0	77.6	51-111	0			
Surr: 2,4,6-Tribromophenol	2319	0	3329	0	69.7	18-115	0			
Surr: 2-Fluorobiphenyl	1191	0	1669	0	71.3	30-116	0			
Surr: 2-Fluorophenol	2114	0	3329	0	63.5	24-105	0			
Surr: 4-Terphenyl-d14	1103	0	1669	0	66.1	40-127	0			
Surr: Nitrobenzene-d5	1232	0	1669	0	73.8	32-106	0			
Surr: Phenol-d5	2272	0	3329	0	68.2	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305449
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID: SVMS2 Method: SW8270C

MSD		Sample ID: msd 1305471-02b			Units: µg/Kg		Analysis Date: 5/24/2013 08:54 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615808		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1218	330	1670	0	72.9	50.6-92	0			
1,4-Dichlorobenzene	1158	330	1670	0	69.4	40.1-84.3	0			
2,4-Dinitrotoluene	1406	330	1670	0	84.2	50.3-127	0			
2-Chlorophenol	1131	330	1670	0	67.7	33.3-109	0			
4-Chloro-3-methylphenol	1468	660	1670	0	87.9	35.8-116	0			
4-Nitrophenol	ND	1,600	1670	0	74.5	38.7-135	0			
Acenaphthene	1248	330	1670	0	74.7	54.1-109	0			
Acenaphthylene	1227	330	1670	0	73.5	55.3-118	0			
Anthracene	1272	330	1670	0	76.2	51-106	0			
Benzo(a)anthracene	1206	330	1670	0	72.2	31.6-128	0			
Benzo(a)pyrene	1456	330	1670	0	87.2	66.1-109	0			
Benzo(b)fluoranthene	1309	330	1670	0	78.4	56.8-87.8	0			
Benzo(g,h,i)perylene	1466	330	1670	0	87.8	37.7-113	0			
Benzo(k)fluoranthene	1385	330	1670	0	83	57-119	0			
Carbazole	1770	330	1670	0	106	28.5-114	0			
Chrysene	1232	330	1670	0	73.8	46.3-104	0			
Dibenzo(a,h)anthracene	1342	330	1670	0	80.4	48.8-123	0			
Fluoranthene	1328	330	1670	0	79.5	52-120	0			
Fluorene	1249	330	1670	0	74.8	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1348	150	1670	0	80.7	56.1-118	0			
Naphthalene	1212	330	1670	0	72.6	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1377	330	1670	0	82.5	46.5-116	0			
Pentachlorophenol	1607	1,600	1670	0	96.2	28.9-156	0			
Phenanthrene	1287	330	1670	0	77.1	52-105	0			
Phenol	1114	330	1670	0	66.7	25.9-90.3	0			
Pyrene	1244	330	1670	0	74.5	51-111	0			
Surr: 2,4,6-Tribromophenol	2249	0	3330	0	67.5	18-115	0			
Surr: 2-Fluorobiphenyl	1197	0	1670	0	71.7	30-116	0			
Surr: 2-Fluorophenol	2154	0	3330	0	64.7	24-105	0			
Surr: 4-Terphenyl-d14	1077	0	1670	0	64.5	40-127	0			
Surr: Nitrobenzene-d5	1250	0	1670	0	74.9	32-106	0			
Surr: Phenol-d5	2298	0	3330	0	69	39-123	0			

The following samples were analyzed in this batch:

1305449-01d	1305449-10d	1305449-18d
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305449
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99227** Instrument ID: **VMS1** Method: **SW8260**

MBLK		Sample ID: MBLK-R99227			Units: µg/L		Analysis Date: 5/22/2013 07:53 AM			
Client ID:		Run ID: VMS1_130522A			SeqNo: 612437		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305449
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99227	Instrument ID: VMS1	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	2.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	49.05	0	50	0	98.1	61-131	0
<i>Surr: Dibromofluoromethane</i>	49.07	0	50	0	98.1	87-126	0
<i>Surr: Toluene-d8</i>	49.91	0	50	0	99.8	84-111	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305449
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99227** Instrument ID: **VMS1** Method: **SW8260**

LCS		Sample ID: LCS-R99227			Units: µg/L		Analysis Date: 5/22/2013 08:23 AM			
Client ID:		Run ID: VMS1_130522A			SeqNo: 612438		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	42.6	5.0	50	0	85.2	48.4-140	0			
1,1-Dichloroethene	43.52	5.0	50	0	87	45.5-150	0			
1,2-Dichloroethane	42.9	5.0	50	0	85.8	46.5-141	0			
1,3-Dichlorobenzene	41.39	5.0	50	0	82.8	42.5-133	0			
1,4-Dichlorobenzene	41.07	5.0	50	0	82.1	38.9-136	0			
Benzene	43.39	5.0	50	0	86.8	50.7-134	0			
Carbon tetrachloride	44.08	5.0	50	0	88.2	45.5-143	0			
Chlorobenzene	42.52	5.0	50	0	85	45-133	0			
Chloroform	43.02	5.0	50	0	86	52.4-136	0			
cis-1,2-Dichloroethene	41.21	5.0	50	0	82.4	49.7-138	0			
Ethylbenzene	42.16	5.0	50	0	84.3	37.8-145	0			
m,p-Xylene	86.09	5.0	100	0	86.1	25.1-163	0			
Styrene	46.12	5.0	50	0	92.2	26.3-172	0			
Tetrachloroethene	40.63	5.0	50	0	81.3	37.3-139	0			
Toluene	42.64	5.0	50	0	85.3	44-135	0			
Trichloroethene	42.71	5.0	50	0	85.4	46.9-134	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.46	0	50	0	98.9	61-131	0			
<i>Surr: Dibromofluoromethane</i>	51.32	0	50	0	103	87-126	0			
<i>Surr: Toluene-d8</i>	51.08	0	50	0	102	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305449
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99227** Instrument ID: **VMS1** Method: **SW8260**

MS		Sample ID: 1305420-04A MS			Units: µg/L		Analysis Date: 5/22/2013 10:23 AM			
Client ID:		Run ID: VMS1_130522A			SeqNo: 613315		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	47.09	5.0	50	0	94.2	47.4-141	0			
1,1-Dichloroethene	47.91	5.0	50	0	95.8	56.3-140	0			
1,2-Dichloroethane	47.1	5.0	50	0	94.2	50.1-139	0			
1,3-Dichlorobenzene	43.16	5.0	50	0	86.3	53-127	0			
1,4-Dichlorobenzene	41.99	5.0	50	0	84	53.4-129	0			
Benzene	46.51	5.0	50	0	93	52.8-136	0			
Carbon tetrachloride	48.75	5.0	50	0	97.5	48.1-141	0			
Chlorobenzene	45.02	5.0	50	0	90	52.4-132	0			
Chloroform	45.81	5.0	50	0	91.6	52.9-136	0			
cis-1,2-Dichloroethene	45.33	5.0	50	0	90.7	63.5-128	0			
Ethylbenzene	43.8	5.0	50	0	87.6	46.5-146	0			
m,p-Xylene	88.58	5.0	100	0	88.6	38.2-167	0			
Styrene	43.97	5.0	50	0	87.9	20.9-184	0			
Tetrachloroethene	42.48	5.0	50	0	85	55.2-134	0			
Toluene	45.47	5.0	50	0	90.9	45.1-138	0			
Trichloroethene	46.86	5.0	50	0	93.7	52.8-133	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.79	0	50	0	97.6	61-131	0			
<i>Surr: Dibromofluoromethane</i>	51.14	0	50	0	102	87-126	0			
<i>Surr: Toluene-d8</i>	50.55	0	50	0	101	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305449
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99227** Instrument ID: **VMS1** Method: **SW8260**

MSD		Sample ID: 1305420-04A MSD				Units: µg/L		Analysis Date: 5/22/2013 09:23 AM		
Client ID:		Run ID: VMS1_130522A				SeqNo: 612440		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	53.05	5.0	50	0	106	47.4-141	47.09	11.9	20	
1,1-Dichloroethene	52.81	5.0	50	0	106	56.3-140	47.91	9.73	20	
1,2-Dichloroethane	53.2	5.0	50	0	106	50.1-139	47.1	12.2	20	
1,3-Dichlorobenzene	48.51	5.0	50	0	97	53-127	43.16	11.7	20	
1,4-Dichlorobenzene	46.74	5.0	50	0	93.5	53.4-129	41.99	10.7	20	
Benzene	51.71	5.0	50	0	103	52.8-136	46.51	10.6	20	
Carbon tetrachloride	56.78	5.0	50	0	114	48.1-141	48.75	15.2	20	
Chlorobenzene	50.38	5.0	50	0	101	52.4-132	45.02	11.2	20	
Chloroform	50.73	5.0	50	0	101	52.9-136	45.81	10.2	20	
cis-1,2-Dichloroethene	49.63	5.0	50	0	99.3	63.5-128	45.33	9.06	20	
Ethylbenzene	50.3	5.0	50	0	101	46.5-146	43.8	13.8	20	
m,p-Xylene	101	5.0	100	0	101	38.2-167	88.58	13.1	20	
Styrene	52.12	5.0	50	0	104	20.9-184	43.97	17	20	
Tetrachloroethene	48.99	5.0	50	0	98	55.2-134	42.48	14.2	20	
Toluene	51.63	5.0	50	0	103	45.1-138	45.47	12.7	20	
Trichloroethene	52.39	5.0	50	0	105	52.8-133	46.86	11.1	20	
<i>Surr: 4-Bromofluorobenzene</i>	49.39	0	50	0	98.8	61-131	48.79	1.22		
<i>Surr: Dibromofluoromethane</i>	50.84	0	50	0	102	87-126	51.14	0.588		
<i>Surr: Toluene-d8</i>	50.18	0	50	0	100	84-111	50.55	0.735		

The following samples were analyzed in this batch:

1305449-27A

Client: AECOM
 Work Order: 1305449
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99282** Instrument ID: **VMS2** Method: **SW8260**

MBLK	Sample ID: MBLK-R99282	Units: µg/Kg					Analysis Date: 5/24/2013 07:51 AM			
Client ID:	Run ID: VMS2_130524A	SeqNo: 614195			Prep Date:	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305449
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99282	Instrument ID: VMS2	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	5.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	49.21	0	50	0	98.4	62.7-159	0
<i>Surr: Dibromofluoromethane</i>	53.93	0	50	0	108	88.2-133	0
<i>Surr: Toluene-d8</i>	50.02	0	50	0	100	81.5-110	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305449
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99282** Instrument ID: **VMS2** Method: **SW8260**

LCS		Sample ID: LCS-R99282			Units: µg/Kg		Analysis Date: 5/24/2013 08:23 AM			
Client ID:		Run ID: VMS2_130524A			SeqNo: 614196		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	63.72	5.0	50	0	127	70-132	0			
1,1-Dichloroethene	62.04	5.0	50	0	124	61.2-140	0			
1,2-Dichloroethane	63.83	5.0	50	0	128	67.3-139	0			
1,3-Dichlorobenzene	58.3	5.0	50	0	117	67.5-126	0			
1,4-Dichlorobenzene	55.11	5.0	50	0	110	69.5-124	0			
Benzene	58.51	5.0	50	0	117	67.2-135	0			
Carbon tetrachloride	64.86	5.0	50	0	130	68.6-138	0			
Chlorobenzene	57.41	5.0	50	0	115	66.4-133	0			
Chloroform	59.09	5.0	50	0	118	68.2-127	0			
cis-1,2-Dichloroethene	59.49	5.0	50	0	119	62.1-135	0			
Ethylbenzene	58.34	5.0	50	0	117	67.8-132	0			
m,p-Xylene	118	5.0	100	0	118	66.4-132	0			
Styrene	57.99	5.0	50	0	116	67.6-134	0			
Tetrachloroethene	59.36	5.0	50	0	119	70.3-144	0			
Toluene	59.7	5.0	50	0	119	67.8-130	0			
Trichloroethene	62.11	5.0	50	0	124	68.5-136	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.9	0	50	0	99.8	62.7-159	0			
<i>Surr: Dibromofluoromethane</i>	49.49	0	50	0	99	88.2-133	0			
<i>Surr: Toluene-d8</i>	50.14	0	50	0	100	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305449
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99282** Instrument ID: **VMS2** Method: **SW8260**

MS		Sample ID: 1305354-03A MS			Units: µg/Kg		Analysis Date: 5/24/2013 09:36 AM			
Client ID:		Run ID: VMS2_130524A			SeqNo: 614198		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	37.68	5.0	50	0	75.4	66.9-140	0			
1,1-Dichloroethene	38.11	5.0	50	0	76.2	65.9-143	0			
1,2-Dichloroethane	36.86	5.0	50	0	73.7	73-135	0			
1,3-Dichlorobenzene	42.1	5.0	50	0	84.2	61.2-125	0			
1,4-Dichlorobenzene	41.07	5.0	50	0	82.1	62.3-123	0			
Benzene	41.62	5.0	50	0	83.2	35.8-162	0			
Carbon tetrachloride	37.66	5.0	50	0	75.3	71.4-130	0			
Chlorobenzene	41.36	5.0	50	0	82.7	65.6-137	0			
Chloroform	40.28	5.0	50	0	80.6	69.6-128	0			
cis-1,2-Dichloroethene	39.94	5.0	50	0	79.9	68.8-130	0			
Ethylbenzene	39.81	5.0	50	0	79.6	68.6-124	0			
m,p-Xylene	79.33	5.0	100	0	79.3	64.5-125	0			
Styrene	41.01	5.0	50	0	82	65.9-125	0			
Tetrachloroethene	48.64	5.0	50	0	97.3	71.6-135	0			
Toluene	40.72	5.0	50	0	81.4	67.7-135	0			
Trichloroethene	41.26	5.0	50	0	82.5	70.9-139	0			
<i>Surr: 4-Bromofluorobenzene</i>	52.85	0	50	0	106	62.7-159	0			
<i>Surr: Dibromofluoromethane</i>	48.22	0	50	0	96.4	88.2-133	0			
<i>Surr: Toluene-d8</i>	48.85	0	50	0	97.7	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305449
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99282** Instrument ID: **VMS2** Method: **SW8260**

MSD		Sample ID: 1305354-03A MSD				Units: µg/Kg		Analysis Date: 5/24/2013 10:07 AM			
Client ID:		Run ID: VMS2_130524A				SeqNo: 614199		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	47.92	5.0	50	0	95.8	66.9-140	37.68	23.9	20	R	
1,1-Dichloroethene	49.13	5.0	50	0	98.3	65.9-143	38.11	25.3	20	R	
1,2-Dichloroethane	48.07	5.0	50	0	96.1	73-135	36.86	26.4	20	R	
1,3-Dichlorobenzene	54.12	5.0	50	0	108	61.2-125	42.1	25	21	R	
1,4-Dichlorobenzene	51.2	5.0	50	0	102	62.3-123	41.07	22	22.5		
Benzene	51.92	5.0	50	0	104	35.8-162	41.62	22	23.6		
Carbon tetrachloride	47.32	5.0	50	0	94.6	71.4-130	37.66	22.7	22.9		
Chlorobenzene	49.42	5.0	50	0	98.8	65.6-137	41.36	17.8	20		
Chloroform	51.94	5.0	50	0	104	69.6-128	40.28	25.3	23.1	R	
cis-1,2-Dichloroethene	51.17	5.0	50	0	102	68.8-130	39.94	24.7	23.7	R	
Ethylbenzene	49.68	5.0	50	0	99.4	68.6-124	39.81	22.1	24.9		
m,p-Xylene	97.24	5.0	100	0	97.2	64.5-125	79.33	20.3	25.1		
Styrene	49.85	5.0	50	0	99.7	65.9-125	41.01	19.5	22.8		
Tetrachloroethene	61.85	5.0	50	0	124	71.6-135	48.64	23.9	24.7		
Toluene	50.72	5.0	50	0	101	67.7-135	40.72	21.9	20	R	
Trichloroethene	51.97	5.0	50	0	104	70.9-139	41.26	23	20	R	
<i>Surr: 4-Bromofluorobenzene</i>	51.28	0	50	0	103	62.7-159	52.85	3.02			
<i>Surr: Dibromofluoromethane</i>	50.78	0	50	0	102	88.2-133	48.22	5.17			
<i>Surr: Toluene-d8</i>	49.2	0	50	0	98.4	81.5-110	48.85	0.714			

The following samples were analyzed in this batch:

1305449-01A	1305449-10A	1305449-18A
-------------	-------------	-------------

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 17-Jun-13

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305449

Analytical Comments

Method	Type:	SampID	SeqNo	Analysis	Comments
Batch	<u>R99798r</u>				
	Analysis	1305449-01C	626955	Organochlorine Pesticides	Concentrations >40% difference between the two GC columns for gamma Chlordane

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
WorkOrder: 1305449

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
% of sample	
µg/Kg	
µg/Kg-dry	
µg/L	
mg/Kg	
mg/Kg-dry	

Sample Receipt Checklist

Client Name: AECOM-CINCINNATI

Date/Time Received: 21-May-13 19:00

Work Order: 1305449

Received by: SJW

Checklist completed by: Steve Wilcox 21-May-13
eSignature Date

Reviewed by: Chris Gibson 03-Jun-13
eSignature Date

Matrices:

Carrier name: Client

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 2.5

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

[Empty text box for comments]

CorrectiveAction:

[Empty text box for corrective action]



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 Fax. +1 281 530 5887

Chain of Custody Form

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 Holland, MI 49424-9263
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 Fax: +1 616 399 6185

1305449

Page 1 of 3

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	PCB 8082										
Work Order		Project Number	60299534	B	Metals 6010										
Company Name	AECOM	Bill To Company	AECOM	C	Herbicides 8151										
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D	Pesticides 8081										
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E	VOC 5035										
				F	SVOC 8270										
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G											
Phone	(513) 878-6853	Phone	(513) 878-6844	H											
Fax	(513) 878-6848	Fax	(513) 878-6848	I											
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	IA#1 S1-0002	5/20/13	1250	Soil	none	7	X	X	X	X	X	X					-01
2	IA#1 S1-0204		1257			1	X										-02
3	IA#1 S1-0406		1300			1	X										-03
4	IA#1 S1-06078		1310			1	X										-04
5	IA#1 S2-0002		1135			1	X										-05
6	IA#1 S2-0204		1137			1	X										-06
7	IA#1 S2-0406		1139			1	X										-07
8	IA#1 S2-0608		1218			1	X										-08
9	IA#1 S3-0002		1503			1	X										-09
10	IA#1 S3-0204		1508			7	X	X	X	X	X	X					-10

Sampler(s) Please Print & Sign: _____ Shipment Method: _____ Required Turnaround Time: (Check Box) Std 10 WK Days 5 WK Days Other 2 WK Days 24 Hour Results Due Date: _____

Relinquished by: *[Signature]* Date: 5/20/13 Time: 1:00 Received by: _____ Notes: _____
 Relinquished by: _____ Date: 5/21/13 Time: 19:00 Received by (Laboratory): *[Signature]* Cooler ID: _____
 Logged by (Laboratory): _____ Date: _____ Time: _____ Checked by (Laboratory): _____
 Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035
 Delivery Method: Client UPS ALS Courier City Dash FedEx US Mail Drop Box Other: _____
 Cooling Method: Ice Pack Ice None Cooler _____
 Custody: Cooler Package _____
 Seals On: Samples None _____
 Temp in Celcius: 2.5 _____
 Group: _____

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.



1305449

Customer Information		Project Information		ALS Project Manager: _____ ALS Work Order #: _____												
Parameter/Method Request for Analysis																
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	PCB 8082											
Work Order		Project Number	60299534	B	Metals 6010											
Company Name	AECOM	Bill To Company	AECOM	C	Herbicides 8151											
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D	Pesticides 8081											
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E	VOC 5035											
				F	SVOC 8270											
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G												
Phone	(513) 878-6853	Phone	(513) 878-6844	H												
Fax	(513) 878-6848	Fax	(513) 878-6848	I												
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold	
1	IA#1 S3-0406	5/20/13	1517	Soil	none	1	X											-11
2	IA#1 S3-0608		1518			1	X											-12
3	IA#1 S3-0810		1523			1	X											-13
4	IA#1 S4-0002		1341			1	X											-14
5	IA#1 S4-0204		1348			1	X											-15
6	IA#1 S4-0406		1350			1	X											-16
7	IA#1 S4-0608		1353			1	X											-17
8	IA#1 S5-0005		1735			7	X	X	X	X	X	X						-18
9	IA#1 S5-0506		1740			1	X											-19
10	IA#1 S5-0608		1750			1	X											-20

Sampler(s) Please Print & Sign _____ Shipment Method _____ Required Turnaround Time: (Check Box) Std 10 WK Days 5 WK Days Other 2 WK Days 24 Hour Results Due Date: _____

Relinquished by: *Madison J. King* Date: *5/20/13* Time: *1900* Received by: _____ Notes: _____

Relinquished by: _____ Date: *5/20/13* Time: *19:00* Received by (Laboratory): *Elaine Nomina* Cooler ID: _____ Cooler Temp.: _____ QC Package: (Check One Box Below)

Logged by (Laboratory): _____ Date: _____ Time: _____ Checked by (Laboratory): _____ Level II Std QC TRRP Checklist Level III Std QC/Raw Data TRRP Level IV Level IV SW846/CLP Other / EDD

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

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1305449

Chain of Custody Form

Page 3 of 3

ALS Laboratory Group

3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

Customer Information		Project Information		ALS Project Manager:		ALS Work Order #:	
Purchase Order		Project Name		Parameter/Method Request for Analysis			
46496 ACM		Whirlpool- Green Springs, OH- SWP		A	PCB 8082		
Work Order		Project Number	60299534	B	VOC 8260		
Company Name	AECOM	Bill To Company	AECOM	C			
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D			
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E			
				F			
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G			
Phone	(513) 878-6853	Phone	(513) 878-6844	H			
Fax	(513) 878-6848	Fax	(513) 878-6848	I			
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J			

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold	
1	IA#1 S5-0810	5/20/13	1758	Soil	none	1	X											-21
2	IA#1 S13-0002		1549			1	X											-22
3	IA#1 S13-0204		1552			1	X											-23
4	IA#1 S13-0406		1555			1	X											-24
5	IA#1 S13-067.5		1605			1	X											-25
6	IA#1 S13-0810		1700			1	X											-26
7	TB-052013		-	Water				X										-27
8																		
9																		
10																		

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:			
				<input type="checkbox"/> Std 10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> Other _____ <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour							
Relinquished by:	Date:	Time:	Received by:	Notes:							
<i>[Signature]</i>	5/20/13	7:00	<i>[Signature]</i>								
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)					
<i>[Signature]</i>	5/20/13	19:00	<i>[Signature]</i>			<input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP Check List <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other / EDD					
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):								
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035											

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17-Jun-2013

Elaine Nomina
AECOM
4219 Malsbury Road
Cincinnati, OH 45242

Tel: (513) 878-6853
Fax: (513) 878-6848

Re: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: **1305450**

Dear Elaine,

ALS Environmental received 25 samples on 21-May-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 74.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

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Environmental 

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.

Client: AECOM
 Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
 Work Order: 1305450

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1305450-01	IA#1 S6-0002	Soil		5/21/2013 08:06	5/21/2013	<input type="checkbox"/>
1305450-02	IA#1 S6-0204	Soil		5/21/2013 08:07	5/21/2013	<input type="checkbox"/>
1305450-03	IA#1 S6-0406	Soil		5/21/2013 08:08	5/21/2013	<input type="checkbox"/>
1305450-04	IA#1 S6-0608	Soil		5/21/2013 08:17	5/21/2013	<input type="checkbox"/>
1305450-05	IA#1 S6-0810	Soil		5/21/2013 08:28	5/21/2013	<input type="checkbox"/>
1305450-06	IA#1 S7-0005	Soil		5/21/2013 11:10	5/21/2013	<input type="checkbox"/>
1305450-07	IA#1 S7-0506	Soil		5/21/2013 11:25	5/21/2013	<input type="checkbox"/>
1305450-07	IA#1 S7-0506	Soil		5/21/2013 11:25	5/21/2013	<input type="checkbox"/>
1305450-08	IA#1 S7-0608	Soil		5/21/2013 11:30	5/21/2013	<input type="checkbox"/>
1305450-09	IA#1 S7-0810	Soil		5/21/2013 11:32	5/21/2013	<input type="checkbox"/>
1305450-10	IA#1 S8-0002	Soil		5/21/2013 11:58	5/21/2013	<input type="checkbox"/>
1305450-11	IA#1 S8-0204	Soil		5/21/2013 12:00	5/21/2013	<input type="checkbox"/>
1305450-12	IA#1 S8-0204-B	Soil		5/21/2013 12:00	5/21/2013	<input type="checkbox"/>
1305450-13	IA#1 S8-046.8	Soil		5/21/2013 12:01	5/21/2013	<input type="checkbox"/>
1305450-14	IA#1 S9-0002	Soil		5/21/2013 09:57	5/21/2013	<input type="checkbox"/>
1305450-15	IA#1 S9-0204	Soil		5/21/2013 09:58	5/21/2013	<input type="checkbox"/>
1305450-16	IA#1 S9-0406	Soil		5/21/2013 09:59	5/21/2013	<input type="checkbox"/>
1305450-17	IA#1 S9-0608	Soil		5/21/2013 10:13	5/21/2013	<input type="checkbox"/>
1305450-18	IA#1 S9-0810	Soil		5/21/2013 10:15	5/21/2013	<input type="checkbox"/>
1305450-19	IA#1 S9-1012	Soil		5/21/2013 10:28	5/21/2013	<input type="checkbox"/>
1305450-20	IA#1 S9-1215	Soil		5/21/2013 10:30	5/21/2013	<input type="checkbox"/>
1305450-21	IA#1 S10-0005	Soil		5/21/2013 09:04	5/21/2013	<input type="checkbox"/>
1305450-22	IA#1 S10-0506	Soil		5/21/2013 09:32	5/21/2013	<input type="checkbox"/>
1305450-22	IA#1 S10-0506	Soil		5/21/2013 09:32	5/21/2013	<input type="checkbox"/>
1305450-23	IA#1 S10-0608	Soil		5/21/2013 09:34	5/21/2013	<input type="checkbox"/>
1305450-24	IA#1 S10-0810	Soil		5/21/2013 09:45	5/21/2013	<input type="checkbox"/>
1305450-25	TB-052113	Water		5/21/2013	5/21/2013	<input type="checkbox"/>

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305450

Case Narrative

The analyses requested were analyzed according to Ohio Voluntary Action Program requirements.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The pesticides and herbicides analysis was performed by Microbac Laboratories, Marietta, OH.

All soils are reported as dry weight corrected.

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S6-0002

Lab ID: 1305450-01

Collection Date: 5/21/2013 08:06 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Surr: Decachlorobiphenyl	83.8		22-156	%REC	1	5/29/2013 01:00 PM
Surr: Tetrachloro-m-xylene	82.4		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	12		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S6-0204

Lab ID: 1305450-02

Collection Date: 5/21/2013 08:07 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
<i>Surr: Decachlorobiphenyl</i>	79.8		22-156	%REC	1	5/29/2013 01:00 PM
<i>Surr: Tetrachloro-m-xylene</i>	79.2		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	17		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S6-0406

Lab ID: 1305450-03

Collection Date: 5/21/2013 08:08 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Surr: Decachlorobiphenyl	80.8		22-156	%REC	1	5/29/2013 01:00 PM
Surr: Tetrachloro-m-xylene	80.4		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	12		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S6-0608

Lab ID: 1305450-04

Collection Date: 5/21/2013 08:17 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.22	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Surr: Decachlorobiphenyl	78.6		22-156	%REC	1	5/29/2013 01:00 PM
Surr: Tetrachloro-m-xylene	75.8		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	12		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S6-0810

Lab ID: 1305450-05

Collection Date: 5/21/2013 08:28 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.22	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Surr: Decachlorobiphenyl	80.2		22-156	%REC	1	5/29/2013 01:00 PM
Surr: Tetrachloro-m-xylene	90.8		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	11		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S7-0005

Lab ID: 1305450-06

Collection Date: 5/21/2013 11:10 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
<i>Surr: Decachlorobiphenyl</i>	81.6		22-156	%REC	1	5/29/2013 01:00 PM
<i>Surr: Tetrachloro-m-xylene</i>	81.2		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	16		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S7-0506

Lab ID: 1305450-07

Collection Date: 5/21/2013 11:25 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Surr: Decachlorobiphenyl	84.2		22-156	%REC	1	5/29/2013 01:00 PM
Surr: Tetrachloro-m-xylene	83.6		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	14		0.010	% of sample	1	5/22/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.34	mg/Kg-dry	1	5/28/2013 01:46 PM
METALS BY ICP			SW6010B		Prep Date: 5/22/2013	Analyst: VAW
Aluminum	8,500		580	mg/Kg-dry	1	5/22/2013 05:01 PM
Antimony	ND		3.5	mg/Kg-dry	1	5/22/2013 05:01 PM
Arsenic	9.8		5.8	mg/Kg-dry	1	5/22/2013 05:01 PM
Barium	21		12	mg/Kg-dry	1	5/22/2013 05:01 PM
Beryllium	ND		0.58	mg/Kg-dry	1	5/22/2013 05:01 PM
Cadmium	ND		1.2	mg/Kg-dry	1	5/22/2013 05:01 PM
Calcium	91,000		580	mg/Kg-dry	1	5/22/2013 05:01 PM
Chromium	15		2.3	mg/Kg-dry	1	5/22/2013 05:01 PM
Cobalt	7.1		5.8	mg/Kg-dry	1	5/22/2013 05:01 PM
Copper	18		5.8	mg/Kg-dry	1	5/22/2013 05:01 PM
Iron	23,000		120	mg/Kg-dry	1	5/22/2013 05:01 PM
Lead	9.5		5.8	mg/Kg-dry	1	5/22/2013 05:01 PM
Magnesium	10,000		120	mg/Kg-dry	1	5/22/2013 05:01 PM
Manganese	400		5.8	mg/Kg-dry	1	5/22/2013 05:01 PM
Nickel	26		5.8	mg/Kg-dry	1	5/22/2013 05:01 PM
Potassium	1,300		580	mg/Kg-dry	1	5/22/2013 05:01 PM
Selenium	ND		3.5	mg/Kg-dry	1	5/22/2013 05:01 PM
Silver	ND		1.2	mg/Kg-dry	1	5/22/2013 05:01 PM
Sodium	ND		580	mg/Kg-dry	1	5/22/2013 05:01 PM
Thallium	ND		3.5	mg/Kg-dry	1	5/22/2013 05:01 PM
Vanadium	16		5.8	mg/Kg-dry	1	5/22/2013 05:01 PM
Zinc	51		5.8	mg/Kg-dry	1	5/22/2013 05:01 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/28/2013	Analyst: Microb

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S7-0506

Lab ID: 1305450-07

Collection Date: 5/21/2013 11:25 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		2.0	µg/Kg	1	6/1/2013 02:33 AM
4,4'-DDE	ND		2.0	µg/Kg	1	6/1/2013 02:33 AM
4,4'-DDT	ND		2.0	µg/Kg	1	6/1/2013 02:33 AM
Aldrin	ND		2.0	µg/Kg	1	6/1/2013 02:33 AM
alpha-BHC	ND		2.0	µg/Kg	1	6/1/2013 02:33 AM
alpha-Chlordane	ND		2.0	µg/Kg	1	6/1/2013 02:33 AM
beta-BHC	ND		2.0	µg/Kg	1	6/1/2013 02:33 AM
delta-BHC	ND		2.0	µg/Kg	1	6/1/2013 02:33 AM
Dieldrin	ND		2.0	µg/Kg	1	6/1/2013 02:33 AM
Endosulfan I	ND		2.0	µg/Kg	1	6/1/2013 02:33 AM
Endosulfan II	ND		2.0	µg/Kg	1	6/1/2013 02:33 AM
Endosulfan sulfate	ND		2.0	µg/Kg	1	6/1/2013 02:33 AM
Endrin	ND		2.0	µg/Kg	1	6/1/2013 02:33 AM
Endrin aldehyde	ND		2.0	µg/Kg	1	6/1/2013 02:33 AM
Endrin ketone	ND		2.0	µg/Kg	1	6/1/2013 02:33 AM
gamma-BHC (Lindane)	ND		2.0	µg/Kg	1	6/1/2013 02:33 AM
gamma-Chlordane	ND		2.0	µg/Kg	1	6/1/2013 02:33 AM
Heptachlor	ND		2.0	µg/Kg	1	6/1/2013 02:33 AM
Heptachlor epoxide	ND		2.0	µg/Kg	1	6/1/2013 02:33 AM
Methoxychlor	ND		2.0	µg/Kg	1	6/1/2013 02:33 AM
Toxaphene	ND		39	µg/Kg	1	6/1/2013 02:33 AM
<i>Surr: Decachlorobiphenyl</i>	28.1	S	33-143	%REC	1	6/1/2013 02:33 AM
<i>Surr: Tetrachloro-m-xylene</i>	36.8	S	39-130	%REC	1	6/1/2013 02:33 AM

HERBICIDES

SW8151

Prep Date: 5/29/2013

Analyst: Microb

2,4,5-T	ND		0.0048	mg/Kg	1	6/3/2013 09:14 PM
2,4,5-TP (Silvex)	ND		0.0036	mg/Kg	1	6/3/2013 09:14 PM
2,4-D	ND		0.048	mg/Kg	1	6/3/2013 09:14 PM
2,4-DB	ND		0.048	mg/Kg	1	6/3/2013 09:14 PM
Dalapon	ND		0.12	mg/Kg	1	6/3/2013 09:14 PM
Dicamba	0.0059		0.0048	mg/Kg	1	6/3/2013 09:14 PM
Dichlorprop	ND		0.048	mg/Kg	1	6/3/2013 09:14 PM
Dinoseb	ND		0.024	mg/Kg	1	6/3/2013 09:14 PM
MCPA	ND		4.8	mg/Kg	1	6/3/2013 09:14 PM
MCPP	ND		4.8	mg/Kg	1	6/3/2013 09:14 PM
Pentachlorophenol	ND		0.0048	mg/Kg	1	6/3/2013 09:14 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	104		25-110	%REC	1	6/3/2013 09:14 PM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 5/24/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
1,2,4-Trichlorobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S7-0506

Lab ID: 1305450-07

Collection Date: 5/21/2013 11:25 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
1,3-Dichlorobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
1,3-Dinitrobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
1,4-Dichlorobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
1-Methylnaphthalene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
1-Naphthylamine	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
2,3,4,6-Tetrachlorophenol	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
2,4,5-Trichlorophenol	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
2,4,6-Trichlorophenol	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
2,4-Dichlorophenol	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
2,4-Dimethylphenol	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	5/25/2013 12:18 PM
2,4-Dinitrotoluene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
2,6-Dichlorophenol	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
2,6-Dinitrotoluene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
2-Acetylaminofluorene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
2-Chloronaphthalene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
2-Chlorophenol	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
2-Methylnaphthalene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
2-Methylphenol	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
2-Naphthylamine	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/25/2013 12:18 PM
2-Nitrophenol	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
2-Picoline	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
3&4-Methylphenol	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
3,3'-Dichlorobenzidine	ND		770	µg/Kg-dry	1	5/25/2013 12:18 PM
3-Methylcholanthrene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/25/2013 12:18 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	5/25/2013 12:18 PM
4-Aminobiphenyl	ND		770	µg/Kg-dry	1	5/25/2013 12:18 PM
4-Bromophenyl phenyl ether	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
4-Chloro-3-methylphenol	ND		770	µg/Kg-dry	1	5/25/2013 12:18 PM
4-Chloroaniline	ND		770	µg/Kg-dry	1	5/25/2013 12:18 PM
4-Chlorophenyl phenyl ether	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
4-Nitroaniline	ND		770	µg/Kg-dry	1	5/25/2013 12:18 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	5/25/2013 12:18 PM
4-Nitroquinoline 1-oxide	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
5-Nitro-o-toluidine	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
7,12-Dimethylbenz(a)anthracene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Acenaphthene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S7-0506

Lab ID: 1305450-07

Collection Date: 5/21/2013 11:25 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Acetophenone	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Aniline	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Anthracene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Azobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Benzidine	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Benzo(a)anthracene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Benzo(a)pyrene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Benzo(b)fluoranthene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Benzo(g,h,i)perylene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Benzo(k)fluoranthene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Benzyl alcohol	ND		770	µg/Kg-dry	1	5/25/2013 12:18 PM
Bis(2-chloroethoxy)methane	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Bis(2-chloroethyl)ether	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Bis(2-chloroisopropyl)ether	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Bis(2-ethylhexyl)phthalate	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Butyl benzyl phthalate	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Carbazole	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Chrysene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Dibenzo(a,h)anthracene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Dibenzofuran	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Diethyl phthalate	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Dimethyl phthalate	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Di-n-butyl phthalate	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Di-n-octyl phthalate	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Dinoseb	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Diphenylamine	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Ethyl methanesulfonate	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Fluoranthene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Fluorene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Hexachlorobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Hexachlorobutadiene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Hexachlorocyclopentadiene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Hexachloroethane	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Indeno(1,2,3-cd)pyrene	ND		180	µg/Kg-dry	1	5/25/2013 12:18 PM
Isophorone	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Isosafrole	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Methapyrilene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Methyl methanesulfonate	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Naphthalene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S7-0506

Lab ID: 1305450-07

Collection Date: 5/21/2013 11:25 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
N-Nitrosodiethylamine	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
N-Nitrosodimethylamine	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
N-Nitroso-di-n-butylamine	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
N-Nitrosodi-n-propylamine	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
N-Nitrosomethylethylamine	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
N-Nitrosomorpholine	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
N-Nitrosopiperidine	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
N-Nitrosopyrrolidine	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
o-Toluidine	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
p-Dimethylaminoazobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Pentachlorobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Pentachloroethane	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Pentachloronitrobenzene	ND		770	µg/Kg-dry	1	5/25/2013 12:18 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	5/25/2013 12:18 PM
Phenacetin	ND		770	µg/Kg-dry	1	5/25/2013 12:18 PM
Phenanthrene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Phenol	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Pyrene	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Pyridine	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
Safrole	ND		390	µg/Kg-dry	1	5/25/2013 12:18 PM
<i>Surr: 2,4,6-Tribromophenol</i>	73.0		18-115	%REC	1	5/25/2013 12:18 PM
<i>Surr: 2-Fluorobiphenyl</i>	63.6		30-116	%REC	1	5/25/2013 12:18 PM
<i>Surr: 2-Fluorophenol</i>	46.5		24-105	%REC	1	5/25/2013 12:18 PM
<i>Surr: 4-Terphenyl-d14</i>	59.4		40-127	%REC	1	5/25/2013 12:18 PM
<i>Surr: Nitrobenzene-d5</i>	70.2		32-106	%REC	1	5/25/2013 12:18 PM
<i>Surr: Phenol-d5</i>	55.7		39-123	%REC	1	5/25/2013 12:18 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/22/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
1,1,1-Trichloroethane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
1,1,2,2-Tetrachloroethane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
1,1,2-Trichloroethane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
1,1-Dichloroethane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
1,1-Dichloroethene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
1,1-Dichloropropene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
1,2,3-Trichlorobenzene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
1,2,3-Trichloropropane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
1,2,4-Trichlorobenzene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
1,2,4-Trimethylbenzene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
1,2-Dibromo-3-chloropropane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S7-0506

Lab ID: 1305450-07

Collection Date: 5/21/2013 11:25 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
1,2-Dichlorobenzene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
1,2-Dichloroethane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
1,2-Dichloropropane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
1,3,5-Trimethylbenzene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
1,3-Dichlorobenzene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
1,3-Dichloropropane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
1,4-Dichlorobenzene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
2,2-Dichloropropane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
2-Butanone	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
2-Chlorotoluene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
2-Hexanone	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
4-Chlorotoluene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
4-Methyl-2-pentanone	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Acetone	28		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Benzene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Bromobenzene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Bromochloromethane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Bromodichloromethane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Bromoform	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Bromomethane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Carbon disulfide	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Carbon tetrachloride	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Chlorobenzene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Chloroethane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Chloroform	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Chloromethane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
cis-1,2-Dichloroethene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
cis-1,3-Dichloropropene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Dibromochloromethane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Dibromomethane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Dichlorodifluoromethane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Ethylbenzene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Hexachlorobutadiene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Isopropylbenzene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
m,p-Xylene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Methyl tert-butyl ether	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Methylene chloride	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Naphthalene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
n-Butylbenzene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S7-0506

Lab ID: 1305450-07

Collection Date: 5/21/2013 11:25 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
o-Xylene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
p-Isopropyltoluene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
sec-Butylbenzene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Styrene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
tert-Butylbenzene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Tetrachloroethene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Toluene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
trans-1,2-Dichloroethene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
trans-1,3-Dichloropropene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Trichloroethene	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Trichlorofluoromethane	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Vinyl chloride	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Xylenes, Total	ND		4.5	µg/Kg-dry	1	5/23/2013 05:56 PM
Surr: 4-Bromofluorobenzene	102		62.7-159	%REC	1	5/23/2013 05:56 PM
Surr: Dibromofluoromethane	107		88.2-133	%REC	1	5/23/2013 05:56 PM
Surr: Toluene-d8	98.4		81.5-110	%REC	1	5/23/2013 05:56 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S7-0608

Lab ID: 1305450-08

Collection Date: 5/21/2013 11:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Surr: Decachlorobiphenyl	81.0		22-156	%REC	1	5/29/2013 01:00 PM
Surr: Tetrachloro-m-xylene	78.6		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	15		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S7-0810

Lab ID: 1305450-09

Collection Date: 5/21/2013 11:32 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/28/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Surr: Decachlorobiphenyl	88.4		22-156	%REC	1	5/29/2013 01:00 PM
Surr: Tetrachloro-m-xylene	87.2		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	13		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S8-0002

Lab ID: 1305450-10

Collection Date: 5/21/2013 11:58 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/28/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	0.73		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
<i>Surr: Decachlorobiphenyl</i>	87.6		22-156	%REC	1	5/29/2013 01:00 PM
<i>Surr: Tetrachloro-m-xylene</i>	91.6		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	13		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S8-0204

Lab ID: 1305450-11

Collection Date: 5/21/2013 12:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/28/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.25	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
<i>Surr: Decachlorobiphenyl</i>	89.6		22-156	%REC	1	5/29/2013 01:00 PM
<i>Surr: Tetrachloro-m-xylene</i>	93.4		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	18		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S8-0204-B

Lab ID: 1305450-12

Collection Date: 5/21/2013 12:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/28/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Surr: Decachlorobiphenyl	88.0		22-156	%REC	1	5/29/2013 01:00 PM
Surr: Tetrachloro-m-xylene	92.2		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	16		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S8-046.8

Lab ID: 1305450-13

Collection Date: 5/21/2013 12:01 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/28/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.22	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Surr: Decachlorobiphenyl	91.4		22-156	%REC	1	5/29/2013 01:00 PM
Surr: Tetrachloro-m-xylene	96.0		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	8.7		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S9-0002

Lab ID: 1305450-14

Collection Date: 5/21/2013 09:57 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/28/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
<i>Surr: Decachlorobiphenyl</i>	80.6		22-156	%REC	1	5/29/2013 01:00 PM
<i>Surr: Tetrachloro-m-xylene</i>	87.0		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	15		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S9-0204

Lab ID: 1305450-15

Collection Date: 5/21/2013 09:58 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/28/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Surr: Decachlorobiphenyl	86.0		22-156	%REC	1	5/29/2013 01:00 PM
Surr: Tetrachloro-m-xylene	87.2		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	14		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S9-0406

Lab ID: 1305450-16

Collection Date: 5/21/2013 09:59 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/28/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.25	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.13	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.13	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	5/29/2013 01:00 PM
Surr: Decachlorobiphenyl	87.6		22-156	%REC	1	5/29/2013 01:00 PM
Surr: Tetrachloro-m-xylene	92.2		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	21		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S9-0608

Lab ID: 1305450-17

Collection Date: 5/21/2013 10:13 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/28/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Surr: Decachlorobiphenyl	86.2		22-156	%REC	1	5/29/2013 01:00 PM
Surr: Tetrachloro-m-xylene	91.4		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	19		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S9-0810

Lab ID: 1305450-18

Collection Date: 5/21/2013 10:15 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/28/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.25	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.13	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.13	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	5/29/2013 01:00 PM
Surr: Decachlorobiphenyl	90.6		22-156	%REC	1	5/29/2013 01:00 PM
Surr: Tetrachloro-m-xylene	95.6		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	22		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S9-1012

Lab ID: 1305450-19

Collection Date: 5/21/2013 10:28 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/28/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.26	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.13	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.13	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	5/29/2013 01:00 PM
Surr: Decachlorobiphenyl	87.8		22-156	%REC	1	5/29/2013 01:00 PM
Surr: Tetrachloro-m-xylene	91.4		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	22		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S9-1215

Lab ID: 1305450-20

Collection Date: 5/21/2013 10:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/28/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Surr: Decachlorobiphenyl	87.6		22-156	%REC	1	5/29/2013 01:00 PM
Surr: Tetrachloro-m-xylene	84.8		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	13		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S10-0005

Lab ID: 1305450-21

Collection Date: 5/21/2013 09:04 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/28/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/29/2013 01:00 PM
Surr: Decachlorobiphenyl	86.8		22-156	%REC	1	5/29/2013 01:00 PM
Surr: Tetrachloro-m-xylene	91.2		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	14		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S10-0506

Lab ID: 1305450-22

Collection Date: 5/21/2013 09:32 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/28/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Surr: Decachlorobiphenyl	85.4		22-156	%REC	1	5/29/2013 01:00 PM
Surr: Tetrachloro-m-xylene	0	S	34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	15		0.010	% of sample	1	5/22/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.33	mg/Kg-dry	1	5/28/2013 01:52 PM
METALS BY ICP			SW6010B		Prep Date: 5/22/2013	Analyst: VAW
Aluminum	8,800		580	mg/Kg-dry	1	5/22/2013 05:07 PM
Antimony	ND		3.5	mg/Kg-dry	1	5/22/2013 05:07 PM
Arsenic	8.7		5.8	mg/Kg-dry	1	5/22/2013 05:07 PM
Barium	39		12	mg/Kg-dry	1	5/22/2013 05:07 PM
Beryllium	ND		0.58	mg/Kg-dry	1	5/22/2013 05:07 PM
Cadmium	ND		1.2	mg/Kg-dry	1	5/22/2013 05:07 PM
Calcium	29,000		580	mg/Kg-dry	1	5/22/2013 05:07 PM
Chromium	14		2.3	mg/Kg-dry	1	5/22/2013 05:07 PM
Cobalt	8.5		5.8	mg/Kg-dry	1	5/22/2013 05:07 PM
Copper	19		5.8	mg/Kg-dry	1	5/22/2013 05:07 PM
Iron	21,000		120	mg/Kg-dry	1	5/22/2013 05:07 PM
Lead	12		5.8	mg/Kg-dry	1	5/22/2013 05:07 PM
Magnesium	6,100		120	mg/Kg-dry	1	5/22/2013 05:07 PM
Manganese	230		5.8	mg/Kg-dry	1	5/22/2013 05:07 PM
Nickel	22		5.8	mg/Kg-dry	1	5/22/2013 05:07 PM
Potassium	1,400		580	mg/Kg-dry	1	5/22/2013 05:07 PM
Selenium	ND		3.5	mg/Kg-dry	1	5/22/2013 05:07 PM
Silver	ND		1.2	mg/Kg-dry	1	5/22/2013 05:07 PM
Sodium	ND		580	mg/Kg-dry	1	5/22/2013 05:07 PM
Thallium	ND		3.5	mg/Kg-dry	1	5/22/2013 05:07 PM
Vanadium	16		5.8	mg/Kg-dry	1	5/22/2013 05:07 PM
Zinc	57		5.8	mg/Kg-dry	1	5/22/2013 05:07 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/28/2013	Analyst: Microb

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S10-0506

Lab ID: 1305450-22

Collection Date: 5/21/2013 09:32 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		2.0	µg/Kg	1	6/1/2013 03:00 AM
4,4'-DDE	ND		2.0	µg/Kg	1	6/1/2013 03:00 AM
4,4'-DDT	ND		2.0	µg/Kg	1	6/1/2013 03:00 AM
Aldrin	ND		2.0	µg/Kg	1	6/1/2013 03:00 AM
alpha-BHC	ND		2.0	µg/Kg	1	6/1/2013 03:00 AM
alpha-Chlordane	ND		2.0	µg/Kg	1	6/1/2013 03:00 AM
beta-BHC	ND		2.0	µg/Kg	1	6/1/2013 03:00 AM
delta-BHC	ND		2.0	µg/Kg	1	6/1/2013 03:00 AM
Dieldrin	ND		2.0	µg/Kg	1	6/1/2013 03:00 AM
Endosulfan I	ND		2.0	µg/Kg	1	6/1/2013 03:00 AM
Endosulfan II	ND		2.0	µg/Kg	1	6/1/2013 03:00 AM
Endosulfan sulfate	ND		2.0	µg/Kg	1	6/1/2013 03:00 AM
Endrin	ND		2.0	µg/Kg	1	6/1/2013 03:00 AM
Endrin aldehyde	ND		2.0	µg/Kg	1	6/1/2013 03:00 AM
Endrin ketone	ND		2.0	µg/Kg	1	6/1/2013 03:00 AM
gamma-BHC (Lindane)	ND		2.0	µg/Kg	1	6/1/2013 03:00 AM
gamma-Chlordane	ND		2.0	µg/Kg	1	6/1/2013 03:00 AM
Heptachlor	ND		2.0	µg/Kg	1	6/1/2013 03:00 AM
Heptachlor epoxide	ND		2.0	µg/Kg	1	6/1/2013 03:00 AM
Methoxychlor	ND		2.0	µg/Kg	1	6/1/2013 03:00 AM
Toxaphene	ND		41	µg/Kg	1	6/1/2013 03:00 AM
Surr: Decachlorobiphenyl	49.6		33-143	%REC	1	6/1/2013 03:00 AM
Surr: Tetrachloro-m-xylene	49.8		39-130	%REC	1	6/1/2013 03:00 AM

HERBICIDES

SW8151

Prep Date: 5/29/2013

Analyst: Microb

2,4,5-T	ND		0.11	mg/Kg	1	6/4/2013 12:40 AM
2,4,5-TP (Silvex)	ND		0.084	mg/Kg	1	6/4/2013 12:40 AM
2,4-D	ND		1.1	mg/Kg	1	6/4/2013 12:40 AM
2,4-DB	ND		1.1	mg/Kg	1	6/4/2013 12:40 AM
Dalapon	ND		2.8	mg/Kg	1	6/4/2013 12:40 AM
Dicamba	ND		0.11	mg/Kg	1	6/4/2013 12:40 AM
Dichlorprop	ND		1.1	mg/Kg	1	6/4/2013 12:40 AM
Dinoseb	ND		0.56	mg/Kg	1	6/4/2013 12:40 AM
MCPA	ND		110	mg/Kg	1	6/4/2013 12:40 AM
MCPP	ND		110	mg/Kg	1	6/4/2013 12:40 AM
Pentachlorophenol	ND		0.11	mg/Kg	1	6/4/2013 12:40 AM
Surr: 2,4-Dichlorophenylacetic acid	0		25-110	%REC	1	6/4/2013 12:40 AM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 5/24/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
1,2,4-Trichlorobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S10-0506

Lab ID: 1305450-22

Collection Date: 5/21/2013 09:32 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
1,3-Dichlorobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
1,3-Dinitrobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
1,4-Dichlorobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
1-Methylnaphthalene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
1-Naphthylamine	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
2,3,4,6-Tetrachlorophenol	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
2,4,5-Trichlorophenol	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
2,4,6-Trichlorophenol	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
2,4-Dichlorophenol	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
2,4-Dimethylphenol	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	5/25/2013 12:52 PM
2,4-Dinitrotoluene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
2,6-Dichlorophenol	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
2,6-Dinitrotoluene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
2-Acetylaminofluorene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
2-Chloronaphthalene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
2-Chlorophenol	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
2-Methylnaphthalene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
2-Methylphenol	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
2-Naphthylamine	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/25/2013 12:52 PM
2-Nitrophenol	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
2-Picoline	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
3&4-Methylphenol	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
3,3'-Dichlorobenzidine	ND		780	µg/Kg-dry	1	5/25/2013 12:52 PM
3-Methylcholanthrene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/25/2013 12:52 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	5/25/2013 12:52 PM
4-Aminobiphenyl	ND		780	µg/Kg-dry	1	5/25/2013 12:52 PM
4-Bromophenyl phenyl ether	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
4-Chloro-3-methylphenol	ND		780	µg/Kg-dry	1	5/25/2013 12:52 PM
4-Chloroaniline	ND		780	µg/Kg-dry	1	5/25/2013 12:52 PM
4-Chlorophenyl phenyl ether	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
4-Nitroaniline	ND		780	µg/Kg-dry	1	5/25/2013 12:52 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	5/25/2013 12:52 PM
4-Nitroquinoline 1-oxide	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
5-Nitro-o-toluidine	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
7,12-Dimethylbenz(a)anthracene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Acenaphthene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S10-0506

Lab ID: 1305450-22

Collection Date: 5/21/2013 09:32 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Acetophenone	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Aniline	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Anthracene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Azobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Benzidine	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Benzo(a)anthracene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Benzo(a)pyrene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Benzo(b)fluoranthene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Benzo(g,h,i)perylene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Benzo(k)fluoranthene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Benzyl alcohol	ND		780	µg/Kg-dry	1	5/25/2013 12:52 PM
Bis(2-chloroethoxy)methane	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Bis(2-chloroethyl)ether	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Bis(2-chloroisopropyl)ether	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Bis(2-ethylhexyl)phthalate	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Butyl benzyl phthalate	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Carbazole	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Chrysene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Dibenzo(a,h)anthracene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Dibenzofuran	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Diethyl phthalate	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Dimethyl phthalate	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Di-n-butyl phthalate	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Di-n-octyl phthalate	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Dinoseb	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Diphenylamine	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Ethyl methanesulfonate	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Fluoranthene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Fluorene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Hexachlorobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Hexachlorobutadiene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Hexachlorocyclopentadiene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Hexachloroethane	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Indeno(1,2,3-cd)pyrene	ND		180	µg/Kg-dry	1	5/25/2013 12:52 PM
Isophorone	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Isosafrole	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Methapyrilene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Methyl methanesulfonate	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Naphthalene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S10-0506

Lab ID: 1305450-22

Collection Date: 5/21/2013 09:32 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
N-Nitrosodiethylamine	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
N-Nitrosodimethylamine	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
N-Nitroso-di-n-butylamine	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
N-Nitrosodi-n-propylamine	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
N-Nitrosomethylethylamine	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
N-Nitrosomorpholine	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
N-Nitrosopiperidine	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
N-Nitrosopyrrolidine	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
o-Toluidine	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
p-Dimethylaminoazobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Pentachlorobenzene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Pentachloroethane	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Pentachloronitrobenzene	ND		780	µg/Kg-dry	1	5/25/2013 12:52 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	5/25/2013 12:52 PM
Phenacetin	ND		780	µg/Kg-dry	1	5/25/2013 12:52 PM
Phenanthrene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Phenol	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Pyrene	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Pyridine	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
Safrole	ND		390	µg/Kg-dry	1	5/25/2013 12:52 PM
<i>Surr: 2,4,6-Tribromophenol</i>	74.2		18-115	%REC	1	5/25/2013 12:52 PM
<i>Surr: 2-Fluorobiphenyl</i>	70.5		30-116	%REC	1	5/25/2013 12:52 PM
<i>Surr: 2-Fluorophenol</i>	51.9		24-105	%REC	1	5/25/2013 12:52 PM
<i>Surr: 4-Terphenyl-d14</i>	64.1		40-127	%REC	1	5/25/2013 12:52 PM
<i>Surr: Nitrobenzene-d5</i>	79.5		32-106	%REC	1	5/25/2013 12:52 PM
<i>Surr: Phenol-d5</i>	60.6		39-123	%REC	1	5/25/2013 12:52 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/22/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
1,1,1-Trichloroethane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
1,1,2,2-Tetrachloroethane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
1,1,2-Trichloroethane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
1,1-Dichloroethane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
1,1-Dichloroethene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
1,1-Dichloropropene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
1,2,3-Trichlorobenzene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
1,2,3-Trichloropropane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
1,2,4-Trichlorobenzene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
1,2,4-Trimethylbenzene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
1,2-Dibromo-3-chloropropane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S10-0506

Lab ID: 1305450-22

Collection Date: 5/21/2013 09:32 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
1,2-Dichlorobenzene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
1,2-Dichloroethane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
1,2-Dichloropropane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
1,3,5-Trimethylbenzene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
1,3-Dichlorobenzene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
1,3-Dichloropropane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
1,4-Dichlorobenzene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
2,2-Dichloropropane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
2-Butanone	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
2-Chlorotoluene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
2-Hexanone	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
4-Chlorotoluene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
4-Methyl-2-pentanone	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Acetone	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Benzene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Bromobenzene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Bromochloromethane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Bromodichloromethane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Bromoform	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Bromomethane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Carbon disulfide	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Carbon tetrachloride	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Chlorobenzene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Chloroethane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Chloroform	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Chloromethane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
cis-1,2-Dichloroethene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
cis-1,3-Dichloropropene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Dibromochloromethane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Dibromomethane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Dichlorodifluoromethane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Ethylbenzene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Hexachlorobutadiene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Isopropylbenzene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
m,p-Xylene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Methyl tert-butyl ether	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Methylene chloride	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Naphthalene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
n-Butylbenzene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S10-0506

Lab ID: 1305450-22

Collection Date: 5/21/2013 09:32 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
o-Xylene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
p-Isopropyltoluene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
sec-Butylbenzene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Styrene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
tert-Butylbenzene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Tetrachloroethene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Toluene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
trans-1,2-Dichloroethene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
trans-1,3-Dichloropropene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Trichloroethene	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Trichlorofluoromethane	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Vinyl chloride	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Xylenes, Total	ND		4.4	µg/Kg-dry	1	5/23/2013 06:28 PM
Surr: 4-Bromofluorobenzene	104		62.7-159	%REC	1	5/23/2013 06:28 PM
Surr: Dibromofluoromethane	111		88.2-133	%REC	1	5/23/2013 06:28 PM
Surr: Toluene-d8	97.6		81.5-110	%REC	1	5/23/2013 06:28 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S10-0608

Lab ID: 1305450-23

Collection Date: 5/21/2013 09:34 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/29/2013 01:00 PM
Surr: Decachlorobiphenyl	92.6		22-156	%REC	1	5/29/2013 01:00 PM
Surr: Tetrachloro-m-xylene	93.2		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	16		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: IA#1 S10-0810

Lab ID: 1305450-24

Collection Date: 5/21/2013 09:45 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.14	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1221	ND		0.29	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1232	ND		0.14	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1242	ND		0.14	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1248	ND		0.14	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1254	ND		0.14	mg/Kg-dry	1	5/29/2013 01:00 PM
Aroclor 1260	ND		0.14	mg/Kg-dry	1	5/29/2013 01:00 PM
Surr: Decachlorobiphenyl	92.0		22-156	%REC	1	5/29/2013 01:00 PM
Surr: Tetrachloro-m-xylene	88.6		34-145	%REC	1	5/29/2013 01:00 PM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	31		0.010	% of sample	1	5/22/2013

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: TB-052113

Lab ID: 1305450-25

Collection Date: 5/21/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: LAK
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	5/22/2013 12:23 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	5/22/2013 12:23 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	5/22/2013 12:23 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	5/22/2013 12:23 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	5/22/2013 12:23 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	5/22/2013 12:23 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	5/22/2013 12:23 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	5/22/2013 12:23 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	5/22/2013 12:23 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	5/22/2013 12:23 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	5/22/2013 12:23 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	5/22/2013 12:23 PM
2-Butanone	ND		5.0	µg/L	1	5/22/2013 12:23 PM
2-Chlorotoluene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
2-Hexanone	ND		5.0	µg/L	1	5/22/2013 12:23 PM
4-Chlorotoluene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Acetone	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Benzene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Bromobenzene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Bromochloromethane	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Bromodichloromethane	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Bromoform	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Bromomethane	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Carbon disulfide	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Carbon tetrachloride	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Chlorobenzene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Chloroethane	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Chloroform	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Chloromethane	ND		5.0	µg/L	1	5/22/2013 12:23 PM

Note:

ALS Environmental

Date: 17-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305450

Sample ID: TB-052113

Lab ID: 1305450-25

Collection Date: 5/21/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Dibromochloromethane	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Dibromomethane	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Ethylbenzene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Isopropylbenzene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
m,p-Xylene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Methylene chloride	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Naphthalene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
n-Butylbenzene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
n-Propylbenzene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
o-Xylene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
sec-Butylbenzene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Styrene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
tert-Butylbenzene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Tetrachloroethene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Toluene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Trichloroethene	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Vinyl chloride	ND		2.0	µg/L	1	5/22/2013 12:23 PM
Xylenes, Total	ND		5.0	µg/L	1	5/22/2013 12:23 PM
Surr: 4-Bromofluorobenzene	94.7		61-131	%REC	1	5/22/2013 12:23 PM
Surr: Dibromofluoromethane	97.8		87-126	%REC	1	5/22/2013 12:23 PM
Surr: Toluene-d8	100		84-111	%REC	1	5/22/2013 12:23 PM

Note:

Client: AECOM

QC BATCH REPORT

Work Order: 1305450

Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

Batch ID: **16802**

Instrument ID: **GC9**

Method: **SW8082**

MBLK		Sample ID: MBLK-16802-16802			Units: mg/Kg		Analysis Date: 5/24/2013			
Client ID:		Run ID: GC9_130524A			SeqNo: 615473		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
<i>Surr: Decachlorobiphenyl</i>	0.0828	0	0.1	0	82.8	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0842	0	0.1	0	84.2	34-145	0			

LCS		Sample ID: LCS-16802-16802			Units: mg/Kg		Analysis Date: 5/24/2013			
Client ID:		Run ID: GC9_130524A			SeqNo: 615474		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.04	0.10	2	0	102	50-133	0			
<i>Surr: Decachlorobiphenyl</i>	0.0852	0	0.1	0	85.2	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0814	0	0.1	0	81.4	34-145	0			

MS		Sample ID: 1305415-01Cms			Units: mg/Kg		Analysis Date: 5/24/2013			
Client ID:		Run ID: GC9_130524A			SeqNo: 615476		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.547	0.099	1.976	0	129	31-150	0			
<i>Surr: Decachlorobiphenyl</i>	0.08478	0	0.09881	0	85.8	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.07925	0	0.09881	0	80.2	34-145	0			

MSD		Sample ID: 1305415-01Cmsd			Units: mg/Kg		Analysis Date: 5/24/2013			
Client ID:		Run ID: GC9_130524A			SeqNo: 615477		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.01	0.099	1.988	0	101	31-150	2.547	23.6	53	
<i>Surr: Decachlorobiphenyl</i>	0.0835	0	0.0994	0	84	22-156	0.08478	1.53		
<i>Surr: Tetrachloro-m-xylene</i>	0.07793	0	0.0994	0	78.4	34-145	0.07925	1.68		

The following samples were analyzed in this batch:

1305450-01A	1305450-02A	1305450-03A
1305450-04A	1305450-05A	1305450-06A
1305450-07D	1305450-08A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305450
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16835 Instrument ID: GC9 Method: SW8082

MBLK		Sample ID: MBLK-16835-16835			Units: mg/Kg		Analysis Date: 5/29/2013 01:00 PM			
Client ID:		Run ID: GC9_130529A			SeqNo: 617203		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.0852	0	0.1	0	85.2	22-156	0			
Surr: Tetrachloro-m-xylene	0.0886	0	0.1	0	88.6	34-145	0			

LCS		Sample ID: LCS-16835-16835			Units: mg/Kg		Analysis Date: 5/29/2013 01:00 PM			
Client ID:		Run ID: GC9_130529A			SeqNo: 617204		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.214	0.10	2	0	111	50-133	0			
Surr: Decachlorobiphenyl	0.0938	0	0.1	0	93.8	22-156	0			
Surr: Tetrachloro-m-xylene	0.0932	0	0.1	0	93.2	34-145	0			

MS		Sample ID: 1305450-15Ams			Units: mg/Kg		Analysis Date: 5/29/2013 01:00 PM			
Client ID: IA#1 S9-0204		Run ID: GC9_130529A			SeqNo: 617218		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.225	0.10	2.012	0	111	31-150	0			
Surr: Decachlorobiphenyl	0.09296	0	0.1006	0	92.4	22-156	0			
Surr: Tetrachloro-m-xylene	0.09638	0	0.1006	0	95.8	34-145	0			

MSD		Sample ID: 1305450-15Amsd			Units: mg/Kg		Analysis Date: 5/29/2013 01:00 PM			
Client ID: IA#1 S9-0204		Run ID: GC9_130529A			SeqNo: 617219		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.171	0.10	2	0	109	31-150	2.225	2.46	53	
Surr: Decachlorobiphenyl	0.0908	0	0.1	0	90.8	22-156	0.09296	2.35		
Surr: Tetrachloro-m-xylene	0.0938	0	0.1	0	93.8	34-145	0.09638	2.71		

The following samples were analyzed in this batch:

1305450-09A	1305450-10A	1305450-11A
1305450-12A	1305450-13A	1305450-14A
1305450-15A	1305450-16A	1305450-17A
1305450-18A	1305450-19A	1305450-20A
1305450-21A	1305450-22D	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305450
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16868 Instrument ID: GC9 Method: SW8082

MBLK		Sample ID: MBLK-16868-16868			Units: mg/Kg		Analysis Date: 5/29/2013 01:00 PM			
Client ID:		Run ID: GC9_130529A			SeqNo: 617273		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.0948	0	0.1	0	94.8	22-156	0			
Surr: Tetrachloro-m-xylene	0.0962	0	0.1	0	96.2	34-145	0			

LCS		Sample ID: LCS-16868-16868			Units: mg/Kg		Analysis Date: 5/29/2013 01:00 PM			
Client ID:		Run ID: GC9_130529A			SeqNo: 617274		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.423	0.10	2	0	121	50-133	0			
Surr: Decachlorobiphenyl	0.1012	0	0.1	0	101	22-156	0			
Surr: Tetrachloro-m-xylene	0.1162	0	0.1	0	116	34-145	0			

MS		Sample ID: MS 1305450-23A			Units: mg/Kg		Analysis Date: 5/29/2013 01:00 PM			
Client ID:		Run ID: GC9_130529A			SeqNo: 617275		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.199	0.099	1.984	0	111	31-150	0			
Surr: Decachlorobiphenyl	0.09187	0	0.09921	0	92.6	22-156	0			
Surr: Tetrachloro-m-xylene	0.09167	0	0.09921	0	92.4	34-145	0			

MSD		Sample ID: MSD 1305450-23A			Units: mg/Kg		Analysis Date: 5/29/2013 01:00 PM			
Client ID:		Run ID: GC9_130529A			SeqNo: 617276		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.298	0.10	1.992	0	115	31-150	0			
Surr: Decachlorobiphenyl	0.09681	0	0.0996	0	97.2	22-156	0			
Surr: Tetrachloro-m-xylene	0.09801	0	0.0996	0	98.4	34-145	0			

The following samples were analyzed in this batch: 1305450-23A 1305450-24A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305450
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16797 Instrument ID: HG1 Method: SW7471A

MBLK	Sample ID: MBLK-16797-16797					Units: mg/Kg	Analysis Date: 5/28/2013 01:33 PM				
Client ID:	Run ID: HG1_130528A					SeqNo: 615857	Prep Date: 5/23/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury ND 0.30

LCS	Sample ID: LCS-16797-16797					Units: mg/Kg	Analysis Date: 5/28/2013 01:29 PM				
Client ID:	Run ID: HG1_130528A					SeqNo: 615855	Prep Date: 5/23/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 1.149 0.30 1.109 0 104 69-147 0

LCSD	Sample ID: LCSD-16797-16797					Units: mg/Kg	Analysis Date: 5/28/2013 01:31 PM				
Client ID:	Run ID: HG1_130528A					SeqNo: 615856	Prep Date: 5/23/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 1.168 0.29 1.09 0 107 69-147 1.149 1.64 20

MS	Sample ID: 1305449-01D MS					Units: mg/Kg	Analysis Date: 5/28/2013 01:37 PM				
Client ID:	Run ID: HG1_130528A					SeqNo: 615859	Prep Date: 5/23/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.8443 0.29 0.8007 0.03326 101 69-147 0

MSD	Sample ID: 1305449-01D MSD					Units: mg/Kg	Analysis Date: 5/28/2013 01:39 PM				
Client ID:	Run ID: HG1_130528A					SeqNo: 615860	Prep Date: 5/23/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.8156 0.28 0.7824 0.03326 100 69-147 0.8443 3.46 20

The following samples were analyzed in this batch: 1305450-07D 1305450-22D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305450
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16769** Instrument ID: **ICP3** Method: **SW6010B**

MBLK		Sample ID: MBLK-16769-16769			Units: mg/Kg		Analysis Date: 5/22/2013 01:46 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 612982		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500								
Antimony	ND	3.0								
Arsenic	ND	5.0								
Barium	ND	10								
Beryllium	ND	0.50								
Cadmium	ND	1.0								
Calcium	ND	500								
Chromium	ND	2.0								
Cobalt	ND	5.0								
Copper	ND	5.0								
Iron	ND	100								
Lead	ND	5.0								
Magnesium	ND	100								
Manganese	ND	5.0								
Nickel	ND	5.0								
Potassium	ND	500								
Selenium	ND	3.0								
Silver	ND	1.0								
Sodium	ND	500								
Thallium	ND	3.0								
Vanadium	ND	5.0								
Zinc	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305450
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16769 Instrument ID: ICP3 Method: SW6010B

LCS		Sample ID: LCS-16769-16769			Units: mg/Kg		Analysis Date: 5/22/2013 01:52 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 612983		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500	100	0	110	80-120	0			
Antimony	84.65	3.0	100	0	84.6	80-120	0			
Arsenic	89.49	5.0	100	0	89.5	80-120	0			
Barium	92.93	10	100	0	92.9	80-120	0			
Beryllium	93.92	0.50	100	0	93.9	80-120	0			
Cadmium	91.59	1.0	100	0	91.6	80-120	0			
Calcium	ND	500	100	0	96.4	80-120	0			
Chromium	95.54	2.0	100	0	95.5	80-120	0			
Cobalt	89.11	5.0	100	0	89.1	80-120	0			
Copper	93.13	5.0	100	0	93.1	80-120	0			
Iron	ND	100	100	0	98.2	80-120	0			
Lead	92.53	5.0	100	0	92.5	80-120	0			
Magnesium	ND	100	100	0	94.8	80-120	0			
Manganese	93.1	5.0	100	0	93.1	80-120	0			
Nickel	86.69	5.0	100	0	86.7	80-120	0			
Potassium	991.1	500	1000	0	99.1	80-120	0			
Selenium	92.45	3.0	100	0	92.4	80-120	0			
Silver	97.59	1.0	100	0	97.6	80-120	0			
Sodium	ND	500	100	0	96.2	80-120	0			
Thallium	86.45	3.0	100	0	86.4	80-120	0			
Vanadium	92.85	5.0	100	0	92.8	80-120	0			
Zinc	86.76	5.0	100	0	86.8	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305450
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16769** Instrument ID: **ICP3** Method: **SW6010B**

LCSD		Sample ID: LCSD-16769-16769			Units: mg/Kg		Analysis Date: 5/22/2013 02:11 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 612984		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500	100	0	105	80-120	93.58	0	20	
Antimony	96.24	3.0	100	0	96.2	80-120	92.76	0	20	
Arsenic	100.2	5.0	100	0	100	80-120	96.22	0	20	
Barium	103.9	10	100	0	104	80-120	101.3	0	20	
Beryllium	95.09	0.50	100	0	95.1	80-120	89.59	0	20	
Cadmium	101.5	1.0	100	0	102	80-120	98.85	0	20	
Calcium	ND	500	100	0	96.5	80-120	95	0	20	
Chromium	100.2	2.0	100	0	100	80-120	97.77	0	20	
Cobalt	98.39	5.0	100	0	98.4	80-120	96.29	0	20	
Copper	97.87	5.0	100	0	97.9	80-120	95.07	0	20	
Iron	ND	100	100	0	99.8	80-120	93.92	0	20	
Lead	103.6	5.0	100	0	104	80-120	100.4	0	20	
Magnesium	ND	100	100	0	96.2	80-120	88.3	0	20	
Manganese	95.57	5.0	100	0	95.6	80-120	88.59	0	20	
Nickel	97.53	5.0	100	0	97.5	80-120	94.54	0	20	
Potassium	992.7	500	1000	0	99.3	80-120	940.5	0	20	
Selenium	102.3	3.0	100	0	102	80-120	98.44	0	20	
Silver	101.1	1.0	100	0	101	80-120	99.04	0	20	
Sodium	ND	500	100	0	99.8	80-120	97.98	0	20	
Thallium	96.6	3.0	100	0	96.6	80-120	92.98	0	20	
Vanadium	93.83	5.0	100	0	93.8	80-120	88.41	0	20	
Zinc	98.43	5.0	100	0	98.4	80-120	95.04	0	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305450
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16769** Instrument ID: **ICP3** Method: **SW6010B**

MS		Sample ID: 1305447-03b ms			Units: mg/Kg		Analysis Date: 5/22/2013 02:35 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 612988		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	2175	500	99.46	0	2190	80-120	0			S
Antimony	84.81	3.0	99.46	0	85.3	75-125	0			
Arsenic	94.41	5.0	99.46	0	94.9	75-125	0			
Barium	93.45	9.9	99.46	0	94	75-125	0			
Beryllium	90.11	0.50	99.46	0	90.6	75-125	0			
Cadmium	94.94	0.99	99.46	0	95.4	75-125	0			
Calcium	79260	990	99.46	0	79700	75-125	0			SE
Chromium	88.78	2.0	99.46	0	89.3	75-125	0			
Cobalt	80.47	5.0	99.46	0	80.9	75-125	0			
Copper	91.25	5.0	99.46	0	91.7	75-125	0			
Iron	6625	99	99.46	0	6660	75-125	0			S
Lead	83.47	5.0	99.46	0	83.9	75-125	0			
Magnesium	22580	99	99.46	0	22700	75-125	0			S
Manganese	408.3	5.0	99.46	0	410	75-125	0			S
Nickel	82.31	5.0	99.46	0	82.8	75-125	0			
Potassium	1332	500	99.46	0	134	75-125	0			S
Selenium	90.25	3.0	99.46	0	90.7	75-125	0			
Silver	92.39	0.99	99.46	0	92.9	75-125	0			
Sodium	ND	500	99.46	0	207	75-125	0			S
Thallium	71.45	3.0	99.46	0	71.8	75-125	0			S
Vanadium	98.71	5.0	99.46	0	99.2	75-125	0			
Zinc	106.7	5.0	99.46	0	107	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305450
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16769 Instrument ID: ICP3 Method: SW6010B

MSD		Sample ID: 1305447-03b msd			Units: mg/Kg		Analysis Date: 5/22/2013 02:42 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 612989		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	2864	500	99.48	0	2880	75-125	0	0	20	S
Antimony	83.44	3.0	99.48	0	83.9	75-125	0	0	20	
Arsenic	93.58	5.0	99.48	0	94.1	75-125	0	0	20	
Barium	93.22	9.9	99.48	0	93.7	75-125	0	0	20	
Beryllium	88.22	0.50	99.48	0	88.7	75-125	0	0	20	
Cadmium	92.98	0.99	99.48	0	93.5	75-125	0	0	20	
Calcium	90600	990	99.48	0	91100	75-125	0	0	20	SE
Chromium	87.9	2.0	99.48	0	88.4	75-125	0	0	20	
Cobalt	78.33	5.0	99.48	0	78.7	75-125	0	0	20	
Copper	87.96	5.0	99.48	0	88.4	75-125	0	0	20	
Iron	6967	99	99.48	0	7000	75-125	0	0	20	S
Lead	81.3	5.0	99.48	0	81.7	75-125	0	0	20	
Magnesium	31350	99	99.48	0	31500	75-125	0	0	20	S
Manganese	421.1	5.0	99.48	0	423	75-125	0	0	20	S
Nickel	80.52	5.0	99.48	0	80.9	75-125	0	0	20	
Potassium	1272	500	99.48	0	128	75-125	0	0	20	S
Selenium	89.56	3.0	99.48	0	90	75-125	0	0	20	
Silver	91.14	0.99	99.48	0	91.6	75-125	0	0	20	
Sodium	ND	500	99.48	0	266	75-125	0	0	20	S
Thallium	69.54	3.0	99.48	0	69.9	75-125	0	0	20	S
Vanadium	95.72	5.0	99.48	0	96.2	75-125	0	0	20	
Zinc	105.9	5.0	99.48	0	106	75-125	0	0	20	

The following samples were analyzed in this batch:

1305450-07c	1305450-07D	1305450-22D
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305450
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99799t** Instrument ID: **SUB** Method: **SW8081A**

MBLK	Sample ID: MBLK1-R99799t	Run ID: SUB_130531J				Units: µg/Kg	Analysis Date: 5/31/2013 02:02 PM			
Client ID:		SeqNo: 626964				Prep Date: 5/28/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	1.6								
4,4'-DDE	ND	1.6								
4,4'-DDT	ND	1.6								
Aldrin	ND	1.6								
alpha-BHC	ND	1.6								
alpha-Chlordane	ND	1.6								
beta-BHC	ND	1.6								
delta-BHC	ND	1.6								
Dieldrin	ND	1.6								
Endosulfan I	ND	1.6								
Endosulfan II	ND	1.6								
Endosulfan sulfate	ND	1.6								
Endrin	ND	1.6								
Endrin aldehyde	ND	1.6								
Endrin ketone	ND	1.6								
gamma-BHC (Lindane)	ND	1.6								
gamma-Chlordane	ND	1.6								
Heptachlor	ND	1.6								
Heptachlor epoxide	ND	1.6								
Methoxychlor	ND	1.6								
Toxaphene	ND	33								
<i>Surr: Decachlorobiphenyl</i>	81.2	0	100	0	81.2	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	53.7	0	100	0	53.7	39-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305450
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99799t** Instrument ID: **SUB** Method: **SW8081A**

MBLK	Sample ID: MBLK2-R99799t	Run ID: SUB_130531J				Units: µg/Kg	Analysis Date: 6/12/2013 12:02 AM			
Client ID:		SeqNo: 626968				Prep Date: 6/5/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	1.6								
4,4'-DDE	ND	1.6								
4,4'-DDT	ND	1.6								
Aldrin	ND	1.6								
alpha-BHC	ND	1.6								
alpha-Chlordane	ND	1.6								
beta-BHC	ND	1.6								
delta-BHC	ND	1.6								
Dieldrin	ND	1.6								
Endosulfan I	ND	1.6								
Endosulfan II	ND	1.6								
Endosulfan sulfate	ND	1.6								
Endrin	ND	1.6								
Endrin aldehyde	ND	1.6								
Endrin ketone	ND	1.6								
gamma-BHC (Lindane)	ND	1.6								
gamma-Chlordane	ND	1.6								
Heptachlor	ND	1.6								
Heptachlor epoxide	ND	1.6								
Methoxychlor	ND	1.6								
Toxaphene	ND	33								
<i>Surr: Decachlorobiphenyl</i>	49.2	0	100	0	49.2	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	36.4	0	100	0	36.4	39-130	0			S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305450
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99799t** Instrument ID: **SUB** Method: **SW8081A**

LCS		Sample ID: LCS1-R99799t			Units: µg/Kg		Analysis Date: 5/31/2013 02:30 PM			
Client ID:		Run ID: SUB_130531J			SeqNo: 626965		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	13	1.6	16.7	0	77.8	60-110	0			
4,4'-DDE	12.8	1.6	16.7	0	76.6	55-110	0			
4,4'-DDT	14.9	1.6	16.7	0	89.2	60-115	0			
Aldrin	11.6	1.6	16.7	0	69.5	50-100	0			
alpha-BHC	11.8	1.6	16.7	0	70.7	50-100	0			
alpha-Chlordane	12.5	1.6	16.7	0	74.9	55-105	0			
beta-BHC	12.3	1.6	16.7	0	73.7	50-100	0			
delta-BHC	12.4	1.6	16.7	0	74.3	50-110	0			
Dieldrin	12.6	1.6	16.7	0	75.4	60-110	0			
Endosulfan I	9.78	1.6	16.7	0	58.6	40-100	0			
Endosulfan II	10.5	1.6	16.7	0	62.9	40-100	0			
Endosulfan sulfate	12.4	1.6	16.7	0	74.3	45-115	0			
Endrin	12.9	1.6	16.7	0	77.2	55-100	0			
Endrin aldehyde	11.4	1.6	16.7	0	68.3	45-110	0			
Endrin ketone	12.9	1.6	16.7	0	77.2	55-115	0			
gamma-BHC (Lindane)	12.2	1.6	16.7	0	73.1	50-100	0			
gamma-Chlordane	14.2	1.6	16.7	0	85	50-110	0			
Heptachlor	12.2	1.6	16.7	0	73.1	50-105	0			
Heptachlor epoxide	13.3	1.6	16.7	0	79.6	55-105	0			
Methoxychlor	19.9	1.6	16.7	0	119	60-125	0			
<i>Surr: Decachlorobiphenyl</i>	85.5	0	100	0	85.5	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	60.5	0	100	0	60.5	39-130	0			

LCS		Sample ID: LCS1-R99799t			Units: µg/Kg		Analysis Date: 5/31/2013 02:58 PM			
Client ID:		Run ID: SUB_130531J			SeqNo: 626969		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Toxaphene	47.3	33	66.7	0	70.9	25-138	0			
<i>Surr: Decachlorobiphenyl</i>	76	0	100	0	76	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	48	0	100	0	48	39-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305450
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99799t** Instrument ID: **SUB** Method: **SW8081A**

LCS		Sample ID: LCS2-R99799t			Units: µg/Kg		Analysis Date: 6/12/2013 12:30 AM			
Client ID:		Run ID: SUB_130531J			SeqNo: 626970		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	10.9	1.6	16.7	0	65.3	60-110	0			
4,4'-DDE	10.7	1.6	16.7	0	64.1	55-110	0			
4,4'-DDT	12.3	1.6	16.7	0	73.7	60-115	0			
Aldrin	9.13	1.6	16.7	0	54.7	50-100	0			
alpha-BHC	9.53	1.6	16.7	0	57.1	50-100	0			
alpha-Chlordane	9.93	1.6	16.7	0	59.5	55-105	0			
beta-BHC	10.3	1.6	16.7	0	61.7	50-100	0			
delta-BHC	10.5	1.6	16.7	0	62.9	50-110	0			
Dieldrin	10.5	1.6	16.7	0	62.9	60-110	0			
Endosulfan I	11	1.6	16.7	0	65.9	40-100	0			
Endosulfan II	11	1.6	16.7	0	65.9	40-100	0			
Endosulfan sulfate	11.1	1.6	16.7	0	66.5	45-115	0			
Endrin	11.7	1.6	16.7	0	70.1	55-100	0			
Endrin aldehyde	9.66	1.6	16.7	0	57.8	45-110	0			
Endrin ketone	10	1.6	16.7	0	59.9	55-115	0			
gamma-BHC (Lindane)	10.1	1.6	16.7	0	60.5	50-100	0			
gamma-Chlordane	12.7	1.6	16.7	0	76	50-110	0			
Heptachlor	10.4	1.6	16.7	0	62.3	50-105	0			
Heptachlor epoxide	11.2	1.6	16.7	0	67.1	55-105	0			
Methoxychlor	13.3	1.6	16.7	0	79.6	60-125	0			
<i>Surr: Decachlorobiphenyl</i>	77.7	0	100	0	77.7	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	51	0	100	0	51	39-130	0			

LCS		Sample ID: LCS2-R99799t			Units: µg/Kg		Analysis Date: 6/12/2013 12:57 AM			
Client ID:		Run ID: SUB_130531J			SeqNo: 626971		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Toxaphene	52.4	33	66.7	0	78.6	25-138	0			
<i>Surr: Decachlorobiphenyl</i>	81.3	0	100	0	81.3	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	49.6	0	100	0	49.6	39-130	0			

The following samples were analyzed in this batch: 1305450-07C 1305450-22C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305450
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99799u** Instrument ID: **SUB** Method: **SW8151**

MBLK		Sample ID: MBLK-R99799u			Units: µg/Kg		Analysis Date: 6/3/2013 05:22 PM			
Client ID:		Run ID: SUB_130531J			SeqNo: 626972		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	ND	4.0								
2,4,5-TP (Silvex)	ND	3.0								
2,4-D	ND	40								
2,4-DB	ND	40								
Dalapon	ND	100								
Dicamba	ND	4.0								
Dichlorprop	ND	40								
Dinoseb	ND	20								
MCPA	ND	4,000								
MCPD	ND	4,000								
Pentachlorophenol	ND	4.0								
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	91.8	0	100	0	91.8	25-110	0			

LCS		Sample ID: LCS-R99799u			Units: µg/Kg		Analysis Date: 6/3/2013 05:47 PM			
Client ID:		Run ID: SUB_130531J			SeqNo: 626973		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	7.45	4.0	10	0	74.5	25-120	0			
2,4,5-TP (Silvex)	6.88	3.0	10	0	68.8	30-125	0			
2,4-D	56.8	40	100	0	56.8	15-120	0			
2,4-DB	715	40	100	0	715	20-125	0			S
Dalapon	135	100	250	0	54	10-105	0			
Dicamba	9.67	4.0	10	0	96.7	45-150	0			
Dichlorprop	74.8	40	100	0	74.8	20-130	0			
Dinoseb	33.7	20	50	0	67.4	25-125	0			
MCPA	5960	4,000	10000	0	59.6	10-120	0			
MCPD	5980	4,000	10000	0	59.8	10-130	0			
Pentachlorophenol	5.52	4.0	10	0	55.2	30-110	0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	96.4	0	100	0	96.4	20-144	0			

The following samples were analyzed in this batch:

1305450-07B	1305450-22B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305450
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID: SVMS2 Method: SW8270C

MBLK		Sample ID: MBLK-16817-16817			Units: µg/Kg		Analysis Date: 5/24/2013 07:10 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615805		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	330								
1,2,4-Trichlorobenzene	ND	330								
1,2-Dichlorobenzene	ND	330								
1,3-Dichlorobenzene	ND	330								
1,3-Dinitrobenzene	ND	330								
1,4-Dichlorobenzene	ND	330								
1-Methylnaphthalene	ND	330								
1-Naphthylamine	ND	330								
2,3,4,6-Tetrachlorophenol	ND	330								
2,4,5-Trichlorophenol	ND	330								
2,4,6-Trichlorophenol	ND	330								
2,4-Dichlorophenol	ND	330								
2,4-Dimethylphenol	ND	330								
2,4-Dinitrophenol	ND	1,600								
2,4-Dinitrotoluene	ND	330								
2,6-Dichlorophenol	ND	330								
2,6-Dinitrotoluene	ND	330								
2-Acetylaminofluorene	ND	330								
2-Chloronaphthalene	ND	330								
2-Chlorophenol	ND	330								
2-Methylnaphthalene	ND	330								
2-Methylphenol	ND	330								
2-Naphthylamine	ND	330								
2-Nitroaniline	ND	1,600								
2-Nitrophenol	ND	330								
2-Picoline	ND	330								
3&4-Methylphenol	ND	330								
3,3'-Dichlorobenzidine	ND	660								
3-Methylcholanthrene	ND	330								
3-Nitroaniline	ND	1,600								
4,6-Dinitro-2-methylphenol	ND	1,600								
4-Aminobiphenyl	ND	660								
4-Bromophenyl phenyl ether	ND	330								
4-Chloro-3-methylphenol	ND	660								
4-Chloroaniline	ND	660								
4-Chlorophenyl phenyl ether	ND	330								
4-Nitroaniline	ND	660								
4-Nitrophenol	ND	1,600								
4-Nitroquinoline 1-oxide	ND	330								
5-Nitro-o-toluidine	ND	330								
7,12-Dimethylbenz(a)anthracene	ND	330								
Acenaphthene	ND	330								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305450
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817	Instrument ID: SVMS2	Method: SW8270C
Acenaphthylene	ND	330
Acetophenone	ND	330
Aniline	ND	330
Anthracene	ND	330
Azobenzene	ND	330
Benzidine	ND	330
Benzo(a)anthracene	ND	330
Benzo(a)pyrene	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(g,h,i)perylene	ND	330
Benzo(k)fluoranthene	ND	330
Benzyl alcohol	ND	660
Bis(2-chloroethoxy)methane	ND	330
Bis(2-chloroethyl)ether	ND	330
Bis(2-chloroisopropyl)ether	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Butyl benzyl phthalate	ND	330
Carbazole	ND	330
Chrysene	ND	330
Dibenzo(a,h)anthracene	ND	330
Dibenzofuran	ND	330
Diethyl phthalate	ND	330
Dimethyl phthalate	ND	330
Di-n-butyl phthalate	ND	330
Di-n-octyl phthalate	ND	330
Dinoseb	ND	330
Diphenylamine	ND	330
Ethyl methanesulfonate	ND	330
Fluoranthene	ND	330
Fluorene	ND	330
Hexachlorobenzene	ND	330
Hexachlorobutadiene	ND	330
Hexachlorocyclopentadiene	ND	330
Hexachloroethane	ND	330
Indeno(1,2,3-cd)pyrene	ND	150
Isophorone	ND	330
Isosafrole	ND	330
Methapyrilene	ND	330
Methyl methanesulfonate	ND	330
Naphthalene	ND	330
Nitrobenzene	ND	330
N-Nitrosodiethylamine	ND	330
N-Nitrosodimethylamine	ND	330
N-Nitroso-di-n-butylamine	ND	330
N-Nitrosodi-n-propylamine	ND	330
N-Nitrosomethylethylamine	ND	330
N-Nitrosomorpholine	ND	330
N-Nitrosopiperidine	ND	330

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305450
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817	Instrument ID: SVMS2	Method: SW8270C					
N-Nitrosopyrrolidine	ND	330					
o-Toluidine	ND	330					
p-Dimethylaminoazobenzene	ND	330					
Pentachlorobenzene	ND	330					
Pentachloroethane	ND	330					
Pentachloronitrobenzene	ND	660					
Pentachlorophenol	ND	1,600					
Phenacetin	ND	660					
Phenanthrene	ND	330					
Phenol	ND	330					
Pyrene	ND	330					
Pyridine	ND	330					
Safrole	ND	330					
<i>Surr: 2,4,6-Tribromophenol</i>	2682	0	3330	0	80.6	18-115	0
<i>Surr: 2-Fluorobiphenyl</i>	1329	0	1670	0	79.6	30-116	0
<i>Surr: 2-Fluorophenol</i>	1905	0	3330	0	57.2	24-105	0
<i>Surr: 4-Terphenyl-d14</i>	1212	0	1670	0	72.6	40-127	0
<i>Surr: Nitrobenzene-d5</i>	1542	0	1670	0	92.3	32-106	0
<i>Surr: Phenol-d5</i>	2333	0	3330	0	70.1	39-123	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305450
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID: SVMS2 Method: SW8270C

LCS		Sample ID: LCS-16817-16817			Units: µg/Kg		Analysis Date: 5/24/2013 07:45 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615806		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1214	330	1670	0	72.7	48.1-106	0			
1,4-Dichlorobenzene	1167	330	1670	0	69.9	55.5-89.4	0			
2,4-Dinitrotoluene	1486	330	1670	0	89	58.8-123	0			
2-Chlorophenol	1140	330	1670	0	68.3	34.7-116	0			
4-Chloro-3-methylphenol	1449	660	1670	0	86.8	32.1-109	0			
4-Nitrophenol	ND	1,600	1670	0	74.9	36.2-146	0			
Acenaphthene	1263	330	1670	0	75.6	67.8-104	0			
Acenaphthylene	1222	330	1670	0	73.2	65.6-103	0			
Anthracene	1317	330	1670	0	78.8	71.1-107	0			
Benzo(a)anthracene	1365	330	1670	0	81.7	60.4-118	0			
Benzo(a)pyrene	1536	330	1670	0	92	73.7-110	0			
Benzo(b)fluoranthene	1475	330	1670	0	88.3	59.9-94.8	0			
Benzo(g,h,i)perylene	1355	330	1670	0	81.2	40-129	0			
Benzo(k)fluoranthene	1412	330	1670	0	84.5	75.7-130	0			
Carbazole	1699	330	1670	0	102	69.6-107	0			
Chrysene	1429	330	1670	0	85.6	62.3-115	0			
Dibenzo(a,h)anthracene	1282	330	1670	0	76.8	59.2-121	0			
Fluoranthene	1436	330	1670	0	86	63-120	0			
Fluorene	1265	330	1670	0	75.7	69-106	0			
Indeno(1,2,3-cd)pyrene	1284	150	1670	0	76.9	59-110	0			
Naphthalene	1205	330	1670	0	72.2	49.1-103	0			
N-Nitrosodi-n-propylamine	1352	330	1670	0	80.9	25.3-127	0			
Pentachlorophenol	1621	1,600	1670	0	97.1	22.1-105	0			
Phenanthrene	1342	330	1670	0	80.3	70-112	0			
Phenol	1147	330	1670	0	68.7	36.9-97.8	0			
Pyrene	1344	330	1670	0	80.5	55-117	0			
<i>Surr: 2,4,6-Tribromophenol</i>	2259	0	3330	0	67.8	18-115	0			
<i>Surr: 2-Fluorobiphenyl</i>	1156	0	1670	0	69.2	30-116	0			
<i>Surr: 2-Fluorophenol</i>	1944	0	3330	0	58.4	24-105	0			
<i>Surr: 4-Terphenyl-d14</i>	1130	0	1670	0	67.7	40-127	0			
<i>Surr: Nitrobenzene-d5</i>	1177	0	1670	0	70.5	32-106	0			
<i>Surr: Phenol-d5</i>	2183	0	3330	0	65.6	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305450
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID: SVMS2 Method: SW8270C

MS		Sample ID: ms 1305471-02b			Units: µg/Kg		Analysis Date: 5/24/2013 08:19 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615807		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1209	330	1669	0	72.4	50.6-92	0			
1,4-Dichlorobenzene	1132	330	1669	0	67.8	40.1-84.3	0			
2,4-Dinitrotoluene	1406	330	1669	0	84.2	50.3-127	0			
2-Chlorophenol	1107	330	1669	0	66.3	33.3-109	0			
4-Chloro-3-methylphenol	1449	660	1669	0	86.8	35.8-116	0			
4-Nitrophenol	ND	1,600	1669	0	92.5	38.7-135	0			
Acenaphthene	1237	330	1669	0	74.1	54.1-109	0			
Acenaphthylene	1214	330	1669	0	72.7	55.3-118	0			
Anthracene	1280	330	1669	0	76.7	51-106	0			
Benzo(a)anthracene	1287	330	1669	0	77.1	31.6-128	0			
Benzo(a)pyrene	1465	330	1669	0	87.8	66.1-109	0			
Benzo(b)fluoranthene	1431	330	1669	0	85.7	56.8-87.8	0			
Benzo(g,h,i)perylene	1411	330	1669	0	84.5	37.7-113	0			
Benzo(k)fluoranthene	1412	330	1669	0	84.6	57-119	0			
Carbazole	1749	330	1669	0	105	28.5-114	0			
Chrysene	1329	330	1669	0	79.6	46.3-104	0			
Dibenzo(a,h)anthracene	1271	330	1669	0	76.1	48.8-123	0			
Fluoranthene	1354	330	1669	0	81.1	52-120	0			
Fluorene	1261	330	1669	0	75.5	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1252	150	1669	0	75	56.1-118	0			
Naphthalene	1199	330	1669	0	71.8	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1359	330	1669	0	81.4	46.5-116	0			
Pentachlorophenol	1685	1,600	1669	0	101	28.9-156	0			
Phenanthrene	1284	330	1669	0	76.9	52-105	0			
Phenol	1109	330	1669	0	66.4	25.9-90.3	0			
Pyrene	1295	330	1669	0	77.6	51-111	0			
Surr: 2,4,6-Tribromophenol	2319	0	3329	0	69.7	18-115	0			
Surr: 2-Fluorobiphenyl	1191	0	1669	0	71.3	30-116	0			
Surr: 2-Fluorophenol	2114	0	3329	0	63.5	24-105	0			
Surr: 4-Terphenyl-d14	1103	0	1669	0	66.1	40-127	0			
Surr: Nitrobenzene-d5	1232	0	1669	0	73.8	32-106	0			
Surr: Phenol-d5	2272	0	3329	0	68.2	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305450
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID: SVMS2 Method: SW8270C

MSD		Sample ID: msd 1305471-02b			Units: µg/Kg		Analysis Date: 5/24/2013 08:54 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615808		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1218	330	1670	0	72.9	50.6-92	0			
1,4-Dichlorobenzene	1158	330	1670	0	69.4	40.1-84.3	0			
2,4-Dinitrotoluene	1406	330	1670	0	84.2	50.3-127	0			
2-Chlorophenol	1131	330	1670	0	67.7	33.3-109	0			
4-Chloro-3-methylphenol	1468	660	1670	0	87.9	35.8-116	0			
4-Nitrophenol	ND	1,600	1670	0	74.5	38.7-135	0			
Acenaphthene	1248	330	1670	0	74.7	54.1-109	0			
Acenaphthylene	1227	330	1670	0	73.5	55.3-118	0			
Anthracene	1272	330	1670	0	76.2	51-106	0			
Benzo(a)anthracene	1206	330	1670	0	72.2	31.6-128	0			
Benzo(a)pyrene	1456	330	1670	0	87.2	66.1-109	0			
Benzo(b)fluoranthene	1309	330	1670	0	78.4	56.8-87.8	0			
Benzo(g,h,i)perylene	1466	330	1670	0	87.8	37.7-113	0			
Benzo(k)fluoranthene	1385	330	1670	0	83	57-119	0			
Carbazole	1770	330	1670	0	106	28.5-114	0			
Chrysene	1232	330	1670	0	73.8	46.3-104	0			
Dibenzo(a,h)anthracene	1342	330	1670	0	80.4	48.8-123	0			
Fluoranthene	1328	330	1670	0	79.5	52-120	0			
Fluorene	1249	330	1670	0	74.8	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1348	150	1670	0	80.7	56.1-118	0			
Naphthalene	1212	330	1670	0	72.6	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1377	330	1670	0	82.5	46.5-116	0			
Pentachlorophenol	1607	1,600	1670	0	96.2	28.9-156	0			
Phenanthrene	1287	330	1670	0	77.1	52-105	0			
Phenol	1114	330	1670	0	66.7	25.9-90.3	0			
Pyrene	1244	330	1670	0	74.5	51-111	0			
Surr: 2,4,6-Tribromophenol	2249	0	3330	0	67.5	18-115	0			
Surr: 2-Fluorobiphenyl	1197	0	1670	0	71.7	30-116	0			
Surr: 2-Fluorophenol	2154	0	3330	0	64.7	24-105	0			
Surr: 4-Terphenyl-d14	1077	0	1670	0	64.5	40-127	0			
Surr: Nitrobenzene-d5	1250	0	1670	0	74.9	32-106	0			
Surr: Phenol-d5	2298	0	3330	0	69	39-123	0			

The following samples were analyzed in this batch:

1305450-07D	1305450-22D
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305450
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99227** Instrument ID: **VMS1** Method: **SW8260**

MBLK		Sample ID: MBLK-R99227			Units: µg/L		Analysis Date: 5/22/2013 07:53 AM			
Client ID:		Run ID: VMS1_130522A			SeqNo: 612437		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305450
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99227	Instrument ID: VMS1	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	2.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	49.05	0	50	0	98.1	61-131	0
<i>Surr: Dibromofluoromethane</i>	49.07	0	50	0	98.1	87-126	0
<i>Surr: Toluene-d8</i>	49.91	0	50	0	99.8	84-111	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305450
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99227** Instrument ID: **VMS1** Method: **SW8260**

LCS		Sample ID: LCS-R99227			Units: µg/L		Analysis Date: 5/22/2013 08:23 AM			
Client ID:		Run ID: VMS1_130522A			SeqNo: 612438		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	42.6	5.0	50	0	85.2	48.4-140	0			
1,1-Dichloroethene	43.52	5.0	50	0	87	45.5-150	0			
1,2-Dichloroethane	42.9	5.0	50	0	85.8	46.5-141	0			
1,3-Dichlorobenzene	41.39	5.0	50	0	82.8	42.5-133	0			
1,4-Dichlorobenzene	41.07	5.0	50	0	82.1	38.9-136	0			
Benzene	43.39	5.0	50	0	86.8	50.7-134	0			
Carbon tetrachloride	44.08	5.0	50	0	88.2	45.5-143	0			
Chlorobenzene	42.52	5.0	50	0	85	45-133	0			
Chloroform	43.02	5.0	50	0	86	52.4-136	0			
cis-1,2-Dichloroethene	41.21	5.0	50	0	82.4	49.7-138	0			
Ethylbenzene	42.16	5.0	50	0	84.3	37.8-145	0			
m,p-Xylene	86.09	5.0	100	0	86.1	25.1-163	0			
Styrene	46.12	5.0	50	0	92.2	26.3-172	0			
Tetrachloroethene	40.63	5.0	50	0	81.3	37.3-139	0			
Toluene	42.64	5.0	50	0	85.3	44-135	0			
Trichloroethene	42.71	5.0	50	0	85.4	46.9-134	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.46	0	50	0	98.9	61-131	0			
<i>Surr: Dibromofluoromethane</i>	51.32	0	50	0	103	87-126	0			
<i>Surr: Toluene-d8</i>	51.08	0	50	0	102	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305450
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99227** Instrument ID: **VMS1** Method: **SW8260**

MS		Sample ID: 1305420-04A MS			Units: µg/L		Analysis Date: 5/22/2013 10:23 AM			
Client ID:		Run ID: VMS1_130522A			SeqNo: 613315		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	47.09	5.0	50	0	94.2	47.4-141	0			
1,1-Dichloroethene	47.91	5.0	50	0	95.8	56.3-140	0			
1,2-Dichloroethane	47.1	5.0	50	0	94.2	50.1-139	0			
1,3-Dichlorobenzene	43.16	5.0	50	0	86.3	53-127	0			
1,4-Dichlorobenzene	41.99	5.0	50	0	84	53.4-129	0			
Benzene	46.51	5.0	50	0	93	52.8-136	0			
Carbon tetrachloride	48.75	5.0	50	0	97.5	48.1-141	0			
Chlorobenzene	45.02	5.0	50	0	90	52.4-132	0			
Chloroform	45.81	5.0	50	0	91.6	52.9-136	0			
cis-1,2-Dichloroethene	45.33	5.0	50	0	90.7	63.5-128	0			
Ethylbenzene	43.8	5.0	50	0	87.6	46.5-146	0			
m,p-Xylene	88.58	5.0	100	0	88.6	38.2-167	0			
Styrene	43.97	5.0	50	0	87.9	20.9-184	0			
Tetrachloroethene	42.48	5.0	50	0	85	55.2-134	0			
Toluene	45.47	5.0	50	0	90.9	45.1-138	0			
Trichloroethene	46.86	5.0	50	0	93.7	52.8-133	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.79	0	50	0	97.6	61-131	0			
<i>Surr: Dibromofluoromethane</i>	51.14	0	50	0	102	87-126	0			
<i>Surr: Toluene-d8</i>	50.55	0	50	0	101	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305450
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99227** Instrument ID: **VMS1** Method: **SW8260**

MSD		Sample ID: 1305420-04A MSD				Units: µg/L		Analysis Date: 5/22/2013 09:23 AM		
Client ID:		Run ID: VMS1_130522A				SeqNo: 612440		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	53.05	5.0	50	0	106	47.4-141	47.09	11.9	20	
1,1-Dichloroethene	52.81	5.0	50	0	106	56.3-140	47.91	9.73	20	
1,2-Dichloroethane	53.2	5.0	50	0	106	50.1-139	47.1	12.2	20	
1,3-Dichlorobenzene	48.51	5.0	50	0	97	53-127	43.16	11.7	20	
1,4-Dichlorobenzene	46.74	5.0	50	0	93.5	53.4-129	41.99	10.7	20	
Benzene	51.71	5.0	50	0	103	52.8-136	46.51	10.6	20	
Carbon tetrachloride	56.78	5.0	50	0	114	48.1-141	48.75	15.2	20	
Chlorobenzene	50.38	5.0	50	0	101	52.4-132	45.02	11.2	20	
Chloroform	50.73	5.0	50	0	101	52.9-136	45.81	10.2	20	
cis-1,2-Dichloroethene	49.63	5.0	50	0	99.3	63.5-128	45.33	9.06	20	
Ethylbenzene	50.3	5.0	50	0	101	46.5-146	43.8	13.8	20	
m,p-Xylene	101	5.0	100	0	101	38.2-167	88.58	13.1	20	
Styrene	52.12	5.0	50	0	104	20.9-184	43.97	17	20	
Tetrachloroethene	48.99	5.0	50	0	98	55.2-134	42.48	14.2	20	
Toluene	51.63	5.0	50	0	103	45.1-138	45.47	12.7	20	
Trichloroethene	52.39	5.0	50	0	105	52.8-133	46.86	11.1	20	
<i>Surr: 4-Bromofluorobenzene</i>	49.39	0	50	0	98.8	61-131	48.79	1.22		
<i>Surr: Dibromofluoromethane</i>	50.84	0	50	0	102	87-126	51.14	0.588		
<i>Surr: Toluene-d8</i>	50.18	0	50	0	100	84-111	50.55	0.735		

The following samples were analyzed in this batch:

1305450-25A

Client: AECOM
Work Order: 1305450
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99267** Instrument ID: **VMS2** Method: **SW8260**

MBLK		Sample ID: MBLK-R99267			Units: µg/Kg		Analysis Date: 5/23/2013 10:03 AM			
Client ID:		Run ID: VMS2_130523A			SeqNo: 613596		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305450
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99267	Instrument ID: VMS2	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	5.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	49.62	0	50	0	99.2	62.7-159	0
<i>Surr: Dibromofluoromethane</i>	50.43	0	50	0	101	88.2-133	0
<i>Surr: Toluene-d8</i>	49.42	0	50	0	98.8	81.5-110	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305450
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99267** Instrument ID: **VMS2** Method: **SW8260**

LCS		Sample ID: LCS-R99267			Units: µg/Kg		Analysis Date: 5/23/2013 11:06 AM			
Client ID:		Run ID: VMS2_130523A			SeqNo: 613598		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	43.55	5.0	50	0	87.1	70-132	0			
1,1-Dichloroethene	42.78	5.0	50	0	85.6	61.2-140	0			
1,2-Dichloroethane	47.82	5.0	50	0	95.6	67.3-139	0			
1,3-Dichlorobenzene	43.68	5.0	50	0	87.4	67.5-126	0			
1,4-Dichlorobenzene	41.75	5.0	50	0	83.5	69.5-124	0			
Benzene	42.09	5.0	50	0	84.2	67.2-135	0			
Carbon tetrachloride	42.88	5.0	50	0	85.8	68.6-138	0			
Chlorobenzene	41.38	5.0	50	0	82.8	66.4-133	0			
Chloroform	43.22	5.0	50	0	86.4	68.2-127	0			
cis-1,2-Dichloroethene	42.98	5.0	50	0	86	62.1-135	0			
Ethylbenzene	41	5.0	50	0	82	67.8-132	0			
m,p-Xylene	83.42	5.0	100	0	83.4	66.4-132	0			
Styrene	41.08	5.0	50	0	82.2	67.6-134	0			
Tetrachloroethene	41.91	5.0	50	0	83.8	70.3-144	0			
Toluene	43.13	5.0	50	0	86.3	67.8-130	0			
Trichloroethene	43.34	5.0	50	0	86.7	68.5-136	0			
<i>Surr: 4-Bromofluorobenzene</i>	50	0	50	0	100	62.7-159	0			
<i>Surr: Dibromofluoromethane</i>	52.3	0	50	0	105	88.2-133	0			
<i>Surr: Toluene-d8</i>	50.52	0	50	0	101	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305450
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99267** Instrument ID: **VMS2** Method: **SW8260**

MS		Sample ID: 1305378-02A MS			Units: µg/Kg		Analysis Date: 5/23/2013 12:10 PM			
Client ID:		Run ID: VMS2_130523A			SeqNo: 613600		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	60.26	5.0	50	0	121	66.9-140	0			
1,1-Dichloroethene	60.29	5.0	50	0	121	65.9-143	0			
1,2-Dichloroethane	61.19	5.0	50	0	122	73-135	0			
1,3-Dichlorobenzene	57.61	5.0	50	0	115	61.2-125	0			
1,4-Dichlorobenzene	56.67	5.0	50	0	113	62.3-123	0			
Benzene	59.97	5.0	50	0	120	35.8-162	0			
Carbon tetrachloride	60.88	5.0	50	0	122	71.4-130	0			
Chlorobenzene	57.5	5.0	50	0	115	65.6-137	0			
Chloroform	60.64	5.0	50	0	121	69.6-128	0			
cis-1,2-Dichloroethene	60.64	5.0	50	0	121	68.8-130	0			
Ethylbenzene	56.76	5.0	50	0	114	68.6-124	0			
m,p-Xylene	114.5	5.0	100	0	115	64.5-125	0			
Styrene	57.94	5.0	50	0	116	65.9-125	0			
Tetrachloroethene	58.55	5.0	50	0	117	71.6-135	0			
Toluene	58.51	5.0	50	0	117	67.7-135	0			
Trichloroethene	59.93	5.0	50	0	120	70.9-139	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.86	0	50	0	97.7	62.7-159	0			
<i>Surr: Dibromofluoromethane</i>	50.28	0	50	0	101	88.2-133	0			
<i>Surr: Toluene-d8</i>	50.93	0	50	0	102	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305450
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99267** Instrument ID: **VMS2** Method: **SW8260**

MSD		Sample ID: 1305378-02A MSD			Units: µg/Kg		Analysis Date: 5/23/2013 01:13 PM			
Client ID:		Run ID: VMS2_130523A			SeqNo: 613602		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	63.06	5.0	50	0	126	66.9-140	60.26	4.54	20	
1,1-Dichloroethene	61.23	5.0	50	0	122	65.9-143	60.29	1.55	20	
1,2-Dichloroethane	63.61	5.0	50	0	127	73-135	61.19	3.88	20	
1,3-Dichlorobenzene	61.44	5.0	50	0	123	61.2-125	57.61	6.43	21	
1,4-Dichlorobenzene	58.94	5.0	50	0	118	62.3-123	56.67	3.93	22.5	
Benzene	61.17	5.0	50	0	122	35.8-162	59.97	1.98	23.6	
Carbon tetrachloride	64.67	5.0	50	0	129	71.4-130	60.88	6.04	22.9	
Chlorobenzene	59.51	5.0	50	0	119	65.6-137	57.5	3.44	20	
Chloroform	60.9	5.0	50	0	122	69.6-128	60.64	0.428	23.1	
cis-1,2-Dichloroethene	60.15	5.0	50	0	120	68.8-130	60.64	0.811	23.7	
Ethylbenzene	60.21	5.0	50	0	120	68.6-124	56.76	5.9	24.9	
m,p-Xylene	121.2	5.0	100	0	121	64.5-125	114.5	5.62	25.1	
Styrene	60.28	5.0	50	0	121	65.9-125	57.94	3.96	22.8	
Tetrachloroethene	62	5.0	50	0	124	71.6-135	58.55	5.72	24.7	
Toluene	61.09	5.0	50	0	122	67.7-135	58.51	4.31	20	
Trichloroethene	62.44	5.0	50	0	125	70.9-139	59.93	4.1	20	
<i>Surr: 4-Bromofluorobenzene</i>	49.7	0	50	0	99.4	62.7-159	48.86	1.7		
<i>Surr: Dibromofluoromethane</i>	49.45	0	50	0	98.9	88.2-133	50.28	1.66		
<i>Surr: Toluene-d8</i>	49.78	0	50	0	99.6	81.5-110	50.93	2.28		

The following samples were analyzed in this batch:

1305450-07A	1305450-22A
-------------	-------------

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 17-Jun-13

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305450

Analytical Comments

Method	Type:	SampID	SeqNo	Analysis	Comments
Batch <u>16835</u>					
	Analysis	1305450-22D	617226	PCBs	TCMX surrogate could not be calculated due to sample matrix interference.
Batch <u>R99799u</u>					
	Analysis	1305450-07B	626974	Herbicides	Concentrations >40% difference between the two GC columns for Dicamba
	Analysis	1305450-22B	626975	Herbicides	Sample was run at x20 dilution. Surrogate recovery was diluted out.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
WorkOrder: 1305450

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
% of sample	
µg/Kg	
µg/Kg-dry	
µg/L	
mg/Kg	
mg/Kg-dry	

Sample Receipt Checklist

Client Name: AECOM-CINCINNATI

Date/Time Received: 21-May-13 00:00

Work Order: 1305450

Received by: SJW

Checklist completed by: Steve Wilcox 21-May-13
eSignature Date

Reviewed by: Jeff Ogle 29-May-13
eSignature Date

Matrices:

Carrier name: Client

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 2.5

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

[Empty text box for comments]

CorrectiveAction:

[Empty text box for corrective action]



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Chain of Custody Form

1305450

Page 1 of 3

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ALS Project Manager: ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	PCB 8082											
Work Order		Project Number	60299534	B	Metals 6010											
Company Name	AECOM	Bill To Company	AECOM	C	Herbicides 8151											
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D	Pesticides 8081											
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E	VOC 5035											
				F	SVOC 8270											
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G												
Phone	(513) 878-6853	Phone	(513) 878-6844	H												
Fax	(513) 878-6848	Fax	(513) 878-6848	I												
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold	
1	IA#1 S6-0002	5/21/13	0806	So, l	none	1	X											-01
2	IA#1 S6-0204		0807			1	X											-02
3	IA#1 S6-0406		0808			1	X											-03
4	IA#1 S6-0608		0817			1	X											-04
5	IA#1 S6-0810		0828			1	X											-05
6	IA#1 S7-0005		1110			1	X											-06
7	IA#1 S7-0506		1125			7	X	X	X	X	X	X						-07
8	IA#1 S7-0608		1130			1	X											-08
9	IA#1 S7-0810		1132			1	X											-09
10	IA#1 S8-0002		1158			1	X											-10

Sampler(s) Please Print & Sign: *Michael Kapp / Mike Kapp* Shipment Method: *FedEx* Required Turnaround Time: (Check Box) Std 10 WK Days 5 WK Days Other 2 WK Days 24 Hour Results Due Date:

Relinquished by: *Michael Kapp* Date: *5/21/13* Time: *1315* Received by: Notes:

Relinquished by: *Steve Wilson* Date: *5/21/13* Time: *19:00* Received by (Laboratory): *Steve Wilson* Cooler ID: Cooler Temp.: QC Package: (Check One Box Below)

Logged by (Laboratory): Date: Time: Checked by (Laboratory): Delivery Method: Cooling Ice Pack Ice gel IV Method: None Cooler

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035 Custody Cooler Package Seals On: Samples None Temp in Celcius: *2.5*

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated.
3. The Chain of Custody is a legal document. All information must be completed accurately.



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1305450

Page 2 of 3

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	PCB 8082										
Work Order		Project Number	60299534	B											
Company Name	AECOM	Bill To Company	AECOM	C											
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D											
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E											
				F											
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G											
Phone	(513) 878-6853	Phone	(513) 878-6844	H											
Fax	(513) 878-6848	Fax	(513) 878-6848	I											
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	IA #1 S8-0204	5/21/13	1200	Soil	none	1	X										-11
2	IA #1 S8-0204-B		1200			1	X										-12
3	IA #1 S8-046.8		1201			1	X										-13
4	IA #1 S9-0002		0957			1	X										-14
5	IA #1 S9-0204		0958			1	X										-15
6	IA #1 S9-0406		0959			1	X										-16
7	IA #1 S9-0608		1013			1	X										-17
8	IA #1 S9-0810		1015			1	X										-18
9	IA #1 S9-1012		1028			1	X										-19
10	IA #1 S9-1215		1030			1	X										-20

Sampler(s) Please Print & Sign <i>Michael Pepp / Mike Pepp</i>		Shipment Method <i>Fed Ex</i>		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:			
Relinquished by: <i>Mike Pepp</i>	Date: 5/21/13	Time: 1315	Received by:		Notes:						
Relinquished by:	Date: 5/21/13	Time: 19:00	Received by (Laboratory): <i>Steve Weber</i>		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)				
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):				<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP CheckList			
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035							<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV			
							<input type="checkbox"/> Level IV SW846/CLP				
							<input type="checkbox"/> Other / EDD				

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Page 3 of 3

1305450

ALS Project Manager: _____ ALS Work Order #: _____

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	PCB 8082										
Work Order		Project Number	60299534	B	Metals 6810										
Company Name	AECOM	Bill To Company	AECOM	C	Herbicides 8151										
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D	Pesticides 8081										
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E	VOC 5035										
				F	SVOC 8270										
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G	VOC 8260B										
Phone	(513) 878-6853	Phone	(513) 878-6844	H											
Fax	(513) 878-6848	Fax	(513) 878-6848	I											
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	IA #1 S10-0005	5/21/13	0909	soil	none	1	X										-21		
2	IA #1 S10-0506	↓	0932	↓	↓	7	X	X	X	X	X	X					-22		
3	IA #1 S10-0608		0934			1	X												-23
4	IA #1 S10-0810		0945			1	X												-24
5	TB-052113						water	HCL	2							X			
6																			
7																			
8																			
9																			
10																			

Sampler(s) Please Print & Sign <i>Michael Vapp / Mary Ann</i>		Shipment Method <i>FedEx</i>		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:	
Relinquished by: <i>Mary Ann</i>	Date: 5/21/13	Time: 13:15	Received by:		Notes:				
Relinquished by:	Date: 5/21/13	Time: 9:00	Received by (Laboratory): <i>Steen Miller</i>		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)		
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):		<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP Check List			
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035					<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV			
					<input type="checkbox"/> Level IV SW846/CLP				
					<input type="checkbox"/> Other / EDD				

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
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26-Jun-2013

Elaine Nomina
AECOM
4219 Malsbury Road
Cincinnati, OH 45242

Tel: (513) 878-6853
Fax: (513) 878-6848

Re: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: **1305495**

Dear Elaine,

ALS Environmental received 63 samples on 22-May-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 149.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

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RIGHT SOLUTIONS RIGHT PARTNER

Client: AECOM
 Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
 Work Order: 1305495

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1305495-01	IA#1S17-0002	Soil		5/21/2013 14:25	5/22/2013	<input type="checkbox"/>
1305495-02	IA#1S17-0204	Soil		5/21/2013 14:27	5/22/2013	<input type="checkbox"/>
1305495-03	IA#1S17-0406	Soil		5/21/2013 14:29	5/22/2013	<input type="checkbox"/>
1305495-04	IA#1S17-0608	Soil		5/21/2013 14:40	5/22/2013	<input type="checkbox"/>
1305495-05	IA#1S17-0810	Soil		5/21/2013 14:42	5/22/2013	<input type="checkbox"/>
1305495-05	IA#1S17-0810	Soil		5/21/2013 14:42	5/22/2013	<input type="checkbox"/>
1305495-06	IA#1S20-0002	Soil		5/21/2013 14:56	5/22/2013	<input type="checkbox"/>
1305495-07	IA#1S20-0204	Soil		5/21/2013 14:57	5/22/2013	<input type="checkbox"/>
1305495-08	IA#1S20-0406	Soil		5/21/2013 14:58	5/22/2013	<input type="checkbox"/>
1305495-09	IA#1S20-0608	Soil		5/21/2013 15:08	5/22/2013	<input type="checkbox"/>
1305495-10	IA#1S20-0810	Soil		5/21/2013 15:17	5/22/2013	<input type="checkbox"/>
1305495-11	IA#1S23-0005	Soil		5/21/2013 15:39	5/22/2013	<input type="checkbox"/>
1305495-12	IA#1S23-0506	Soil		5/21/2013 15:47	5/22/2013	<input type="checkbox"/>
1305495-13	IA#1S23-0608	Soil		5/21/2013 15:49	5/22/2013	<input type="checkbox"/>
1305495-14	IA#1S23-0810	Soil		5/21/2013 16:01	5/22/2013	<input type="checkbox"/>
1305495-14	IA#1S23-0810	Soil		5/21/2013 16:01	5/22/2013	<input type="checkbox"/>
1305495-15	IA#1S32-0002	Soil		5/21/2013 16:28	5/22/2013	<input type="checkbox"/>
1305495-16	IA#1S32-0204	Soil		5/21/2013 16:30	5/22/2013	<input type="checkbox"/>
1305495-17	IA#1S32-0406	Soil		5/21/2013 16:33	5/22/2013	<input type="checkbox"/>
1305495-18	IA#1S32-0406-B	Soil		5/21/2013 16:33	5/22/2013	<input type="checkbox"/>
1305495-19	IA#1S32-0608	Soil		5/21/2013 16:40	5/22/2013	<input type="checkbox"/>
1305495-20	IA#1S32-0810	Soil		5/21/2013 16:45	5/22/2013	<input type="checkbox"/>
1305495-21	IA#1S36-0002	Soil		5/21/2013 17:06	5/22/2013	<input type="checkbox"/>
1305495-22	IA#1S36-0204	Soil		5/21/2013 17:08	5/22/2013	<input type="checkbox"/>
1305495-23	IA#1S36-0406	Soil		5/21/2013 17:11	5/22/2013	<input type="checkbox"/>
1305495-24	IA#1S36-0608	Soil		5/21/2013 17:28	5/22/2013	<input type="checkbox"/>
1305495-25	IA#1S36-0810	Soil		5/21/2013 17:31	5/22/2013	<input type="checkbox"/>
1305495-25	IA#1S36-0810	Soil		5/21/2013 17:31	5/22/2013	<input type="checkbox"/>
1305495-26	TB-052113	Water		5/21/2013	5/22/2013	<input type="checkbox"/>
1305495-27	IA#1S21-0002	Soil		5/22/2013 10:30	5/22/2013	<input type="checkbox"/>
1305495-28	IA#1S21-0204	Soil		5/22/2013 10:32	5/22/2013	<input type="checkbox"/>
1305495-29	IA#1S21-0406	Soil		5/22/2013 10:36	5/22/2013	<input type="checkbox"/>
1305495-30	IA#1S21-0608	Soil		5/22/2013 10:50	5/22/2013	<input type="checkbox"/>
1305495-31	IA#1S21-0810	Soil		5/22/2013 10:56	5/22/2013	<input type="checkbox"/>
1305495-31	IA#1S21-0810	Soil		5/22/2013 10:56	5/22/2013	<input type="checkbox"/>
1305495-32	IA#1S22-0002	Soil		5/22/2013 09:43	5/22/2013	<input type="checkbox"/>
1305495-33	IA#1S22-0204	Soil		5/22/2013 09:48	5/22/2013	<input type="checkbox"/>
1305495-34	IA#1S22-0406	Soil		5/22/2013 09:51	5/22/2013	<input type="checkbox"/>
1305495-35	IA#1S22-0608	Soil		5/22/2013 09:58	5/22/2013	<input type="checkbox"/>

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305495

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1305495-36	IA#1S22-0810	Soil		5/22/2013 10:06	5/22/2013	<input type="checkbox"/>
1305495-37	IA#1S24-0002	Soil		5/22/2013 11:18	5/22/2013	<input type="checkbox"/>
1305495-38	IA#1S24-0204	Soil		5/22/2013 11:21	5/22/2013	<input type="checkbox"/>
1305495-39	IA#1S24-0406	Soil		5/22/2013 11:22	5/22/2013	<input type="checkbox"/>
1305495-40	IA#1S24-0608	Soil		5/22/2013 11:28	5/22/2013	<input type="checkbox"/>
1305495-41	IA#1S24-0810	Soil		5/22/2013 11:36	5/22/2013	<input type="checkbox"/>
1305495-42	IA#1S25-0002	Soil		5/22/2013 13:28	5/22/2013	<input type="checkbox"/>
1305495-43	IA#1S25-0002-B	Soil		5/22/2013 13:28	5/22/2013	<input type="checkbox"/>
1305495-44	IA#1S25-0204	Soil		5/22/2013 13:30	5/22/2013	<input type="checkbox"/>
1305495-45	IA#1S25-0406	Soil		5/22/2013 13:35	5/22/2013	<input type="checkbox"/>
1305495-46	IA#1S25-0608	Soil		5/22/2013 13:41	5/22/2013	<input type="checkbox"/>
1305495-47	IA#1S25-0810	Soil		5/22/2013 13:45	5/22/2013	<input type="checkbox"/>
1305495-48	IA#1S26-0002	Soil		5/22/2013 08:42	5/22/2013	<input type="checkbox"/>
1305495-49	IA#1S26-0204	Soil		5/22/2013 08:45	5/22/2013	<input type="checkbox"/>
1305495-50	IA#1S26-0406	Soil		5/22/2013 08:47	5/22/2013	<input type="checkbox"/>
1305495-50	IA#1S26-0406	Soil		5/22/2013 08:47	5/22/2013	<input type="checkbox"/>
1305495-51	IA#1S26-0608	Soil		5/22/2013 08:56	5/22/2013	<input type="checkbox"/>
1305495-52	IA#1S26-0811	Soil		5/22/2013 08:59	5/22/2013	<input type="checkbox"/>
1305495-53	IA#1S28-0002	Soil		5/22/2013 08:05	5/22/2013	<input type="checkbox"/>
1305495-54	IA#1S28-0204	Soil		5/22/2013 08:06	5/22/2013	<input type="checkbox"/>
1305495-55	IA#1S28-0406	Soil		5/22/2013 08:07	5/22/2013	<input type="checkbox"/>
1305495-56	IA#1S28-0608	Soil		5/22/2013 08:16	5/22/2013	<input type="checkbox"/>
1305495-57	IA#1S28-0810	Soil		5/22/2013 08:22	5/22/2013	<input type="checkbox"/>
1305495-58	IA#1S29-0002	Soil		5/22/2013 11:55	5/22/2013	<input type="checkbox"/>
1305495-58	IA#1S29-0002	Soil		5/22/2013 11:55	5/22/2013	<input type="checkbox"/>
1305495-59	IA#1S29-0204	Soil		5/22/2013 11:59	5/22/2013	<input type="checkbox"/>
1305495-60	IA#1S29-0405	Soil		5/22/2013 12:11	5/22/2013	<input type="checkbox"/>
1305495-61	IA#1S29-0507	Soil		5/22/2013 12:15	5/22/2013	<input type="checkbox"/>
1305495-62	IA#1S29-0709	Soil		5/22/2013 12:18	5/22/2013	<input type="checkbox"/>
1305495-63	IA#1S29-0910	Soil		5/22/2013 12:23	5/22/2013	<input type="checkbox"/>

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305495

Case Narrative

The analyses requested were analyzed according to Ohio Voluntary Action Program requirements.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The pesticides and herbicides analysis was performed by Microbac Laboratories, Marietta, OH.

All soils are reported as dry weight corrected.

Sample IA#1S21-0810 (1305495-31C) has elevated reporting limits for pesticides analysis. The original shipment to Microbac Laboratories was delayed for three days during transit by Fedex resulting in out of control temperatures. Replacement sample was available and shipped but was of insufficient mass for the preparation and analysis to achieve the target limits.

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S17-0002

Lab ID: 1305495-01

Collection Date: 5/21/2013 02:25 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/29/2013 05:39 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/29/2013 05:39 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/29/2013 05:39 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/29/2013 05:39 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/29/2013 05:39 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/29/2013 05:39 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/29/2013 05:39 PM
Surr: Decachlorobiphenyl	91.6		22-156	%REC	1	5/29/2013 05:39 PM
Surr: Tetrachloro-m-xylene	95.0		34-145	%REC	1	5/29/2013 05:39 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S17-0204

Lab ID: 1305495-02

Collection Date: 5/21/2013 02:27 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/29/2013 05:53 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/29/2013 05:53 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/29/2013 05:53 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/29/2013 05:53 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/29/2013 05:53 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/29/2013 05:53 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/29/2013 05:53 PM
Surr: Decachlorobiphenyl	93.4		22-156	%REC	1	5/29/2013 05:53 PM
Surr: Tetrachloro-m-xylene	114		34-145	%REC	1	5/29/2013 05:53 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	16		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S17-0406

Lab ID: 1305495-03

Collection Date: 5/21/2013 02:29 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/29/2013 06:08 PM
Aroclor 1221	ND		0.22	mg/Kg-dry	1	5/29/2013 06:08 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/29/2013 06:08 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/29/2013 06:08 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/29/2013 06:08 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/29/2013 06:08 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/29/2013 06:08 PM
Surr: Decachlorobiphenyl	95.0		22-156	%REC	1	5/29/2013 06:08 PM
Surr: Tetrachloro-m-xylene	111		34-145	%REC	1	5/29/2013 06:08 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	8.2		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S17-0608

Lab ID: 1305495-04

Collection Date: 5/21/2013 02:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/29/2013 06:22 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/29/2013 06:22 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/29/2013 06:22 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/29/2013 06:22 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/29/2013 06:22 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/29/2013 06:22 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/29/2013 06:22 PM
Surr: Decachlorobiphenyl	82.2		22-156	%REC	1	5/29/2013 06:22 PM
Surr: Tetrachloro-m-xylene	80.0		34-145	%REC	1	5/29/2013 06:22 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	12		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S17-0810

Lab ID: 1305495-05

Collection Date: 5/21/2013 02:42 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/29/2013 06:36 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/29/2013 06:36 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/29/2013 06:36 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/29/2013 06:36 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/29/2013 06:36 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/29/2013 06:36 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/29/2013 06:36 PM
Surr: Decachlorobiphenyl	93.6		22-156	%REC	1	5/29/2013 06:36 PM
Surr: Tetrachloro-m-xylene	90.2		34-145	%REC	1	5/29/2013 06:36 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	12		0.010	% of sample	1	5/28/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.32	mg/Kg-dry	1	5/29/2013 04:14 PM
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Aluminum	9,600		560	mg/Kg-dry	1	5/25/2013 02:54 PM
Antimony	ND		3.4	mg/Kg-dry	1	5/25/2013 02:54 PM
Arsenic	11		5.6	mg/Kg-dry	1	5/25/2013 02:54 PM
Barium	47		11	mg/Kg-dry	1	5/25/2013 02:54 PM
Beryllium	0.48		0.022	mg/Kg-dry	1	5/25/2013 02:54 PM
Cadmium	ND		1.1	mg/Kg-dry	1	5/25/2013 02:54 PM
Calcium	54,000		560	mg/Kg-dry	1	5/25/2013 02:54 PM
Chromium	16		2.2	mg/Kg-dry	1	5/25/2013 02:54 PM
Cobalt	11		5.6	mg/Kg-dry	1	5/25/2013 02:54 PM
Copper	21		5.6	mg/Kg-dry	1	5/25/2013 02:54 PM
Iron	26,000		110	mg/Kg-dry	1	5/25/2013 02:54 PM
Lead	11		5.6	mg/Kg-dry	1	5/25/2013 02:54 PM
Magnesium	11,000		110	mg/Kg-dry	1	5/25/2013 02:54 PM
Manganese	450		5.6	mg/Kg-dry	1	5/25/2013 02:54 PM
Nickel	30		5.6	mg/Kg-dry	1	5/25/2013 02:54 PM
Potassium	1,600		560	mg/Kg-dry	1	5/25/2013 02:54 PM
Selenium	ND		3.4	mg/Kg-dry	1	5/25/2013 02:54 PM
Silver	ND		1.1	mg/Kg-dry	1	5/25/2013 02:54 PM
Sodium	ND		560	mg/Kg-dry	1	5/25/2013 02:54 PM
Thallium	ND		3.4	mg/Kg-dry	1	5/25/2013 02:54 PM
Vanadium	16		5.6	mg/Kg-dry	1	5/25/2013 02:54 PM
Zinc	62		5.6	mg/Kg-dry	1	5/25/2013 02:54 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/4/2013	Analyst: Microb

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S17-0810

Lab ID: 1305495-05

Collection Date: 5/21/2013 02:42 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		3.7	µg/Kg	1	6/7/2013 06:58 AM
4,4'-DDE	ND		3.7	µg/Kg	1	6/7/2013 06:58 AM
4,4'-DDT	ND		3.7	µg/Kg	1	6/7/2013 06:58 AM
Aldrin	ND		3.7	µg/Kg	1	6/7/2013 06:58 AM
alpha-BHC	ND		3.7	µg/Kg	1	6/7/2013 06:58 AM
alpha-Chlordane	ND		3.7	µg/Kg	1	6/7/2013 06:58 AM
beta-BHC	ND		3.7	µg/Kg	1	6/7/2013 06:58 AM
delta-BHC	ND		3.7	µg/Kg	1	6/7/2013 06:58 AM
Dieldrin	ND		3.7	µg/Kg	1	6/7/2013 06:58 AM
Endosulfan I	ND		3.7	µg/Kg	1	6/7/2013 06:58 AM
Endosulfan II	ND		3.7	µg/Kg	1	6/7/2013 06:58 AM
Endosulfan sulfate	ND		3.7	µg/Kg	1	6/7/2013 06:58 AM
Endrin	ND		3.7	µg/Kg	1	6/7/2013 06:58 AM
Endrin aldehyde	ND		3.7	µg/Kg	1	6/7/2013 06:58 AM
Endrin ketone	ND		3.7	µg/Kg	1	6/7/2013 06:58 AM
gamma-BHC (Lindane)	ND		3.7	µg/Kg	1	6/7/2013 06:58 AM
gamma-Chlordane	ND		3.7	µg/Kg	1	6/7/2013 06:58 AM
Heptachlor	ND		3.7	µg/Kg	1	6/7/2013 06:58 AM
Heptachlor epoxide	ND		3.7	µg/Kg	1	6/7/2013 06:58 AM
Methoxychlor	ND		3.7	µg/Kg	1	6/7/2013 06:58 AM
Toxaphene	ND		74	µg/Kg	1	6/7/2013 06:58 AM
<i>Surr: Decachlorobiphenyl</i>	66.3		33-143	%REC	1	6/7/2013 06:58 AM
<i>Surr: Tetrachloro-m-xylene</i>	53.4		39-130	%REC	1	6/7/2013 06:58 AM

HERBICIDES

SW8151

Prep Date: 6/4/2013

Analyst: Microb

2,4,5-T	ND		0.0053	mg/Kg	1	6/7/2013 12:09 PM
2,4,5-TP (Silvex)	ND		0.0040	mg/Kg	1	6/7/2013 12:09 PM
2,4-D	ND		0.053	mg/Kg	1	6/7/2013 12:09 PM
2,4-DB	ND		0.053	mg/Kg	1	6/7/2013 12:09 PM
Dalapon	ND		0.13	mg/Kg	1	6/7/2013 12:09 PM
Dicamba	ND		0.0053	mg/Kg	1	6/7/2013 12:09 PM
Dichlorprop	ND		0.053	mg/Kg	1	6/7/2013 12:09 PM
Dinoseb	ND		0.026	mg/Kg	1	6/7/2013 12:09 PM
MCPA	ND		5.3	mg/Kg	1	6/7/2013 12:09 PM
MCPP	ND		5.3	mg/Kg	1	6/7/2013 12:09 PM
Pentachlorophenol	ND		0.0053	mg/Kg	1	6/7/2013 12:09 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	102		25-110	%REC	1	6/7/2013 12:09 PM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 5/24/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
1,2,4-Trichlorobenzene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S17-0810

Lab ID: 1305495-05

Collection Date: 5/21/2013 02:42 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
1,3-Dichlorobenzene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
1,3-Dinitrobenzene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
1,4-Dichlorobenzene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
1-Methylnaphthalene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
1-Naphthylamine	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
2,3,4,6-Tetrachlorophenol	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
2,4,5-Trichlorophenol	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
2,4,6-Trichlorophenol	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
2,4-Dichlorophenol	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
2,4-Dimethylphenol	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	5/30/2013 06:36 PM
2,4-Dinitrotoluene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
2,6-Dichlorophenol	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
2,6-Dinitrotoluene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
2-Acetylaminofluorene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
2-Chloronaphthalene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
2-Chlorophenol	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
2-Methylnaphthalene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
2-Methylphenol	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
2-Naphthylamine	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/30/2013 06:36 PM
2-Nitrophenol	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
2-Picoline	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
3&4-Methylphenol	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
3,3'-Dichlorobenzidine	ND		750	µg/Kg-dry	1	5/30/2013 06:36 PM
3-Methylcholanthrene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/30/2013 06:36 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	5/30/2013 06:36 PM
4-Aminobiphenyl	ND		750	µg/Kg-dry	1	5/30/2013 06:36 PM
4-Bromophenyl phenyl ether	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
4-Chloro-3-methylphenol	ND		750	µg/Kg-dry	1	5/30/2013 06:36 PM
4-Chloroaniline	ND		750	µg/Kg-dry	1	5/30/2013 06:36 PM
4-Chlorophenyl phenyl ether	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
4-Nitroaniline	ND		750	µg/Kg-dry	1	5/30/2013 06:36 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	5/30/2013 06:36 PM
4-Nitroquinoline 1-oxide	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
5-Nitro-o-toluidine	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
7,12-Dimethylbenz(a)anthracene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Acenaphthene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S17-0810

Lab ID: 1305495-05

Collection Date: 5/21/2013 02:42 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Acetophenone	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Aniline	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Anthracene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Azobenzene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Benzidine	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Benzo(a)anthracene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Benzo(a)pyrene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Benzo(b)fluoranthene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Benzo(g,h,i)perylene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Benzo(k)fluoranthene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Benzyl alcohol	ND		750	µg/Kg-dry	1	5/30/2013 06:36 PM
Bis(2-chloroethoxy)methane	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Bis(2-chloroethyl)ether	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Bis(2-chloroisopropyl)ether	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Bis(2-ethylhexyl)phthalate	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Butyl benzyl phthalate	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Carbazole	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Chrysene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Dibenzo(a,h)anthracene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Dibenzofuran	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Diethyl phthalate	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Dimethyl phthalate	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Di-n-butyl phthalate	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Di-n-octyl phthalate	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Dinoseb	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Diphenylamine	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Ethyl methanesulfonate	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Fluoranthene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Fluorene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Hexachlorobenzene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Hexachlorobutadiene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Hexachlorocyclopentadiene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Hexachloroethane	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Indeno(1,2,3-cd)pyrene	ND		170	µg/Kg-dry	1	5/30/2013 06:36 PM
Isophorone	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Isosafrole	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Methapyrilene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Methyl methanesulfonate	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Naphthalene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S17-0810

Lab ID: 1305495-05

Collection Date: 5/21/2013 02:42 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
N-Nitrosodiethylamine	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
N-Nitrosodimethylamine	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
N-Nitroso-di-n-butylamine	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
N-Nitrosodi-n-propylamine	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
N-Nitrosomethylethylamine	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
N-Nitrosomorpholine	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
N-Nitrosopiperidine	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
N-Nitrosopyrrolidine	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
o-Toluidine	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
p-Dimethylaminoazobenzene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Pentachlorobenzene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Pentachloroethane	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Pentachloronitrobenzene	ND		750	µg/Kg-dry	1	5/30/2013 06:36 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	5/30/2013 06:36 PM
Phenacetin	ND		750	µg/Kg-dry	1	5/30/2013 06:36 PM
Phenanthrene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Phenol	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Pyrene	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Pyridine	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Safrole	ND		370	µg/Kg-dry	1	5/30/2013 06:36 PM
Surr: 2,4,6-Tribromophenol	67.4		18-115	%REC	1	5/30/2013 06:36 PM
Surr: 2-Fluorobiphenyl	70.7		30-116	%REC	1	5/30/2013 06:36 PM
Surr: 2-Fluorophenol	67.0		24-105	%REC	1	5/30/2013 06:36 PM
Surr: 4-Terphenyl-d14	61.8		40-127	%REC	1	5/30/2013 06:36 PM
Surr: Nitrobenzene-d5	82.5		32-106	%REC	1	5/30/2013 06:36 PM
Surr: Phenol-d5	68.5		39-123	%REC	1	5/30/2013 06:36 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/29/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
1,1,1-Trichloroethane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
1,1,2,2-Tetrachloroethane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
1,1,2-Trichloroethane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
1,1-Dichloroethane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
1,1-Dichloroethene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
1,1-Dichloropropene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
1,2,3-Trichlorobenzene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
1,2,3-Trichloropropane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
1,2,4-Trichlorobenzene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
1,2,4-Trimethylbenzene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
1,2-Dibromo-3-chloropropane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S17-0810

Lab ID: 1305495-05

Collection Date: 5/21/2013 02:42 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
1,2-Dichlorobenzene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
1,2-Dichloroethane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
1,2-Dichloropropane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
1,3,5-Trimethylbenzene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
1,3-Dichlorobenzene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
1,3-Dichloropropane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
1,4-Dichlorobenzene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
2,2-Dichloropropane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
2-Butanone	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
2-Chlorotoluene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
2-Hexanone	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
4-Chlorotoluene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
4-Methyl-2-pentanone	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Acetone	9.1		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Benzene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Bromobenzene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Bromochloromethane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Bromodichloromethane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Bromoform	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Bromomethane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Carbon disulfide	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Carbon tetrachloride	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Chlorobenzene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Chloroethane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Chloroform	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Chloromethane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
cis-1,2-Dichloroethene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
cis-1,3-Dichloropropene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Dibromochloromethane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Dibromomethane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Dichlorodifluoromethane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Ethylbenzene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Hexachlorobutadiene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Isopropylbenzene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
m,p-Xylene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Methyl tert-butyl ether	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Methylene chloride	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Naphthalene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
n-Butylbenzene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S17-0810

Lab ID: 1305495-05

Collection Date: 5/21/2013 02:42 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
o-Xylene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
p-Isopropyltoluene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
sec-Butylbenzene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Styrene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
tert-Butylbenzene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Tetrachloroethene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Toluene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
trans-1,2-Dichloroethene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
trans-1,3-Dichloropropene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Trichloroethene	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Trichlorofluoromethane	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Vinyl chloride	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
Xylenes, Total	ND		4.7	µg/Kg-dry	1	5/29/2013 05:31 PM
<i>Surr: 4-Bromofluorobenzene</i>	107		62.7-159	%REC	1	5/29/2013 05:31 PM
<i>Surr: Dibromofluoromethane</i>	101		88.2-133	%REC	1	5/29/2013 05:31 PM
<i>Surr: Toluene-d8</i>	94.7		81.5-110	%REC	1	5/29/2013 05:31 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S20-0002

Lab ID: 1305495-06

Collection Date: 5/21/2013 02:56 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/29/2013 06:51 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/29/2013 06:51 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/29/2013 06:51 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/29/2013 06:51 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/29/2013 06:51 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/29/2013 06:51 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/29/2013 06:51 PM
Surr: Decachlorobiphenyl	92.0		22-156	%REC	1	5/29/2013 06:51 PM
Surr: Tetrachloro-m-xylene	95.6		34-145	%REC	1	5/29/2013 06:51 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S20-0204

Lab ID: 1305495-07

Collection Date: 5/21/2013 02:57 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/29/2013 07:06 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/29/2013 07:06 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/29/2013 07:06 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/29/2013 07:06 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/29/2013 07:06 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/29/2013 07:06 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/29/2013 07:06 PM
Surr: Decachlorobiphenyl	93.4		22-156	%REC	1	5/29/2013 07:06 PM
Surr: Tetrachloro-m-xylene	94.0		34-145	%REC	1	5/29/2013 07:06 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S20-0406

Lab ID: 1305495-08

Collection Date: 5/21/2013 02:58 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/29/2013 07:20 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/29/2013 07:20 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/29/2013 07:20 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/29/2013 07:20 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/29/2013 07:20 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/29/2013 07:20 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/29/2013 07:20 PM
Surr: Decachlorobiphenyl	92.8		22-156	%REC	1	5/29/2013 07:20 PM
Surr: Tetrachloro-m-xylene	96.4		34-145	%REC	1	5/29/2013 07:20 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S20-0608

Lab ID: 1305495-09

Collection Date: 5/21/2013 03:08 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/29/2013 07:34 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/29/2013 07:34 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/29/2013 07:34 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/29/2013 07:34 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/29/2013 07:34 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/29/2013 07:34 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/29/2013 07:34 PM
Surr: Decachlorobiphenyl	92.2		22-156	%REC	1	5/29/2013 07:34 PM
Surr: Tetrachloro-m-xylene	93.2		34-145	%REC	1	5/29/2013 07:34 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S20-0810

Lab ID: 1305495-10

Collection Date: 5/21/2013 03:17 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/29/2013 07:48 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/29/2013 07:48 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/29/2013 07:48 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/29/2013 07:48 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/29/2013 07:48 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/29/2013 07:48 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/29/2013 07:48 PM
Surr: Decachlorobiphenyl	89.0		22-156	%REC	1	5/29/2013 07:48 PM
Surr: Tetrachloro-m-xylene	86.4		34-145	%REC	1	5/29/2013 07:48 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	12		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S23-0005

Lab ID: 1305495-11

Collection Date: 5/21/2013 03:39 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/29/2013 08:03 PM
Aroclor 1221	ND		0.25	mg/Kg-dry	1	5/29/2013 08:03 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/29/2013 08:03 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/29/2013 08:03 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/29/2013 08:03 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/29/2013 08:03 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/29/2013 08:03 PM
Surr: Decachlorobiphenyl	93.2		22-156	%REC	1	5/29/2013 08:03 PM
Surr: Tetrachloro-m-xylene	95.6		34-145	%REC	1	5/29/2013 08:03 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	18		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S23-0506

Lab ID: 1305495-12

Collection Date: 5/21/2013 03:47 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/29/2013 08:17 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/29/2013 08:17 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/29/2013 08:17 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/29/2013 08:17 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/29/2013 08:17 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/29/2013 08:17 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/29/2013 08:17 PM
Surr: Decachlorobiphenyl	92.0		22-156	%REC	1	5/29/2013 08:17 PM
Surr: Tetrachloro-m-xylene	92.6		34-145	%REC	1	5/29/2013 08:17 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	18		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S23-0608

Lab ID: 1305495-13

Collection Date: 5/21/2013 03:49 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/29/2013 08:32 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/29/2013 08:32 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/29/2013 08:32 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/29/2013 08:32 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/29/2013 08:32 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/29/2013 08:32 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/29/2013 08:32 PM
Surr: Decachlorobiphenyl	91.2		22-156	%REC	1	5/29/2013 08:32 PM
Surr: Tetrachloro-m-xylene	91.4		34-145	%REC	1	5/29/2013 08:32 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S23-0810

Lab ID: 1305495-14

Collection Date: 5/21/2013 04:01 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/29/2013 08:46 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/29/2013 08:46 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/29/2013 08:46 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/29/2013 08:46 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/29/2013 08:46 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/29/2013 08:46 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/29/2013 08:46 PM
Surr: Decachlorobiphenyl	93.8		22-156	%REC	1	5/29/2013 08:46 PM
Surr: Tetrachloro-m-xylene	93.2		34-145	%REC	1	5/29/2013 08:46 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	12		0.010	% of sample	1	5/28/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.34	mg/Kg-dry	1	5/29/2013 04:16 PM
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Aluminum	8,600		560	mg/Kg-dry	1	5/25/2013 03:01 PM
Antimony	ND		3.4	mg/Kg-dry	1	5/25/2013 03:01 PM
Arsenic	7.5		5.6	mg/Kg-dry	1	5/25/2013 03:01 PM
Barium	94		11	mg/Kg-dry	1	5/25/2013 03:01 PM
Beryllium	0.48		0.023	mg/Kg-dry	1	5/25/2013 03:01 PM
Cadmium	ND		1.1	mg/Kg-dry	1	5/25/2013 03:01 PM
Calcium	61,000		560	mg/Kg-dry	1	5/25/2013 03:01 PM
Chromium	14		2.3	mg/Kg-dry	1	5/25/2013 03:01 PM
Cobalt	11		5.6	mg/Kg-dry	1	5/25/2013 03:01 PM
Copper	18		5.6	mg/Kg-dry	1	5/25/2013 03:01 PM
Iron	23,000		110	mg/Kg-dry	1	5/25/2013 03:01 PM
Lead	9.7		5.6	mg/Kg-dry	1	5/25/2013 03:01 PM
Magnesium	14,000		110	mg/Kg-dry	1	5/25/2013 03:01 PM
Manganese	430		5.6	mg/Kg-dry	1	5/25/2013 03:01 PM
Nickel	24		5.6	mg/Kg-dry	1	5/25/2013 03:01 PM
Potassium	1,400		560	mg/Kg-dry	1	5/25/2013 03:01 PM
Selenium	ND		3.4	mg/Kg-dry	1	5/25/2013 03:01 PM
Silver	ND		1.1	mg/Kg-dry	1	5/25/2013 03:01 PM
Sodium	ND		560	mg/Kg-dry	1	5/25/2013 03:01 PM
Thallium	ND		3.4	mg/Kg-dry	1	5/25/2013 03:01 PM
Vanadium	17		5.6	mg/Kg-dry	1	5/25/2013 03:01 PM
Zinc	46		5.6	mg/Kg-dry	1	5/25/2013 03:01 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/4/2013	Analyst: Microb

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S23-0810

Lab ID: 1305495-14

Collection Date: 5/21/2013 04:01 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		4.7	µg/Kg	1	6/7/2013 07:26 AM
4,4'-DDE	ND		4.7	µg/Kg	1	6/7/2013 07:26 AM
4,4'-DDT	ND		4.7	µg/Kg	1	6/7/2013 07:26 AM
Aldrin	ND		4.7	µg/Kg	1	6/7/2013 07:26 AM
alpha-BHC	ND		4.7	µg/Kg	1	6/7/2013 07:26 AM
alpha-Chlordane	ND		4.7	µg/Kg	1	6/7/2013 07:26 AM
beta-BHC	ND		4.7	µg/Kg	1	6/7/2013 07:26 AM
delta-BHC	ND		4.7	µg/Kg	1	6/7/2013 07:26 AM
Dieldrin	ND		4.7	µg/Kg	1	6/7/2013 07:26 AM
Endosulfan I	ND		4.7	µg/Kg	1	6/7/2013 07:26 AM
Endosulfan II	ND		4.7	µg/Kg	1	6/7/2013 07:26 AM
Endosulfan sulfate	ND		4.7	µg/Kg	1	6/7/2013 07:26 AM
Endrin	ND		4.7	µg/Kg	1	6/7/2013 07:26 AM
Endrin aldehyde	ND		4.7	µg/Kg	1	6/7/2013 07:26 AM
Endrin ketone	ND		4.7	µg/Kg	1	6/7/2013 07:26 AM
gamma-BHC (Lindane)	ND		4.7	µg/Kg	1	6/7/2013 07:26 AM
gamma-Chlordane	ND		4.7	µg/Kg	1	6/7/2013 07:26 AM
Heptachlor	ND		4.7	µg/Kg	1	6/7/2013 07:26 AM
Heptachlor epoxide	ND		4.7	µg/Kg	1	6/7/2013 07:26 AM
Methoxychlor	ND		4.7	µg/Kg	1	6/7/2013 07:26 AM
Toxaphene	ND		94	µg/Kg	1	6/7/2013 07:26 AM
<i>Surr: Decachlorobiphenyl</i>	77.8		33-143	%REC	1	6/7/2013 07:26 AM
<i>Surr: Tetrachloro-m-xylene</i>	58.1		39-130	%REC	1	6/7/2013 07:26 AM
HERBICIDES			SW8151		Prep Date: 6/4/2013	Analyst: Microb
2,4,5-T	ND		0.0053	mg/Kg	1	6/7/2013 12:35 PM
2,4,5-TP (Silvex)	ND		0.0040	mg/Kg	1	6/7/2013 12:35 PM
2,4-D	ND		0.053	mg/Kg	1	6/7/2013 12:35 PM
2,4-DB	ND		0.053	mg/Kg	1	6/7/2013 12:35 PM
Dalapon	ND		0.13	mg/Kg	1	6/7/2013 12:35 PM
Dicamba	ND		0.0053	mg/Kg	1	6/7/2013 12:35 PM
Dichlorprop	ND		0.053	mg/Kg	1	6/7/2013 12:35 PM
Dinoseb	ND		0.026	mg/Kg	1	6/7/2013 12:35 PM
MCPA	ND		5.3	mg/Kg	1	6/7/2013 12:35 PM
MCPP	ND		5.3	mg/Kg	1	6/7/2013 12:35 PM
Pentachlorophenol	ND		0.0053	mg/Kg	1	6/7/2013 12:35 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	106		25-110	%REC	1	6/7/2013 12:35 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 5/24/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
1,2,4-Trichlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S23-0810

Lab ID: 1305495-14

Collection Date: 5/21/2013 04:01 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
1,3-Dichlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
1,3-Dinitrobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
1,4-Dichlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
1-Methylnaphthalene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
1-Naphthylamine	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
2,3,4,6-Tetrachlorophenol	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
2,4,5-Trichlorophenol	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
2,4,6-Trichlorophenol	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
2,4-Dichlorophenol	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
2,4-Dimethylphenol	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	5/30/2013 07:12 PM
2,4-Dinitrotoluene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
2,6-Dichlorophenol	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
2,6-Dinitrotoluene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
2-Acetylaminofluorene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
2-Chloronaphthalene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
2-Chlorophenol	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
2-Methylnaphthalene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
2-Methylphenol	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
2-Naphthylamine	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/30/2013 07:12 PM
2-Nitrophenol	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
2-Picoline	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
3&4-Methylphenol	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
3,3'-Dichlorobenzidine	ND		750	µg/Kg-dry	1	5/30/2013 07:12 PM
3-Methylcholanthrene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/30/2013 07:12 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	5/30/2013 07:12 PM
4-Aminobiphenyl	ND		750	µg/Kg-dry	1	5/30/2013 07:12 PM
4-Bromophenyl phenyl ether	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
4-Chloro-3-methylphenol	ND		750	µg/Kg-dry	1	5/30/2013 07:12 PM
4-Chloroaniline	ND		750	µg/Kg-dry	1	5/30/2013 07:12 PM
4-Chlorophenyl phenyl ether	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
4-Nitroaniline	ND		750	µg/Kg-dry	1	5/30/2013 07:12 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	5/30/2013 07:12 PM
4-Nitroquinoline 1-oxide	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
5-Nitro-o-toluidine	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
7,12-Dimethylbenz(a)anthracene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Acenaphthene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S23-0810

Lab ID: 1305495-14

Collection Date: 5/21/2013 04:01 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Acetophenone	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Aniline	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Anthracene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Azobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Benzidine	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Benzo(a)anthracene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Benzo(a)pyrene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Benzo(b)fluoranthene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Benzo(g,h,i)perylene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Benzo(k)fluoranthene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Benzyl alcohol	ND		750	µg/Kg-dry	1	5/30/2013 07:12 PM
Bis(2-chloroethoxy)methane	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Bis(2-chloroethyl)ether	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Bis(2-chloroisopropyl)ether	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Bis(2-ethylhexyl)phthalate	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Butyl benzyl phthalate	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Carbazole	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Chrysene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Dibenzo(a,h)anthracene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Dibenzofuran	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Diethyl phthalate	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Dimethyl phthalate	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Di-n-butyl phthalate	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Di-n-octyl phthalate	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Dinoseb	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Diphenylamine	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Ethyl methanesulfonate	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Fluoranthene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Fluorene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Hexachlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Hexachlorobutadiene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Hexachlorocyclopentadiene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Hexachloroethane	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Indeno(1,2,3-cd)pyrene	ND		170	µg/Kg-dry	1	5/30/2013 07:12 PM
Isophorone	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Isosafrole	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Methapyrilene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Methyl methanesulfonate	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Naphthalene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S23-0810

Lab ID: 1305495-14

Collection Date: 5/21/2013 04:01 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
N-Nitrosodiethylamine	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
N-Nitrosodimethylamine	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
N-Nitroso-di-n-butylamine	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
N-Nitrosodi-n-propylamine	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
N-Nitrosomethylethylamine	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
N-Nitrosomorpholine	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
N-Nitrosopiperidine	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
N-Nitrosopyrrolidine	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
o-Toluidine	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
p-Dimethylaminoazobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Pentachlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Pentachloroethane	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Pentachloronitrobenzene	ND		750	µg/Kg-dry	1	5/30/2013 07:12 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	5/30/2013 07:12 PM
Phenacetin	ND		750	µg/Kg-dry	1	5/30/2013 07:12 PM
Phenanthrene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Phenol	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Pyrene	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Pyridine	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Safrole	ND		380	µg/Kg-dry	1	5/30/2013 07:12 PM
Surr: 2,4,6-Tribromophenol	72.8		18-115	%REC	1	5/30/2013 07:12 PM
Surr: 2-Fluorobiphenyl	76.2		30-116	%REC	1	5/30/2013 07:12 PM
Surr: 2-Fluorophenol	66.9		24-105	%REC	1	5/30/2013 07:12 PM
Surr: 4-Terphenyl-d14	64.0		40-127	%REC	1	5/30/2013 07:12 PM
Surr: Nitrobenzene-d5	90.8		32-106	%REC	1	5/30/2013 07:12 PM
Surr: Phenol-d5	71.7		39-123	%REC	1	5/30/2013 07:12 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/29/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
1,1,1-Trichloroethane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
1,1,2,2-Tetrachloroethane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
1,1,2-Trichloroethane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
1,1-Dichloroethane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
1,1-Dichloroethene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
1,1-Dichloropropene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
1,2,3-Trichlorobenzene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
1,2,3-Trichloropropane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
1,2,4-Trichlorobenzene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
1,2,4-Trimethylbenzene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
1,2-Dibromo-3-chloropropane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S23-0810

Lab ID: 1305495-14

Collection Date: 5/21/2013 04:01 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
1,2-Dichlorobenzene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
1,2-Dichloroethane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
1,2-Dichloropropane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
1,3,5-Trimethylbenzene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
1,3-Dichlorobenzene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
1,3-Dichloropropane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
1,4-Dichlorobenzene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
2,2-Dichloropropane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
2-Butanone	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
2-Chlorotoluene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
2-Hexanone	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
4-Chlorotoluene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
4-Methyl-2-pentanone	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Acetone	6.9		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Benzene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Bromobenzene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Bromochloromethane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Bromodichloromethane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Bromoform	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Bromomethane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Carbon disulfide	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Carbon tetrachloride	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Chlorobenzene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Chloroethane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Chloroform	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Chloromethane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
cis-1,2-Dichloroethene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
cis-1,3-Dichloropropene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Dibromochloromethane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Dibromomethane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Dichlorodifluoromethane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Ethylbenzene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Hexachlorobutadiene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Isopropylbenzene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
m,p-Xylene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Methyl tert-butyl ether	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Methylene chloride	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Naphthalene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
n-Butylbenzene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S23-0810

Lab ID: 1305495-14

Collection Date: 5/21/2013 04:01 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
o-Xylene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
p-Isopropyltoluene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
sec-Butylbenzene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Styrene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
tert-Butylbenzene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Tetrachloroethene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Toluene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
trans-1,2-Dichloroethene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
trans-1,3-Dichloropropene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Trichloroethene	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Trichlorofluoromethane	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Vinyl chloride	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
Xylenes, Total	ND		4.4	µg/Kg-dry	1	5/29/2013 06:02 PM
<i>Surr: 4-Bromofluorobenzene</i>	104		62.7-159	%REC	1	5/29/2013 06:02 PM
<i>Surr: Dibromofluoromethane</i>	98.3		88.2-133	%REC	1	5/29/2013 06:02 PM
<i>Surr: Toluene-d8</i>	95.4		81.5-110	%REC	1	5/29/2013 06:02 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S32-0002

Lab ID: 1305495-15

Collection Date: 5/21/2013 04:28 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/29/2013 09:00 PM
Aroclor 1221	ND		0.22	mg/Kg-dry	1	5/29/2013 09:00 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/29/2013 09:00 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/29/2013 09:00 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/29/2013 09:00 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/29/2013 09:00 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/29/2013 09:00 PM
Surr: Decachlorobiphenyl	94.2		22-156	%REC	1	5/29/2013 09:00 PM
Surr: Tetrachloro-m-xylene	93.2		34-145	%REC	1	5/29/2013 09:00 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	11		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S32-0204

Lab ID: 1305495-16

Collection Date: 5/21/2013 04:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 03:14 AM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 03:14 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 03:14 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 03:14 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 03:14 AM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 03:14 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 03:14 AM
Surr: Decachlorobiphenyl	92.0		22-156	%REC	1	5/30/2013 03:14 AM
Surr: Tetrachloro-m-xylene	92.0		34-145	%REC	1	5/30/2013 03:14 AM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S32-0406

Lab ID: 1305495-17

Collection Date: 5/21/2013 04:33 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 03:28 AM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 03:28 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 03:28 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 03:28 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 03:28 AM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 03:28 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 03:28 AM
Surr: Decachlorobiphenyl	72.0		22-156	%REC	1	5/30/2013 03:28 AM
Surr: Tetrachloro-m-xylene	70.2		34-145	%REC	1	5/30/2013 03:28 AM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S32-0406-B

Lab ID: 1305495-18

Collection Date: 5/21/2013 04:33 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/29/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/29/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/29/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/29/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/29/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/29/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/29/2013
Surr: Decachlorobiphenyl	83.8		22-156	%REC	1	5/29/2013
Surr: Tetrachloro-m-xylene	82.6		34-145	%REC	1	5/29/2013
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S32-0608

Lab ID: 1305495-19

Collection Date: 5/21/2013 04:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	5/30/2013 02:31 PM
Aroclor 1221	ND		0.26	mg/Kg-dry	1	5/30/2013 02:31 PM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	5/30/2013 02:31 PM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	5/30/2013 02:31 PM
Aroclor 1248	ND		0.13	mg/Kg-dry	1	5/30/2013 02:31 PM
Aroclor 1254	ND		0.13	mg/Kg-dry	1	5/30/2013 02:31 PM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	5/30/2013 02:31 PM
Surr: Decachlorobiphenyl	94.0		22-156	%REC	1	5/30/2013 02:31 PM
Surr: Tetrachloro-m-xylene	87.8		34-145	%REC	1	5/30/2013 02:31 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	24		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S32-0810

Lab ID: 1305495-20

Collection Date: 5/21/2013 04:45 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/30/2013 02:46 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 02:46 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/30/2013 02:46 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/30/2013 02:46 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/30/2013 02:46 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/30/2013 02:46 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/30/2013 02:46 PM
Surr: Decachlorobiphenyl	81.8		22-156	%REC	1	5/30/2013 02:46 PM
Surr: Tetrachloro-m-xylene	76.2		34-145	%REC	1	5/30/2013 02:46 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	12		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S36-0002

Lab ID: 1305495-21

Collection Date: 5/21/2013 05:06 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 03:00 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/30/2013 03:00 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 03:00 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 03:00 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 03:00 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 03:00 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 03:00 PM
Surr: Decachlorobiphenyl	87.4		22-156	%REC	1	5/30/2013 03:00 PM
Surr: Tetrachloro-m-xylene	89.4		34-145	%REC	1	5/30/2013 03:00 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	17		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S36-0204

Lab ID: 1305495-22

Collection Date: 5/21/2013 05:08 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 03:15 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/30/2013 03:15 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 03:15 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 03:15 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 03:15 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 03:15 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 03:15 PM
Surr: Decachlorobiphenyl	87.8		22-156	%REC	1	5/30/2013 03:15 PM
Surr: Tetrachloro-m-xylene	116		34-145	%REC	1	5/30/2013 03:15 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	16		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S36-0406

Lab ID: 1305495-23

Collection Date: 5/21/2013 05:11 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 03:29 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 03:29 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 03:29 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 03:29 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 03:29 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 03:29 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 03:29 PM
Surr: Decachlorobiphenyl	89.0		22-156	%REC	1	5/30/2013 03:29 PM
Surr: Tetrachloro-m-xylene	91.6		34-145	%REC	1	5/30/2013 03:29 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S36-0608

Lab ID: 1305495-24

Collection Date: 5/21/2013 05:28 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/30/2013 03:44 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 03:44 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/30/2013 03:44 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/30/2013 03:44 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/30/2013 03:44 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/30/2013 03:44 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/30/2013 03:44 PM
Surr: Decachlorobiphenyl	90.2		22-156	%REC	1	5/30/2013 03:44 PM
Surr: Tetrachloro-m-xylene	91.6		34-145	%REC	1	5/30/2013 03:44 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S36-0810

Lab ID: 1305495-25

Collection Date: 5/21/2013 05:31 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 03:58 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 03:58 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 03:58 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 03:58 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 03:58 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 03:58 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 03:58 PM
Surr: Decachlorobiphenyl	88.4		22-156	%REC	1	5/30/2013 03:58 PM
Surr: Tetrachloro-m-xylene	83.0		34-145	%REC	1	5/30/2013 03:58 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	12		0.010	% of sample	1	5/28/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.34	mg/Kg-dry	1	5/29/2013 04:18 PM
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Aluminum	10,000		570	mg/Kg-dry	1	5/25/2013 03:19 PM
Antimony	ND		3.4	mg/Kg-dry	1	5/25/2013 03:19 PM
Arsenic	9.9		5.7	mg/Kg-dry	1	5/25/2013 03:19 PM
Barium	27		11	mg/Kg-dry	1	5/25/2013 03:19 PM
Beryllium	0.48		0.023	mg/Kg-dry	1	5/25/2013 03:19 PM
Cadmium	ND		1.1	mg/Kg-dry	1	5/25/2013 03:19 PM
Calcium	57,000		570	mg/Kg-dry	1	5/25/2013 03:19 PM
Chromium	16		2.3	mg/Kg-dry	1	5/25/2013 03:19 PM
Cobalt	7.2		5.7	mg/Kg-dry	1	5/25/2013 03:19 PM
Copper	22		5.7	mg/Kg-dry	1	5/25/2013 03:19 PM
Iron	25,000		110	mg/Kg-dry	1	5/25/2013 03:19 PM
Lead	9.9		5.7	mg/Kg-dry	1	5/25/2013 03:19 PM
Magnesium	12,000		110	mg/Kg-dry	1	5/25/2013 03:19 PM
Manganese	290		5.7	mg/Kg-dry	1	5/25/2013 03:19 PM
Nickel	22		5.7	mg/Kg-dry	1	5/25/2013 03:19 PM
Potassium	1,600		570	mg/Kg-dry	1	5/25/2013 03:19 PM
Selenium	5.8		3.4	mg/Kg-dry	1	5/25/2013 03:19 PM
Silver	ND		1.1	mg/Kg-dry	1	5/25/2013 03:19 PM
Sodium	ND		570	mg/Kg-dry	1	5/25/2013 03:19 PM
Thallium	ND		3.4	mg/Kg-dry	1	5/25/2013 03:19 PM
Vanadium	20		5.7	mg/Kg-dry	1	5/25/2013 03:19 PM
Zinc	56		5.7	mg/Kg-dry	1	5/25/2013 03:19 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/4/2013	Analyst: Microb

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S36-0810

Lab ID: 1305495-25

Collection Date: 5/21/2013 05:31 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		2.2	µg/Kg	1	6/7/2013 07:53 AM
4,4'-DDE	ND		2.2	µg/Kg	1	6/7/2013 07:53 AM
4,4'-DDT	ND		2.2	µg/Kg	1	6/7/2013 07:53 AM
Aldrin	ND		2.2	µg/Kg	1	6/7/2013 07:53 AM
alpha-BHC	ND		2.2	µg/Kg	1	6/7/2013 07:53 AM
alpha-Chlordane	ND		2.2	µg/Kg	1	6/7/2013 07:53 AM
beta-BHC	ND		2.2	µg/Kg	1	6/7/2013 07:53 AM
delta-BHC	ND		2.2	µg/Kg	1	6/7/2013 07:53 AM
Dieldrin	ND		2.2	µg/Kg	1	6/7/2013 07:53 AM
Endosulfan I	ND		2.2	µg/Kg	1	6/7/2013 07:53 AM
Endosulfan II	ND		2.2	µg/Kg	1	6/7/2013 07:53 AM
Endosulfan sulfate	ND		2.2	µg/Kg	1	6/7/2013 07:53 AM
Endrin	ND		2.2	µg/Kg	1	6/7/2013 07:53 AM
Endrin aldehyde	ND		2.2	µg/Kg	1	6/7/2013 07:53 AM
Endrin ketone	ND		2.2	µg/Kg	1	6/7/2013 07:53 AM
gamma-BHC (Lindane)	ND		2.2	µg/Kg	1	6/7/2013 07:53 AM
gamma-Chlordane	ND		2.2	µg/Kg	1	6/7/2013 07:53 AM
Heptachlor	ND		2.2	µg/Kg	1	6/7/2013 07:53 AM
Heptachlor epoxide	ND		2.2	µg/Kg	1	6/7/2013 07:53 AM
Methoxychlor	ND		2.2	µg/Kg	1	6/7/2013 07:53 AM
Toxaphene	ND		44	µg/Kg	1	6/7/2013 07:53 AM
<i>Surr: Decachlorobiphenyl</i>	85.6		33-143	%REC	1	6/7/2013 07:53 AM
<i>Surr: Tetrachloro-m-xylene</i>	62.1		39-130	%REC	1	6/7/2013 07:53 AM
HERBICIDES			SW8151		Prep Date: 6/4/2013	Analyst: Microb
2,4,5-T	ND		0.0063	mg/Kg	1	6/7/2013 01:01 PM
2,4,5-TP (Silvex)	ND		0.0047	mg/Kg	1	6/7/2013 01:01 PM
2,4-D	ND		0.063	mg/Kg	1	6/7/2013 01:01 PM
2,4-DB	ND		0.063	mg/Kg	1	6/7/2013 01:01 PM
Dalapon	ND		0.16	mg/Kg	1	6/7/2013 01:01 PM
Dicamba	ND		0.0063	mg/Kg	1	6/7/2013 01:01 PM
Dichlorprop	ND		0.063	mg/Kg	1	6/7/2013 01:01 PM
Dinoseb	ND		0.031	mg/Kg	1	6/7/2013 01:01 PM
MCPA	ND		6.3	mg/Kg	1	6/7/2013 01:01 PM
MCPP	ND		6.3	mg/Kg	1	6/7/2013 01:01 PM
Pentachlorophenol	ND		0.0063	mg/Kg	1	6/7/2013 01:01 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	111	S	25-110	%REC	1	6/7/2013 01:01 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 5/24/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
1,2,4-Trichlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S36-0810

Lab ID: 1305495-25

Collection Date: 5/21/2013 05:31 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
1,3-Dichlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
1,3-Dinitrobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
1,4-Dichlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
1-Methylnaphthalene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
1-Naphthylamine	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
2,3,4,6-Tetrachlorophenol	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
2,4,5-Trichlorophenol	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
2,4,6-Trichlorophenol	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
2,4-Dichlorophenol	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
2,4-Dimethylphenol	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	5/30/2013 07:49 PM
2,4-Dinitrotoluene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
2,6-Dichlorophenol	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
2,6-Dinitrotoluene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
2-Acetylaminofluorene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
2-Chloronaphthalene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
2-Chlorophenol	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
2-Methylnaphthalene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
2-Methylphenol	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
2-Naphthylamine	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/30/2013 07:49 PM
2-Nitrophenol	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
2-Picoline	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
3&4-Methylphenol	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
3,3'-Dichlorobenzidine	ND		750	µg/Kg-dry	1	5/30/2013 07:49 PM
3-Methylcholanthrene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/30/2013 07:49 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	5/30/2013 07:49 PM
4-Aminobiphenyl	ND		750	µg/Kg-dry	1	5/30/2013 07:49 PM
4-Bromophenyl phenyl ether	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
4-Chloro-3-methylphenol	ND		750	µg/Kg-dry	1	5/30/2013 07:49 PM
4-Chloroaniline	ND		750	µg/Kg-dry	1	5/30/2013 07:49 PM
4-Chlorophenyl phenyl ether	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
4-Nitroaniline	ND		750	µg/Kg-dry	1	5/30/2013 07:49 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	5/30/2013 07:49 PM
4-Nitroquinoline 1-oxide	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
5-Nitro-o-toluidine	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
7,12-Dimethylbenz(a)anthracene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Acenaphthene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S36-0810

Lab ID: 1305495-25

Collection Date: 5/21/2013 05:31 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Acetophenone	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Aniline	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Anthracene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Azobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Benzidine	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Benzo(a)anthracene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Benzo(a)pyrene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Benzo(b)fluoranthene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Benzo(g,h,i)perylene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Benzo(k)fluoranthene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Benzyl alcohol	ND		750	µg/Kg-dry	1	5/30/2013 07:49 PM
Bis(2-chloroethoxy)methane	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Bis(2-chloroethyl)ether	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Bis(2-chloroisopropyl)ether	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Bis(2-ethylhexyl)phthalate	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Butyl benzyl phthalate	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Carbazole	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Chrysene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Dibenzo(a,h)anthracene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Dibenzofuran	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Diethyl phthalate	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Dimethyl phthalate	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Di-n-butyl phthalate	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Di-n-octyl phthalate	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Dinoseb	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Diphenylamine	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Ethyl methanesulfonate	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Fluoranthene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Fluorene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Hexachlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Hexachlorobutadiene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Hexachlorocyclopentadiene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Hexachloroethane	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Indeno(1,2,3-cd)pyrene	ND		170	µg/Kg-dry	1	5/30/2013 07:49 PM
Isophorone	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Isosafrole	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Methapyrilene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Methyl methanesulfonate	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Naphthalene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S36-0810

Lab ID: 1305495-25

Collection Date: 5/21/2013 05:31 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
N-Nitrosodiethylamine	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
N-Nitrosodimethylamine	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
N-Nitroso-di-n-butylamine	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
N-Nitrosodi-n-propylamine	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
N-Nitrosomethylethylamine	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
N-Nitrosomorpholine	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
N-Nitrosopiperidine	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
N-Nitrosopyrrolidine	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
o-Toluidine	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
p-Dimethylaminoazobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Pentachlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Pentachloroethane	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Pentachloronitrobenzene	ND		750	µg/Kg-dry	1	5/30/2013 07:49 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	5/30/2013 07:49 PM
Phenacetin	ND		750	µg/Kg-dry	1	5/30/2013 07:49 PM
Phenanthrene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Phenol	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Pyrene	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Pyridine	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Safrole	ND		380	µg/Kg-dry	1	5/30/2013 07:49 PM
Surr: 2,4,6-Tribromophenol	63.3		18-115	%REC	1	5/30/2013 07:49 PM
Surr: 2-Fluorobiphenyl	73.1		30-116	%REC	1	5/30/2013 07:49 PM
Surr: 2-Fluorophenol	62.1		24-105	%REC	1	5/30/2013 07:49 PM
Surr: 4-Terphenyl-d14	63.5		40-127	%REC	1	5/30/2013 07:49 PM
Surr: Nitrobenzene-d5	85.6		32-106	%REC	1	5/30/2013 07:49 PM
Surr: Phenol-d5	67.8		39-123	%REC	1	5/30/2013 07:49 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/29/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
1,1,1-Trichloroethane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
1,1,2,2-Tetrachloroethane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
1,1,2-Trichloroethane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
1,1-Dichloroethane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
1,1-Dichloroethene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
1,1-Dichloropropene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
1,2,3-Trichlorobenzene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
1,2,3-Trichloropropane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
1,2,4-Trichlorobenzene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
1,2,4-Trimethylbenzene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
1,2-Dibromo-3-chloropropane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S36-0810

Lab ID: 1305495-25

Collection Date: 5/21/2013 05:31 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
1,2-Dichlorobenzene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
1,2-Dichloroethane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
1,2-Dichloropropane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
1,3,5-Trimethylbenzene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
1,3-Dichlorobenzene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
1,3-Dichloropropane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
1,4-Dichlorobenzene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
2,2-Dichloropropane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
2-Butanone	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
2-Chlorotoluene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
2-Hexanone	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
4-Chlorotoluene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
4-Methyl-2-pentanone	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Acetone	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Benzene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Bromobenzene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Bromochloromethane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Bromodichloromethane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Bromoform	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Bromomethane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Carbon disulfide	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Carbon tetrachloride	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Chlorobenzene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Chloroethane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Chloroform	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Chloromethane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
cis-1,2-Dichloroethene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
cis-1,3-Dichloropropene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Dibromochloromethane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Dibromomethane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Dichlorodifluoromethane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Ethylbenzene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Hexachlorobutadiene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Isopropylbenzene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
m,p-Xylene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Methyl tert-butyl ether	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Methylene chloride	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Naphthalene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
n-Butylbenzene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S36-0810

Lab ID: 1305495-25

Collection Date: 5/21/2013 05:31 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
o-Xylene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
p-Isopropyltoluene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
sec-Butylbenzene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Styrene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
tert-Butylbenzene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Tetrachloroethene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Toluene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
trans-1,2-Dichloroethene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
trans-1,3-Dichloropropene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Trichloroethene	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Trichlorofluoromethane	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Vinyl chloride	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
Xylenes, Total	ND		4.5	µg/Kg-dry	1	5/29/2013 06:33 PM
<i>Surr: 4-Bromofluorobenzene</i>	109		62.7-159	%REC	1	5/29/2013 06:33 PM
<i>Surr: Dibromofluoromethane</i>	109		88.2-133	%REC	1	5/29/2013 06:33 PM
<i>Surr: Toluene-d8</i>	98.7		81.5-110	%REC	1	5/29/2013 06:33 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: TB-052113

Lab ID: 1305495-26

Collection Date: 5/21/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: LAK
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	5/29/2013 04:46 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	5/29/2013 04:46 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	5/29/2013 04:46 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	5/29/2013 04:46 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	5/29/2013 04:46 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	5/29/2013 04:46 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	5/29/2013 04:46 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	5/29/2013 04:46 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	5/29/2013 04:46 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	5/29/2013 04:46 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	5/29/2013 04:46 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	5/29/2013 04:46 PM
2-Butanone	ND		5.0	µg/L	1	5/29/2013 04:46 PM
2-Chlorotoluene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
2-Hexanone	ND		5.0	µg/L	1	5/29/2013 04:46 PM
4-Chlorotoluene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Acetone	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Benzene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Bromobenzene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Bromochloromethane	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Bromodichloromethane	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Bromoform	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Bromomethane	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Carbon disulfide	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Carbon tetrachloride	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Chlorobenzene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Chloroethane	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Chloroform	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Chloromethane	ND		5.0	µg/L	1	5/29/2013 04:46 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: TB-052113

Lab ID: 1305495-26

Collection Date: 5/21/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Dibromochloromethane	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Dibromomethane	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Ethylbenzene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Isopropylbenzene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
m,p-Xylene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Methylene chloride	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Naphthalene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
n-Butylbenzene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
n-Propylbenzene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
o-Xylene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
sec-Butylbenzene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Styrene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
tert-Butylbenzene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Tetrachloroethene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Toluene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Trichloroethene	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	5/29/2013 04:46 PM
Vinyl chloride	ND		2.0	µg/L	1	5/29/2013 04:46 PM
Xylenes, Total	ND		5.0	µg/L	1	5/29/2013 04:46 PM
<i>Surr: 4-Bromofluorobenzene</i>	95.7		61-131	%REC	1	5/29/2013 04:46 PM
<i>Surr: Dibromofluoromethane</i>	102		87-126	%REC	1	5/29/2013 04:46 PM
<i>Surr: Toluene-d8</i>	102		84-111	%REC	1	5/29/2013 04:46 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S21-0002

Lab ID: 1305495-27

Collection Date: 5/22/2013 10:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 04:12 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/30/2013 04:12 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 04:12 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 04:12 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 04:12 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 04:12 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 04:12 PM
Surr: Decachlorobiphenyl	91.4		22-156	%REC	1	5/30/2013 04:12 PM
Surr: Tetrachloro-m-xylene	91.2		34-145	%REC	1	5/30/2013 04:12 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	17		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S21-0204

Lab ID: 1305495-28

Collection Date: 5/22/2013 10:32 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/30/2013 04:27 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 04:27 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/30/2013 04:27 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/30/2013 04:27 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/30/2013 04:27 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/30/2013 04:27 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/30/2013 04:27 PM
Surr: Decachlorobiphenyl	90.0		22-156	%REC	1	5/30/2013 04:27 PM
Surr: Tetrachloro-m-xylene	83.8		34-145	%REC	1	5/30/2013 04:27 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	12		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S21-0406

Lab ID: 1305495-29

Collection Date: 5/22/2013 10:36 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/30/2013 04:56 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 04:56 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/30/2013 04:56 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/30/2013 04:56 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/30/2013 04:56 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/30/2013 04:56 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/30/2013 04:56 PM
Surr: Decachlorobiphenyl	91.4		22-156	%REC	1	5/30/2013 04:56 PM
Surr: Tetrachloro-m-xylene	85.4		34-145	%REC	1	5/30/2013 04:56 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	12		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S21-0608

Lab ID: 1305495-30

Collection Date: 5/22/2013 10:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/30/2013 05:10 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 05:10 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/30/2013 05:10 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/30/2013 05:10 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/30/2013 05:10 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/30/2013 05:10 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/30/2013 05:10 PM
Surr: Decachlorobiphenyl	88.0		22-156	%REC	1	5/30/2013 05:10 PM
Surr: Tetrachloro-m-xylene	82.0		34-145	%REC	1	5/30/2013 05:10 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	12		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S21-0810

Lab ID: 1305495-31

Collection Date: 5/22/2013 10:56 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/30/2013 05:25 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 05:25 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/30/2013 05:25 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/30/2013 05:25 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/30/2013 05:25 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/30/2013 05:25 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/30/2013 05:25 PM
Surr: Decachlorobiphenyl	80.0		22-156	%REC	1	5/30/2013 05:25 PM
Surr: Tetrachloro-m-xylene	75.2		34-145	%REC	1	5/30/2013 05:25 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/28/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.32	mg/Kg-dry	1	5/29/2013 04:20 PM
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Aluminum	9,700		570	mg/Kg-dry	1	5/25/2013 03:25 PM
Antimony	ND		3.4	mg/Kg-dry	1	5/25/2013 03:25 PM
Arsenic	13		5.7	mg/Kg-dry	1	5/25/2013 03:25 PM
Barium	27		11	mg/Kg-dry	1	5/25/2013 03:25 PM
Beryllium	0.50		0.023	mg/Kg-dry	1	5/25/2013 03:25 PM
Cadmium	ND		1.1	mg/Kg-dry	1	5/25/2013 03:25 PM
Calcium	57,000		570	mg/Kg-dry	1	5/25/2013 03:25 PM
Chromium	16		2.3	mg/Kg-dry	1	5/25/2013 03:25 PM
Cobalt	15		5.7	mg/Kg-dry	1	5/25/2013 03:25 PM
Copper	21		5.7	mg/Kg-dry	1	5/25/2013 03:25 PM
Iron	27,000		110	mg/Kg-dry	1	5/25/2013 03:25 PM
Lead	13		5.7	mg/Kg-dry	1	5/25/2013 03:25 PM
Magnesium	12,000		110	mg/Kg-dry	1	5/25/2013 03:25 PM
Manganese	410		5.7	mg/Kg-dry	1	5/25/2013 03:25 PM
Nickel	32		5.7	mg/Kg-dry	1	5/25/2013 03:25 PM
Potassium	1,700		570	mg/Kg-dry	1	5/25/2013 03:25 PM
Selenium	ND		3.4	mg/Kg-dry	1	5/25/2013 03:25 PM
Silver	ND		1.1	mg/Kg-dry	1	5/25/2013 03:25 PM
Sodium	ND		570	mg/Kg-dry	1	5/25/2013 03:25 PM
Thallium	ND		3.4	mg/Kg-dry	1	5/25/2013 03:25 PM
Vanadium	18		5.7	mg/Kg-dry	1	5/25/2013 03:25 PM
Zinc	58		5.7	mg/Kg-dry	1	5/25/2013 03:25 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/4/2013	Analyst: Microb

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S21-0810

Lab ID: 1305495-31

Collection Date: 5/22/2013 10:56 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		60	µg/Kg	1	6/7/2013 08:21 AM
4,4'-DDE	ND		60	µg/Kg	1	6/7/2013 08:21 AM
4,4'-DDT	ND		60	µg/Kg	1	6/7/2013 08:21 AM
Aldrin	ND		60	µg/Kg	1	6/7/2013 08:21 AM
alpha-BHC	ND		60	µg/Kg	1	6/7/2013 08:21 AM
alpha-Chlordane	ND		60	µg/Kg	1	6/7/2013 08:21 AM
beta-BHC	ND		60	µg/Kg	1	6/7/2013 08:21 AM
delta-BHC	ND		60	µg/Kg	1	6/7/2013 08:21 AM
Dieldrin	ND		60	µg/Kg	1	6/7/2013 08:21 AM
Endosulfan I	ND		60	µg/Kg	1	6/7/2013 08:21 AM
Endosulfan II	ND		60	µg/Kg	1	6/7/2013 08:21 AM
Endosulfan sulfate	ND		60	µg/Kg	1	6/7/2013 08:21 AM
Endrin	ND		60	µg/Kg	1	6/7/2013 08:21 AM
Endrin aldehyde	ND		60	µg/Kg	1	6/7/2013 08:21 AM
Endrin ketone	ND		60	µg/Kg	1	6/7/2013 08:21 AM
gamma-BHC (Lindane)	ND		60	µg/Kg	1	6/7/2013 08:21 AM
gamma-Chlordane	ND		60	µg/Kg	1	6/7/2013 08:21 AM
Heptachlor	ND		60	µg/Kg	1	6/7/2013 08:21 AM
Heptachlor epoxide	ND		60	µg/Kg	1	6/7/2013 08:21 AM
Methoxychlor	ND		60	µg/Kg	1	6/7/2013 08:21 AM
Toxaphene	ND		1,200	µg/Kg	1	6/7/2013 08:21 AM
<i>Surr: Decachlorobiphenyl</i>	94.8		33-143	%REC	1	6/7/2013 08:21 AM
<i>Surr: Tetrachloro-m-xylene</i>	63.9		39-130	%REC	1	6/7/2013 08:21 AM

HERBICIDES

SW8151

Prep Date: 6/4/2013

Analyst: Microb

2,4,5-T	ND		0.0053	mg/Kg	1	6/7/2013 01:27 PM
2,4,5-TP (Silvex)	ND		0.0040	mg/Kg	1	6/7/2013 01:27 PM
2,4-D	ND		0.053	mg/Kg	1	6/7/2013 01:27 PM
2,4-DB	ND		0.053	mg/Kg	1	6/7/2013 01:27 PM
Dalapon	ND		0.13	mg/Kg	1	6/7/2013 01:27 PM
Dicamba	ND		0.0053	mg/Kg	1	6/7/2013 01:27 PM
Dichlorprop	ND		0.053	mg/Kg	1	6/7/2013 01:27 PM
Dinoseb	ND		0.027	mg/Kg	1	6/7/2013 01:27 PM
MCPA	ND		5.3	mg/Kg	1	6/7/2013 01:27 PM
MCPP	ND		5.3	mg/Kg	1	6/7/2013 01:27 PM
Pentachlorophenol	ND		0.0053	mg/Kg	1	6/7/2013 01:27 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	92.0		25-110	%REC	1	6/7/2013 01:27 PM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 5/24/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
1,2,4-Trichlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S21-0810

Lab ID: 1305495-31

Collection Date: 5/22/2013 10:56 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
1,3-Dichlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
1,3-Dinitrobenzene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
1,4-Dichlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
1-Methylnaphthalene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
1-Naphthylamine	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
2,3,4,6-Tetrachlorophenol	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
2,4,5-Trichlorophenol	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
2,4,6-Trichlorophenol	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
2,4-Dichlorophenol	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
2,4-Dimethylphenol	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	5/30/2013 08:25 PM
2,4-Dinitrotoluene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
2,6-Dichlorophenol	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
2,6-Dinitrotoluene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
2-Acetylaminofluorene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
2-Chloronaphthalene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
2-Chlorophenol	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
2-Methylnaphthalene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
2-Methylphenol	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
2-Naphthylamine	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/30/2013 08:25 PM
2-Nitrophenol	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
2-Picoline	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
3&4-Methylphenol	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
3,3'-Dichlorobenzidine	ND		760	µg/Kg-dry	1	5/30/2013 08:25 PM
3-Methylcholanthrene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/30/2013 08:25 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	5/30/2013 08:25 PM
4-Aminobiphenyl	ND		760	µg/Kg-dry	1	5/30/2013 08:25 PM
4-Bromophenyl phenyl ether	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
4-Chloro-3-methylphenol	ND		760	µg/Kg-dry	1	5/30/2013 08:25 PM
4-Chloroaniline	ND		760	µg/Kg-dry	1	5/30/2013 08:25 PM
4-Chlorophenyl phenyl ether	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
4-Nitroaniline	ND		760	µg/Kg-dry	1	5/30/2013 08:25 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	5/30/2013 08:25 PM
4-Nitroquinoline 1-oxide	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
5-Nitro-o-toluidine	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
7,12-Dimethylbenz(a)anthracene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Acenaphthene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S21-0810

Lab ID: 1305495-31

Collection Date: 5/22/2013 10:56 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Acetophenone	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Aniline	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Anthracene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Azobenzene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Benzidine	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Benzo(a)anthracene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Benzo(a)pyrene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Benzo(b)fluoranthene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Benzo(g,h,i)perylene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Benzo(k)fluoranthene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Benzyl alcohol	ND		760	µg/Kg-dry	1	5/30/2013 08:25 PM
Bis(2-chloroethoxy)methane	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Bis(2-chloroethyl)ether	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Bis(2-chloroisopropyl)ether	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Bis(2-ethylhexyl)phthalate	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Butyl benzyl phthalate	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Carbazole	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Chrysene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Dibenzo(a,h)anthracene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Dibenzofuran	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Diethyl phthalate	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Dimethyl phthalate	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Di-n-butyl phthalate	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Di-n-octyl phthalate	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Dinoseb	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Diphenylamine	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Ethyl methanesulfonate	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Fluoranthene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Fluorene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Hexachlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Hexachlorobutadiene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Hexachlorocyclopentadiene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Hexachloroethane	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Indeno(1,2,3-cd)pyrene	ND		170	µg/Kg-dry	1	5/30/2013 08:25 PM
Isophorone	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Isosafrole	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Methapyrilene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Methyl methanesulfonate	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Naphthalene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S21-0810

Lab ID: 1305495-31

Collection Date: 5/22/2013 10:56 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
N-Nitrosodiethylamine	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
N-Nitrosodimethylamine	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
N-Nitroso-di-n-butylamine	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
N-Nitrosodi-n-propylamine	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
N-Nitrosomethylethylamine	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
N-Nitrosomorpholine	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
N-Nitrosopiperidine	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
N-Nitrosopyrrolidine	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
o-Toluidine	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
p-Dimethylaminoazobenzene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Pentachlorobenzene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Pentachloroethane	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Pentachloronitrobenzene	ND		760	µg/Kg-dry	1	5/30/2013 08:25 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	5/30/2013 08:25 PM
Phenacetin	ND		760	µg/Kg-dry	1	5/30/2013 08:25 PM
Phenanthrene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Phenol	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Pyrene	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Pyridine	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Safrole	ND		380	µg/Kg-dry	1	5/30/2013 08:25 PM
Surr: 2,4,6-Tribromophenol	79.5		18-115	%REC	1	5/30/2013 08:25 PM
Surr: 2-Fluorobiphenyl	78.1		30-116	%REC	1	5/30/2013 08:25 PM
Surr: 2-Fluorophenol	73.7		24-105	%REC	1	5/30/2013 08:25 PM
Surr: 4-Terphenyl-d14	71.3		40-127	%REC	1	5/30/2013 08:25 PM
Surr: Nitrobenzene-d5	94.7		32-106	%REC	1	5/30/2013 08:25 PM
Surr: Phenol-d5	75.3		39-123	%REC	1	5/30/2013 08:25 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/29/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
1,1,1-Trichloroethane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
1,1,2,2-Tetrachloroethane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
1,1,2-Trichloroethane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
1,1-Dichloroethane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
1,1-Dichloroethene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
1,1-Dichloropropene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
1,2,3-Trichlorobenzene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
1,2,3-Trichloropropane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
1,2,4-Trichlorobenzene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
1,2,4-Trimethylbenzene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
1,2-Dibromo-3-chloropropane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S21-0810

Lab ID: 1305495-31

Collection Date: 5/22/2013 10:56 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
1,2-Dichlorobenzene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
1,2-Dichloroethane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
1,2-Dichloropropane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
1,3,5-Trimethylbenzene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
1,3-Dichlorobenzene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
1,3-Dichloropropane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
1,4-Dichlorobenzene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
2,2-Dichloropropane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
2-Butanone	7.2		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
2-Chlorotoluene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
2-Hexanone	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
4-Chlorotoluene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
4-Methyl-2-pentanone	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Acetone	32		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Benzene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Bromobenzene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Bromochloromethane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Bromodichloromethane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Bromoform	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Bromomethane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Carbon disulfide	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Carbon tetrachloride	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Chlorobenzene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Chloroethane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Chloroform	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Chloromethane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
cis-1,2-Dichloroethene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
cis-1,3-Dichloropropene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Dibromochloromethane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Dibromomethane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Dichlorodifluoromethane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Ethylbenzene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Hexachlorobutadiene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Isopropylbenzene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
m,p-Xylene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Methyl tert-butyl ether	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Methylene chloride	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Naphthalene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
n-Butylbenzene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S21-0810

Lab ID: 1305495-31

Collection Date: 5/22/2013 10:56 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
o-Xylene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
p-Isopropyltoluene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
sec-Butylbenzene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Styrene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
tert-Butylbenzene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Tetrachloroethene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Toluene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
trans-1,2-Dichloroethene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
trans-1,3-Dichloropropene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Trichloroethene	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Trichlorofluoromethane	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Vinyl chloride	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
Xylenes, Total	ND		5.3	µg/Kg-dry	1	5/29/2013 07:04 PM
<i>Surr: 4-Bromofluorobenzene</i>	125		62.7-159	%REC	1	5/29/2013 07:04 PM
<i>Surr: Dibromofluoromethane</i>	102		88.2-133	%REC	1	5/29/2013 07:04 PM
<i>Surr: Toluene-d8</i>	93.3		81.5-110	%REC	1	5/29/2013 07:04 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S22-0002

Lab ID: 1305495-32

Collection Date: 5/22/2013 09:43 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 05:39 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/30/2013 05:39 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 05:39 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 05:39 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 05:39 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 05:39 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 05:39 PM
Surr: Decachlorobiphenyl	90.6		22-156	%REC	1	5/30/2013 05:39 PM
Surr: Tetrachloro-m-xylene	93.2		34-145	%REC	1	5/30/2013 05:39 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	16		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S22-0204

Lab ID: 1305495-33

Collection Date: 5/22/2013 09:48 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/30/2013 06:02 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 06:02 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/30/2013 06:02 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/30/2013 06:02 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/30/2013 06:02 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/30/2013 06:02 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/30/2013 06:02 PM
Surr: Decachlorobiphenyl	89.2		22-156	%REC	1	5/30/2013 06:02 PM
Surr: Tetrachloro-m-xylene	91.6		34-145	%REC	1	5/30/2013 06:02 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	12		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S22-0406

Lab ID: 1305495-34

Collection Date: 5/22/2013 09:51 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 06:16 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 06:16 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 06:16 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 06:16 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 06:16 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 06:16 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 06:16 PM
Surr: Decachlorobiphenyl	91.0		22-156	%REC	1	5/30/2013 06:16 PM
Surr: Tetrachloro-m-xylene	89.4		34-145	%REC	1	5/30/2013 06:16 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S22-0608

Lab ID: 1305495-35

Collection Date: 5/22/2013 09:58 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 06:30 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 06:30 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 06:30 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 06:30 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 06:30 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 06:30 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 06:30 PM
Surr: Decachlorobiphenyl	91.8		22-156	%REC	1	5/30/2013 06:30 PM
Surr: Tetrachloro-m-xylene	89.2		34-145	%REC	1	5/30/2013 06:30 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S22-0810

Lab ID: 1305495-36

Collection Date: 5/22/2013 10:06 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/31/2013 01:40 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/31/2013 01:40 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/31/2013 01:40 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/31/2013 01:40 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/31/2013 01:40 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/31/2013 01:40 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/31/2013 01:40 PM
Surr: Decachlorobiphenyl	88.0		22-156	%REC	1	5/31/2013 01:40 PM
Surr: Tetrachloro-m-xylene	80.8		34-145	%REC	1	5/31/2013 01:40 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S24-0002

Lab ID: 1305495-37

Collection Date: 5/22/2013 11:18 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	5/31/2013 01:40 PM
Aroclor 1221	ND		0.25	mg/Kg-dry	1	5/31/2013 01:40 PM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	5/31/2013 01:40 PM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	5/31/2013 01:40 PM
Aroclor 1248	ND		0.13	mg/Kg-dry	1	5/31/2013 01:40 PM
Aroclor 1254	ND		0.13	mg/Kg-dry	1	5/31/2013 01:40 PM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	5/31/2013 01:40 PM
Surr: Decachlorobiphenyl	87.6		22-156	%REC	1	5/31/2013 01:40 PM
Surr: Tetrachloro-m-xylene	84.2		34-145	%REC	1	5/31/2013 01:40 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	20		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S24-0204

Lab ID: 1305495-38

Collection Date: 5/22/2013 11:21 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	5/30/2013 07:14 PM
Aroclor 1221	ND		0.25	mg/Kg-dry	1	5/30/2013 07:14 PM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	5/30/2013 07:14 PM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	5/30/2013 07:14 PM
Aroclor 1248	ND		0.13	mg/Kg-dry	1	5/30/2013 07:14 PM
Aroclor 1254	ND		0.13	mg/Kg-dry	1	5/30/2013 07:14 PM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	5/30/2013 07:14 PM
Surr: Decachlorobiphenyl	84.0		22-156	%REC	1	5/30/2013 07:14 PM
Surr: Tetrachloro-m-xylene	82.6		34-145	%REC	1	5/30/2013 07:14 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	20		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S24-0406

Lab ID: 1305495-39

Collection Date: 5/22/2013 11:22 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	5/30/2013 07:28 PM
Aroclor 1221	ND		0.25	mg/Kg-dry	1	5/30/2013 07:28 PM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	5/30/2013 07:28 PM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	5/30/2013 07:28 PM
Aroclor 1248	ND		0.13	mg/Kg-dry	1	5/30/2013 07:28 PM
Aroclor 1254	ND		0.13	mg/Kg-dry	1	5/30/2013 07:28 PM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	5/30/2013 07:28 PM
Surr: Decachlorobiphenyl	84.8		22-156	%REC	1	5/30/2013 07:28 PM
Surr: Tetrachloro-m-xylene	83.8		34-145	%REC	1	5/30/2013 07:28 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	20		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S24-0608

Lab ID: 1305495-40

Collection Date: 5/22/2013 11:28 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 08:55 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 08:55 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 08:55 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 08:55 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 08:55 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 08:55 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 08:55 PM
Surr: Decachlorobiphenyl	88.8		22-156	%REC	1	5/30/2013 08:55 PM
Surr: Tetrachloro-m-xylene	83.0		34-145	%REC	1	5/30/2013 08:55 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S24-0810

Lab ID: 1305495-41

Collection Date: 5/22/2013 11:36 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 09:09 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/30/2013 09:09 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 09:09 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 09:09 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 09:09 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 09:09 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 09:09 PM
Surr: Decachlorobiphenyl	88.2		22-156	%REC	1	5/30/2013 09:09 PM
Surr: Tetrachloro-m-xylene	82.0		34-145	%REC	1	5/30/2013 09:09 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	17		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S25-0002

Lab ID: 1305495-42

Collection Date: 5/22/2013 01:28 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 09:24 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 09:24 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 09:24 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 09:24 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 09:24 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 09:24 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 09:24 PM
Surr: Decachlorobiphenyl	90.0		22-156	%REC	1	5/30/2013 09:24 PM
Surr: Tetrachloro-m-xylene	90.0		34-145	%REC	1	5/30/2013 09:24 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S25-0002-B

Lab ID: 1305495-43

Collection Date: 5/22/2013 01:28 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/29/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	5/29/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/29/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/29/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/29/2013
Aroclor 1254	0.46		0.11	mg/Kg-dry	1	5/29/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/29/2013
Surr: Decachlorobiphenyl	89.4		22-156	%REC	1	5/29/2013
Surr: Tetrachloro-m-xylene	96.8		34-145	%REC	1	5/29/2013
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	10		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S25-0204

Lab ID: 1305495-44

Collection Date: 5/22/2013 01:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 09:53 PM
Aroclor 1221	ND		0.25	mg/Kg-dry	1	5/30/2013 09:53 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 09:53 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 09:53 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 09:53 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 09:53 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 09:53 PM
Surr: Decachlorobiphenyl	91.6		22-156	%REC	1	5/30/2013 09:53 PM
Surr: Tetrachloro-m-xylene	106		34-145	%REC	1	5/30/2013 09:53 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	19		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S25-0406

Lab ID: 1305495-45

Collection Date: 5/22/2013 01:35 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 10:07 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/30/2013 10:07 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 10:07 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 10:07 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 10:07 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 10:07 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 10:07 PM
Surr: Decachlorobiphenyl	90.8		22-156	%REC	1	5/30/2013 10:07 PM
Surr: Tetrachloro-m-xylene	84.8		34-145	%REC	1	5/30/2013 10:07 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	16		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S25-0608

Lab ID: 1305495-46

Collection Date: 5/22/2013 01:41 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 10:21 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/30/2013 10:21 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 10:21 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 10:21 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 10:21 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 10:21 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 10:21 PM
Surr: Decachlorobiphenyl	90.4		22-156	%REC	1	5/30/2013 10:21 PM
Surr: Tetrachloro-m-xylene	84.6		34-145	%REC	1	5/30/2013 10:21 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S25-0810

Lab ID: 1305495-47

Collection Date: 5/22/2013 01:45 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/30/2013 10:36 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 10:36 PM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/30/2013 10:36 PM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/30/2013 10:36 PM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/30/2013 10:36 PM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/30/2013 10:36 PM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/30/2013 10:36 PM
Surr: Decachlorobiphenyl	90.0		22-156	%REC	1	5/30/2013 10:36 PM
Surr: Tetrachloro-m-xylene	82.6		34-145	%REC	1	5/30/2013 10:36 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	12		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S26-0002

Lab ID: 1305495-48

Collection Date: 5/22/2013 08:42 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/29/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	5/29/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/29/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/29/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/29/2013
Aroclor 1254	0.21		0.11	mg/Kg-dry	1	5/29/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/29/2013
Surr: Decachlorobiphenyl	93.2		22-156	%REC	1	5/29/2013
Surr: Tetrachloro-m-xylene	92.0		34-145	%REC	1	5/29/2013
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	10		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S26-0204

Lab ID: 1305495-49

Collection Date: 5/22/2013 08:45 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 11:05 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 11:05 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 11:05 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 11:05 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 11:05 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 11:05 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 11:05 PM
Surr: Decachlorobiphenyl	93.4		22-156	%REC	1	5/30/2013 11:05 PM
Surr: Tetrachloro-m-xylene	90.6		34-145	%REC	1	5/30/2013 11:05 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S26-0406

Lab ID: 1305495-50

Collection Date: 5/22/2013 08:47 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 11:19 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 11:19 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 11:19 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 11:19 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 11:19 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 11:19 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 11:19 PM
Surr: Decachlorobiphenyl	94.0		22-156	%REC	1	5/30/2013 11:19 PM
Surr: Tetrachloro-m-xylene	90.4		34-145	%REC	1	5/30/2013 11:19 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	5/28/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.35	mg/Kg-dry	1	5/29/2013 04:22 PM
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Aluminum	7,800		580	mg/Kg-dry	1	5/25/2013 03:32 PM
Antimony	ND		3.5	mg/Kg-dry	1	5/25/2013 03:32 PM
Arsenic	7.8		5.8	mg/Kg-dry	1	5/25/2013 03:32 PM
Barium	42		12	mg/Kg-dry	1	5/25/2013 03:32 PM
Beryllium	0.43		0.023	mg/Kg-dry	1	5/25/2013 03:32 PM
Cadmium	ND		1.2	mg/Kg-dry	1	5/25/2013 03:32 PM
Calcium	16,000		580	mg/Kg-dry	1	5/25/2013 03:32 PM
Chromium	12		2.3	mg/Kg-dry	1	5/25/2013 03:32 PM
Cobalt	7.4		5.8	mg/Kg-dry	1	5/25/2013 03:32 PM
Copper	12		5.8	mg/Kg-dry	1	5/25/2013 03:32 PM
Iron	16,000		120	mg/Kg-dry	1	5/25/2013 03:32 PM
Lead	9.7		5.8	mg/Kg-dry	1	5/25/2013 03:32 PM
Magnesium	3,900		120	mg/Kg-dry	1	5/25/2013 03:32 PM
Manganese	270		5.8	mg/Kg-dry	1	5/25/2013 03:32 PM
Nickel	19		5.8	mg/Kg-dry	1	5/25/2013 03:32 PM
Potassium	690		580	mg/Kg-dry	1	5/25/2013 03:32 PM
Selenium	ND		3.5	mg/Kg-dry	1	5/25/2013 03:32 PM
Silver	ND		1.2	mg/Kg-dry	1	5/25/2013 03:32 PM
Sodium	ND		580	mg/Kg-dry	1	5/25/2013 03:32 PM
Thallium	ND		3.5	mg/Kg-dry	1	5/25/2013 03:32 PM
Vanadium	16		5.8	mg/Kg-dry	1	5/25/2013 03:32 PM
Zinc	45		5.8	mg/Kg-dry	1	5/25/2013 03:32 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/4/2013	Analyst: Microb

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S26-0406

Lab ID: 1305495-50

Collection Date: 5/22/2013 08:47 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	2.5		1.8	µg/Kg	1	6/7/2013 08:49 AM
4,4'-DDE	ND		1.8	µg/Kg	1	6/7/2013 08:49 AM
4,4'-DDT	ND		1.8	µg/Kg	1	6/7/2013 08:49 AM
Aldrin	ND		1.8	µg/Kg	1	6/7/2013 08:49 AM
alpha-BHC	ND		1.8	µg/Kg	1	6/7/2013 08:49 AM
alpha-Chlordane	ND		1.8	µg/Kg	1	6/7/2013 08:49 AM
beta-BHC	ND		1.8	µg/Kg	1	6/7/2013 08:49 AM
delta-BHC	ND		1.8	µg/Kg	1	6/7/2013 08:49 AM
Dieldrin	ND		1.8	µg/Kg	1	6/7/2013 08:49 AM
Endosulfan I	ND		1.8	µg/Kg	1	6/7/2013 08:49 AM
Endosulfan II	ND		1.8	µg/Kg	1	6/7/2013 08:49 AM
Endosulfan sulfate	ND		1.8	µg/Kg	1	6/7/2013 08:49 AM
Endrin	ND		1.8	µg/Kg	1	6/7/2013 08:49 AM
Endrin aldehyde	ND		1.8	µg/Kg	1	6/7/2013 08:49 AM
Endrin ketone	ND		1.8	µg/Kg	1	6/7/2013 08:49 AM
gamma-BHC (Lindane)	ND		1.8	µg/Kg	1	6/7/2013 08:49 AM
gamma-Chlordane	ND		1.8	µg/Kg	1	6/7/2013 08:49 AM
Heptachlor	ND		1.8	µg/Kg	1	6/7/2013 08:49 AM
Heptachlor epoxide	ND		1.8	µg/Kg	1	6/7/2013 08:49 AM
Methoxychlor	ND		1.8	µg/Kg	1	6/7/2013 08:49 AM
Toxaphene	ND		37	µg/Kg	1	6/7/2013 08:49 AM
<i>Surr: Decachlorobiphenyl</i>	65.1		33-143	%REC	1	6/7/2013 08:49 AM
<i>Surr: Tetrachloro-m-xylene</i>	58.8		39-130	%REC	1	6/7/2013 08:49 AM
HERBICIDES			SW8151		Prep Date: 6/4/2013	Analyst: Microb
2,4,5-T	ND		0.0054	mg/Kg	1	6/7/2013 01:53 PM
2,4,5-TP (Silvex)	ND		0.0040	mg/Kg	1	6/7/2013 01:53 PM
2,4-D	ND		0.054	mg/Kg	1	6/7/2013 01:53 PM
2,4-DB	ND		0.054	mg/Kg	1	6/7/2013 01:53 PM
Dalapon	ND		0.14	mg/Kg	1	6/7/2013 01:53 PM
Dicamba	ND		0.0054	mg/Kg	1	6/7/2013 01:53 PM
Dichlorprop	ND		0.054	mg/Kg	1	6/7/2013 01:53 PM
Dinoseb	ND		0.027	mg/Kg	1	6/7/2013 01:53 PM
MCPA	ND		5.4	mg/Kg	1	6/7/2013 01:53 PM
MCPP	ND		5.4	mg/Kg	1	6/7/2013 01:53 PM
Pentachlorophenol	ND		0.0054	mg/Kg	1	6/7/2013 01:53 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	65.6		25-110	%REC	1	6/7/2013 01:53 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 5/28/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
1,2,4-Trichlorobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S26-0406

Lab ID: 1305495-50

Collection Date: 5/22/2013 08:47 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
1,3-Dichlorobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
1,3-Dinitrobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
1,4-Dichlorobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
1-Methylnaphthalene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
1-Naphthylamine	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
2,3,4,6-Tetrachlorophenol	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
2,4,5-Trichlorophenol	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
2,4,6-Trichlorophenol	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
2,4-Dichlorophenol	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
2,4-Dimethylphenol	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	5/30/2013 09:01 PM
2,4-Dinitrotoluene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
2,6-Dichlorophenol	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
2,6-Dinitrotoluene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
2-Acetylaminofluorene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
2-Chloronaphthalene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
2-Chlorophenol	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
2-Methylnaphthalene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
2-Methylphenol	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
2-Naphthylamine	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/30/2013 09:01 PM
2-Nitrophenol	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
2-Picoline	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
3&4-Methylphenol	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
3,3'-Dichlorobenzidine	ND		780	µg/Kg-dry	1	5/30/2013 09:01 PM
3-Methylcholanthrene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/30/2013 09:01 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	5/30/2013 09:01 PM
4-Aminobiphenyl	ND		780	µg/Kg-dry	1	5/30/2013 09:01 PM
4-Bromophenyl phenyl ether	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
4-Chloro-3-methylphenol	ND		780	µg/Kg-dry	1	5/30/2013 09:01 PM
4-Chloroaniline	ND		780	µg/Kg-dry	1	5/30/2013 09:01 PM
4-Chlorophenyl phenyl ether	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
4-Nitroaniline	ND		780	µg/Kg-dry	1	5/30/2013 09:01 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	5/30/2013 09:01 PM
4-Nitroquinoline 1-oxide	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
5-Nitro-o-toluidine	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
7,12-Dimethylbenz(a)anthracene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Acenaphthene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S26-0406

Lab ID: 1305495-50

Collection Date: 5/22/2013 08:47 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Acetophenone	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Aniline	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Anthracene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Azobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Benzidine	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Benzo(a)anthracene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Benzo(a)pyrene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Benzo(b)fluoranthene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Benzo(g,h,i)perylene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Benzo(k)fluoranthene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Benzyl alcohol	ND		780	µg/Kg-dry	1	5/30/2013 09:01 PM
Bis(2-chloroethoxy)methane	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Bis(2-chloroethyl)ether	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Bis(2-chloroisopropyl)ether	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Bis(2-ethylhexyl)phthalate	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Butyl benzyl phthalate	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Carbazole	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Chrysene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Dibenzo(a,h)anthracene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Dibenzofuran	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Diethyl phthalate	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Dimethyl phthalate	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Di-n-butyl phthalate	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Di-n-octyl phthalate	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Dinoseb	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Diphenylamine	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Ethyl methanesulfonate	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Fluoranthene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Fluorene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Hexachlorobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Hexachlorobutadiene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Hexachlorocyclopentadiene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Hexachloroethane	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Indeno(1,2,3-cd)pyrene	ND		180	µg/Kg-dry	1	5/30/2013 09:01 PM
Isophorone	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Isosafrole	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Methapyrilene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Methyl methanesulfonate	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Naphthalene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S26-0406

Lab ID: 1305495-50

Collection Date: 5/22/2013 08:47 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
N-Nitrosodiethylamine	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
N-Nitrosodimethylamine	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
N-Nitroso-di-n-butylamine	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
N-Nitrosodi-n-propylamine	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
N-Nitrosomethylethylamine	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
N-Nitrosomorpholine	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
N-Nitrosopiperidine	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
N-Nitrosopyrrolidine	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
o-Toluidine	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
p-Dimethylaminoazobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Pentachlorobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Pentachloroethane	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Pentachloronitrobenzene	ND		780	µg/Kg-dry	1	5/30/2013 09:01 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	5/30/2013 09:01 PM
Phenacetin	ND		780	µg/Kg-dry	1	5/30/2013 09:01 PM
Phenanthrene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Phenol	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Pyrene	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Pyridine	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Safrole	ND		390	µg/Kg-dry	1	5/30/2013 09:01 PM
Surr: 2,4,6-Tribromophenol	90.3		18-115	%REC	1	5/30/2013 09:01 PM
Surr: 2-Fluorobiphenyl	78.2		30-116	%REC	1	5/30/2013 09:01 PM
Surr: 2-Fluorophenol	74.8		24-105	%REC	1	5/30/2013 09:01 PM
Surr: 4-Terphenyl-d14	72.6		40-127	%REC	1	5/30/2013 09:01 PM
Surr: Nitrobenzene-d5	94.5		32-106	%REC	1	5/30/2013 09:01 PM
Surr: Phenol-d5	77.6		39-123	%REC	1	5/30/2013 09:01 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/29/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
1,1,1-Trichloroethane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
1,1,2-Trichloroethane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
1,1-Dichloroethane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
1,1-Dichloroethene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
1,1-Dichloropropene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
1,2,3-Trichloropropane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S26-0406

Lab ID: 1305495-50

Collection Date: 5/22/2013 08:47 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
1,2-Dichlorobenzene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
1,2-Dichloroethane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
1,2-Dichloropropane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
1,3-Dichlorobenzene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
1,3-Dichloropropane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
1,4-Dichlorobenzene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
2,2-Dichloropropane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
2-Butanone	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
2-Chlorotoluene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
2-Hexanone	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
4-Chlorotoluene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
4-Methyl-2-pentanone	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Acetone	32		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Benzene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Bromobenzene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Bromochloromethane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Bromodichloromethane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Bromoform	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Bromomethane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Carbon disulfide	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Carbon tetrachloride	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Chlorobenzene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Chloroethane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Chloroform	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Chloromethane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
cis-1,2-Dichloroethene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
cis-1,3-Dichloropropene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Dibromochloromethane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Dibromomethane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Dichlorodifluoromethane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Ethylbenzene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Hexachlorobutadiene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Isopropylbenzene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
m,p-Xylene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Methyl tert-butyl ether	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Methylene chloride	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Naphthalene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
n-Butylbenzene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S26-0406

Lab ID: 1305495-50

Collection Date: 5/22/2013 08:47 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
o-Xylene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
p-Isopropyltoluene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
sec-Butylbenzene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Styrene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
tert-Butylbenzene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Tetrachloroethene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Toluene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
trans-1,2-Dichloroethene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
trans-1,3-Dichloropropene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Trichloroethene	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Trichlorofluoromethane	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Vinyl chloride	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
Xylenes, Total	ND		5.0	µg/Kg-dry	1	5/29/2013 07:35 PM
<i>Surr: 4-Bromofluorobenzene</i>	119		62.7-159	%REC	1	5/29/2013 07:35 PM
<i>Surr: Dibromofluoromethane</i>	110		88.2-133	%REC	1	5/29/2013 07:35 PM
<i>Surr: Toluene-d8</i>	101		81.5-110	%REC	1	5/29/2013 07:35 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S26-0608

Lab ID: 1305495-51

Collection Date: 5/22/2013 08:56 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 11:34 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 11:34 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 11:34 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 11:34 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 11:34 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 11:34 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 11:34 PM
Surr: Decachlorobiphenyl	96.0		22-156	%REC	1	5/30/2013 11:34 PM
Surr: Tetrachloro-m-xylene	91.6		34-145	%REC	1	5/30/2013 11:34 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S26-0811

Lab ID: 1305495-52

Collection Date: 5/22/2013 08:59 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 11:48 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/30/2013 11:48 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 11:48 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 11:48 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 11:48 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 11:48 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 11:48 PM
Surr: Decachlorobiphenyl	95.4		22-156	%REC	1	5/30/2013 11:48 PM
Surr: Tetrachloro-m-xylene	89.6		34-145	%REC	1	5/30/2013 11:48 PM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	16		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S28-0002

Lab ID: 1305495-53

Collection Date: 5/22/2013 08:05 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	5/31/2013 12:03 AM
Aroclor 1221	ND		0.25	mg/Kg-dry	1	5/31/2013 12:03 AM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	5/31/2013 12:03 AM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	5/31/2013 12:03 AM
Aroclor 1248	ND		0.13	mg/Kg-dry	1	5/31/2013 12:03 AM
Aroclor 1254	ND		0.13	mg/Kg-dry	1	5/31/2013 12:03 AM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	5/31/2013 12:03 AM
Surr: Decachlorobiphenyl	85.4		22-156	%REC	1	5/31/2013 12:03 AM
Surr: Tetrachloro-m-xylene	88.4		34-145	%REC	1	5/31/2013 12:03 AM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	21		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S28-0204

Lab ID: 1305495-54

Collection Date: 5/22/2013 08:06 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/31/2013 12:17 AM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/31/2013 12:17 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/31/2013 12:17 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/31/2013 12:17 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/31/2013 12:17 AM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/31/2013 12:17 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/31/2013 12:17 AM
Surr: Decachlorobiphenyl	93.6		22-156	%REC	1	5/31/2013 12:17 AM
Surr: Tetrachloro-m-xylene	94.6		34-145	%REC	1	5/31/2013 12:17 AM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S28-0406

Lab ID: 1305495-55

Collection Date: 5/22/2013 08:07 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/31/2013 12:31 AM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/31/2013 12:31 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/31/2013 12:31 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/31/2013 12:31 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/31/2013 12:31 AM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/31/2013 12:31 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/31/2013 12:31 AM
Surr: Decachlorobiphenyl	93.2		22-156	%REC	1	5/31/2013 12:31 AM
Surr: Tetrachloro-m-xylene	87.8		34-145	%REC	1	5/31/2013 12:31 AM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S28-0608

Lab ID: 1305495-56

Collection Date: 5/22/2013 08:16 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/31/2013 12:46 AM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/31/2013 12:46 AM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/31/2013 12:46 AM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/31/2013 12:46 AM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/31/2013 12:46 AM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/31/2013 12:46 AM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/31/2013 12:46 AM
Surr: Decachlorobiphenyl	93.4		22-156	%REC	1	5/31/2013 12:46 AM
Surr: Tetrachloro-m-xylene	87.4		34-145	%REC	1	5/31/2013 12:46 AM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S28-0810

Lab ID: 1305495-57

Collection Date: 5/22/2013 08:22 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/31/2013 01:00 AM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/31/2013 01:00 AM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/31/2013 01:00 AM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/31/2013 01:00 AM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/31/2013 01:00 AM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/31/2013 01:00 AM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/31/2013 01:00 AM
Surr: Decachlorobiphenyl	93.8		22-156	%REC	1	5/31/2013 01:00 AM
Surr: Tetrachloro-m-xylene	89.4		34-145	%REC	1	5/31/2013 01:00 AM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S29-0002

Lab ID: 1305495-58

Collection Date: 5/22/2013 11:55 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/31/2013 01:15 AM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/31/2013 01:15 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/31/2013 01:15 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/31/2013 01:15 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/31/2013 01:15 AM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/31/2013 01:15 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/31/2013 01:15 AM
Surr: Decachlorobiphenyl	95.0		22-156	%REC	1	5/31/2013 01:15 AM
Surr: Tetrachloro-m-xylene	95.4		34-145	%REC	1	5/31/2013 01:15 AM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	5/28/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.33	mg/Kg-dry	1	5/29/2013 04:24 PM
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Aluminum	3,300		580	mg/Kg-dry	1	5/25/2013 03:38 PM
Antimony	ND		3.5	mg/Kg-dry	1	5/25/2013 03:38 PM
Arsenic	ND		5.8	mg/Kg-dry	1	5/25/2013 03:38 PM
Barium	17		12	mg/Kg-dry	1	5/25/2013 03:38 PM
Beryllium	0.16		0.023	mg/Kg-dry	1	5/25/2013 03:38 PM
Cadmium	ND		1.2	mg/Kg-dry	1	5/25/2013 03:38 PM
Calcium	110,000		580	mg/Kg-dry	1	5/25/2013 03:38 PM
Chromium	5.8		2.3	mg/Kg-dry	1	5/25/2013 03:38 PM
Cobalt	ND		5.8	mg/Kg-dry	1	5/25/2013 03:38 PM
Copper	6.6		5.8	mg/Kg-dry	1	5/25/2013 03:38 PM
Iron	7,000		120	mg/Kg-dry	1	5/25/2013 03:38 PM
Lead	6.3		5.8	mg/Kg-dry	1	5/25/2013 03:38 PM
Magnesium	42,000		120	mg/Kg-dry	1	5/25/2013 03:38 PM
Manganese	190		5.8	mg/Kg-dry	1	5/25/2013 03:38 PM
Nickel	8.6		5.8	mg/Kg-dry	1	5/25/2013 03:38 PM
Potassium	ND		580	mg/Kg-dry	1	5/25/2013 03:38 PM
Selenium	ND		3.5	mg/Kg-dry	1	5/25/2013 03:38 PM
Silver	ND		1.2	mg/Kg-dry	1	5/25/2013 03:38 PM
Sodium	ND		580	mg/Kg-dry	1	5/25/2013 03:38 PM
Thallium	ND		3.5	mg/Kg-dry	1	5/25/2013 03:38 PM
Vanadium	9.1		5.8	mg/Kg-dry	1	5/25/2013 03:38 PM
Zinc	300		5.8	mg/Kg-dry	1	5/25/2013 03:38 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/4/2013	Analyst: Microb

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S29-0002

Lab ID: 1305495-58

Collection Date: 5/22/2013 11:55 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		2.2	µg/Kg	1	6/7/2013 09:17 AM
4,4'-DDE	ND		2.2	µg/Kg	1	6/7/2013 09:17 AM
4,4'-DDT	ND		2.2	µg/Kg	1	6/7/2013 09:17 AM
Aldrin	ND		2.2	µg/Kg	1	6/7/2013 09:17 AM
alpha-BHC	ND		2.2	µg/Kg	1	6/7/2013 09:17 AM
alpha-Chlordane	ND		2.2	µg/Kg	1	6/7/2013 09:17 AM
beta-BHC	ND		2.2	µg/Kg	1	6/7/2013 09:17 AM
delta-BHC	ND		2.2	µg/Kg	1	6/7/2013 09:17 AM
Dieldrin	ND		2.2	µg/Kg	1	6/7/2013 09:17 AM
Endosulfan I	ND		2.2	µg/Kg	1	6/7/2013 09:17 AM
Endosulfan II	ND		2.2	µg/Kg	1	6/7/2013 09:17 AM
Endosulfan sulfate	ND		2.2	µg/Kg	1	6/7/2013 09:17 AM
Endrin	ND		2.2	µg/Kg	1	6/7/2013 09:17 AM
Endrin aldehyde	ND		2.2	µg/Kg	1	6/7/2013 09:17 AM
Endrin ketone	ND		2.2	µg/Kg	1	6/7/2013 09:17 AM
gamma-BHC (Lindane)	ND		2.2	µg/Kg	1	6/7/2013 09:17 AM
gamma-Chlordane	ND		2.2	µg/Kg	1	6/7/2013 09:17 AM
Heptachlor	ND		2.2	µg/Kg	1	6/7/2013 09:17 AM
Heptachlor epoxide	ND		2.2	µg/Kg	1	6/7/2013 09:17 AM
Methoxychlor	ND		2.2	µg/Kg	1	6/7/2013 09:17 AM
Toxaphene	ND		45	µg/Kg	1	6/7/2013 09:17 AM
<i>Surr: Decachlorobiphenyl</i>	73.8		33-143	%REC	1	6/7/2013 09:17 AM
<i>Surr: Tetrachloro-m-xylene</i>	61.6		39-130	%REC	1	6/7/2013 09:17 AM

HERBICIDES

SW8151

Prep Date: 6/4/2013

Analyst: Microb

2,4,5-T	ND		0.0054	mg/Kg	1	6/7/2013 02:19 PM
2,4,5-TP (Silvex)	ND		0.0041	mg/Kg	1	6/7/2013 02:19 PM
2,4-D	ND		0.054	mg/Kg	1	6/7/2013 02:19 PM
2,4-DB	ND		0.054	mg/Kg	1	6/7/2013 02:19 PM
Dalapon	ND		0.14	mg/Kg	1	6/7/2013 02:19 PM
Dicamba	ND		0.0054	mg/Kg	1	6/7/2013 02:19 PM
Dichlorprop	ND		0.054	mg/Kg	1	6/7/2013 02:19 PM
Dinoseb	ND		0.027	mg/Kg	1	6/7/2013 02:19 PM
MCPA	ND		5.4	mg/Kg	1	6/7/2013 02:19 PM
MCPP	ND		5.4	mg/Kg	1	6/7/2013 02:19 PM
Pentachlorophenol	ND		0.0054	mg/Kg	1	6/7/2013 02:19 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	102		25-110	%REC	1	6/7/2013 02:19 PM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 5/28/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
1,2,4-Trichlorobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S29-0002

Lab ID: 1305495-58

Collection Date: 5/22/2013 11:55 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
1,3-Dichlorobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
1,3-Dinitrobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
1,4-Dichlorobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
1-Methylnaphthalene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
1-Naphthylamine	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
2,3,4,6-Tetrachlorophenol	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
2,4,5-Trichlorophenol	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
2,4,6-Trichlorophenol	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
2,4-Dichlorophenol	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
2,4-Dimethylphenol	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	5/30/2013 09:37 PM
2,4-Dinitrotoluene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
2,6-Dichlorophenol	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
2,6-Dinitrotoluene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
2-Acetylaminofluorene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
2-Chloronaphthalene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
2-Chlorophenol	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
2-Methylnaphthalene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
2-Methylphenol	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
2-Naphthylamine	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/30/2013 09:37 PM
2-Nitrophenol	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
2-Picoline	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
3&4-Methylphenol	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
3,3'-Dichlorobenzidine	ND		780	µg/Kg-dry	1	5/30/2013 09:37 PM
3-Methylcholanthrene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/30/2013 09:37 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	5/30/2013 09:37 PM
4-Aminobiphenyl	ND		780	µg/Kg-dry	1	5/30/2013 09:37 PM
4-Bromophenyl phenyl ether	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
4-Chloro-3-methylphenol	ND		780	µg/Kg-dry	1	5/30/2013 09:37 PM
4-Chloroaniline	ND		780	µg/Kg-dry	1	5/30/2013 09:37 PM
4-Chlorophenyl phenyl ether	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
4-Nitroaniline	ND		780	µg/Kg-dry	1	5/30/2013 09:37 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	5/30/2013 09:37 PM
4-Nitroquinoline 1-oxide	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
5-Nitro-o-toluidine	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
7,12-Dimethylbenz(a)anthracene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Acenaphthene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S29-0002

Lab ID: 1305495-58

Collection Date: 5/22/2013 11:55 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Acetophenone	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Aniline	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Anthracene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Azobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Benzidine	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Benzo(a)anthracene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Benzo(a)pyrene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Benzo(b)fluoranthene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Benzo(g,h,i)perylene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Benzo(k)fluoranthene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Benzyl alcohol	ND		780	µg/Kg-dry	1	5/30/2013 09:37 PM
Bis(2-chloroethoxy)methane	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Bis(2-chloroethyl)ether	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Bis(2-chloroisopropyl)ether	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Bis(2-ethylhexyl)phthalate	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Butyl benzyl phthalate	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Carbazole	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Chrysene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Dibenzo(a,h)anthracene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Dibenzofuran	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Diethyl phthalate	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Dimethyl phthalate	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Di-n-butyl phthalate	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Di-n-octyl phthalate	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Dinoseb	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Diphenylamine	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Ethyl methanesulfonate	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Fluoranthene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Fluorene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Hexachlorobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Hexachlorobutadiene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Hexachlorocyclopentadiene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Hexachloroethane	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Indeno(1,2,3-cd)pyrene	ND		180	µg/Kg-dry	1	5/30/2013 09:37 PM
Isophorone	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Isosafrole	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Methapyrilene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Methyl methanesulfonate	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Naphthalene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S29-0002

Lab ID: 1305495-58

Collection Date: 5/22/2013 11:55 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
N-Nitrosodiethylamine	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
N-Nitrosodimethylamine	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
N-Nitroso-di-n-butylamine	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
N-Nitrosodi-n-propylamine	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
N-Nitrosomethylethylamine	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
N-Nitrosomorpholine	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
N-Nitrosopiperidine	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
N-Nitrosopyrrolidine	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
o-Toluidine	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
p-Dimethylaminoazobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Pentachlorobenzene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Pentachloroethane	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Pentachloronitrobenzene	ND		780	µg/Kg-dry	1	5/30/2013 09:37 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	5/30/2013 09:37 PM
Phenacetin	ND		780	µg/Kg-dry	1	5/30/2013 09:37 PM
Phenanthrene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Phenol	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Pyrene	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Pyridine	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Safrole	ND		390	µg/Kg-dry	1	5/30/2013 09:37 PM
Surr: 2,4,6-Tribromophenol	86.5		18-115	%REC	1	5/30/2013 09:37 PM
Surr: 2-Fluorobiphenyl	79.0		30-116	%REC	1	5/30/2013 09:37 PM
Surr: 2-Fluorophenol	74.0		24-105	%REC	1	5/30/2013 09:37 PM
Surr: 4-Terphenyl-d14	71.8		40-127	%REC	1	5/30/2013 09:37 PM
Surr: Nitrobenzene-d5	96.5		32-106	%REC	1	5/30/2013 09:37 PM
Surr: Phenol-d5	78.7		39-123	%REC	1	5/30/2013 09:37 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/29/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
1,1,1-Trichloroethane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
1,1,2,2-Tetrachloroethane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
1,1,2-Trichloroethane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
1,1-Dichloroethane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
1,1-Dichloroethene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
1,1-Dichloropropene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
1,2,3-Trichlorobenzene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
1,2,3-Trichloropropane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
1,2,4-Trichlorobenzene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
1,2,4-Trimethylbenzene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
1,2-Dibromo-3-chloropropane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S29-0002

Lab ID: 1305495-58

Collection Date: 5/22/2013 11:55 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
1,2-Dichlorobenzene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
1,2-Dichloroethane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
1,2-Dichloropropane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
1,3,5-Trimethylbenzene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
1,3-Dichlorobenzene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
1,3-Dichloropropane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
1,4-Dichlorobenzene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
2,2-Dichloropropane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
2-Butanone	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
2-Chlorotoluene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
2-Hexanone	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
4-Chlorotoluene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
4-Methyl-2-pentanone	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Acetone	10		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Benzene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Bromobenzene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Bromochloromethane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Bromodichloromethane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Bromoform	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Bromomethane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Carbon disulfide	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Carbon tetrachloride	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Chlorobenzene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Chloroethane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Chloroform	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Chloromethane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
cis-1,2-Dichloroethene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
cis-1,3-Dichloropropene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Dibromochloromethane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Dibromomethane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Dichlorodifluoromethane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Ethylbenzene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Hexachlorobutadiene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Isopropylbenzene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
m,p-Xylene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Methyl tert-butyl ether	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Methylene chloride	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Naphthalene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
n-Butylbenzene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S29-0002

Lab ID: 1305495-58

Collection Date: 5/22/2013 11:55 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
o-Xylene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
p-Isopropyltoluene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
sec-Butylbenzene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Styrene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
tert-Butylbenzene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Tetrachloroethene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Toluene	5.1		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
trans-1,2-Dichloroethene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
trans-1,3-Dichloropropene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Trichloroethene	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Trichlorofluoromethane	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Vinyl chloride	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
Xylenes, Total	ND		4.7	µg/Kg-dry	1	5/30/2013 10:54 AM
<i>Surr: 4-Bromofluorobenzene</i>	115		62.7-159	%REC	1	5/30/2013 10:54 AM
<i>Surr: Dibromofluoromethane</i>	103		88.2-133	%REC	1	5/30/2013 10:54 AM
<i>Surr: Toluene-d8</i>	95.6		81.5-110	%REC	1	5/30/2013 10:54 AM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S29-0204

Lab ID: 1305495-59

Collection Date: 5/22/2013 11:59 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/31/2013 01:44 AM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/31/2013 01:44 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/31/2013 01:44 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/31/2013 01:44 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/31/2013 01:44 AM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/31/2013 01:44 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/31/2013 01:44 AM
Surr: Decachlorobiphenyl	95.0		22-156	%REC	1	5/31/2013 01:44 AM
Surr: Tetrachloro-m-xylene	88.8		34-145	%REC	1	5/31/2013 01:44 AM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	18		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S29-0405

Lab ID: 1305495-60

Collection Date: 5/22/2013 12:11 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/31/2013 02:56 AM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/31/2013 02:56 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/31/2013 02:56 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/31/2013 02:56 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/31/2013 02:56 AM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/31/2013 02:56 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/31/2013 02:56 AM
<i>Surr: Decachlorobiphenyl</i>	91.2		22-156	%REC	1	5/31/2013 02:56 AM
<i>Surr: Tetrachloro-m-xylene</i>	82.6		34-145	%REC	1	5/31/2013 02:56 AM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	17		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S29-0507

Lab ID: 1305495-61

Collection Date: 5/22/2013 12:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/31/2013 03:11 AM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/31/2013 03:11 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/31/2013 03:11 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/31/2013 03:11 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/31/2013 03:11 AM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/31/2013 03:11 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/31/2013 03:11 AM
Surr: Decachlorobiphenyl	93.2		22-156	%REC	1	5/31/2013 03:11 AM
Surr: Tetrachloro-m-xylene	82.2		34-145	%REC	1	5/31/2013 03:11 AM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	16		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S29-0709

Lab ID: 1305495-62

Collection Date: 5/22/2013 12:18 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	5/31/2013 03:25 AM
Aroclor 1221	ND		0.25	mg/Kg-dry	1	5/31/2013 03:25 AM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	5/31/2013 03:25 AM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	5/31/2013 03:25 AM
Aroclor 1248	ND		0.13	mg/Kg-dry	1	5/31/2013 03:25 AM
Aroclor 1254	ND		0.13	mg/Kg-dry	1	5/31/2013 03:25 AM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	5/31/2013 03:25 AM
Surr: Decachlorobiphenyl	87.8		22-156	%REC	1	5/31/2013 03:25 AM
Surr: Tetrachloro-m-xylene	80.2		34-145	%REC	1	5/31/2013 03:25 AM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	21		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305495

Sample ID: IA#1S29-0910

Lab ID: 1305495-63

Collection Date: 5/22/2013 12:23 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/31/2013 03:40 AM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/31/2013 03:40 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/31/2013 03:40 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/31/2013 03:40 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/31/2013 03:40 AM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/31/2013 03:40 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/31/2013 03:40 AM
Surr: Decachlorobiphenyl	89.8		22-156	%REC	1	5/31/2013 03:40 AM
Surr: Tetrachloro-m-xylene	76.6		34-145	%REC	1	5/31/2013 03:40 AM
MOISTURE			SM2540B		Prep Date: 5/28/2013	Analyst: CTS
Moisture	17		0.010	% of sample	1	5/28/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305495

Analytical Comments

Method	Type:	SampID	SeqNo	Analysis	Comments
Batch <u>R99704d</u>					
	Analysis	1305495-25C	624789	Herbicides	Surrogate out of range
Batch <u>R99367</u>					
	Analysis	1305495-31A	617523	Volatile Organic Compounds	Internal Standard was outside QA/QC limits. Sample was reanalyzed with similar results.

Client: AECOM

QC BATCH REPORT

Work Order: 1305495

Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

Batch ID: **16868**

Instrument ID **GC9**

Method: **SW8082**

MBLK		Sample ID MBLK-16868-16868			Units: mg/Kg		Analysis Date: 5/29/2013 01:00 PM			
Client ID:		Run ID: GC9_130529A			SeqNo: 617273		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
<i>Surr: Decachlorobiphenyl</i>	0.0948	0	0.1	0	94.8	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0962	0	0.1	0	96.2	34-145	0			

LCS		Sample ID LCS-16868-16868			Units: mg/Kg		Analysis Date: 5/29/2013 01:00 PM			
Client ID:		Run ID: GC9_130529A			SeqNo: 617274		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.423	0.10	2	0	121	50-133	0			
<i>Surr: Decachlorobiphenyl</i>	0.1012	0	0.1	0	101	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.1162	0	0.1	0	116	34-145	0			

MS		Sample ID MS 1305450-23A			Units: mg/Kg		Analysis Date: 5/29/2013 01:00 PM			
Client ID:		Run ID: GC9_130529A			SeqNo: 617275		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.199	0.099	1.984	0	111	31-150	0			
<i>Surr: Decachlorobiphenyl</i>	0.09187	0	0.09921	0	92.6	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.09167	0	0.09921	0	92.4	34-145	0			

MSD		Sample ID MSD 1305450-23A			Units: mg/Kg		Analysis Date: 5/29/2013 01:00 PM			
Client ID:		Run ID: GC9_130529A			SeqNo: 617276		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.298	0.10	1.992	0	115	31-150	0			
<i>Surr: Decachlorobiphenyl</i>	0.09681	0	0.0996	0	97.2	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.09801	0	0.0996	0	98.4	34-145	0			

The following samples were analyzed in this batch:

1305495-01A	1305495-02A	1305495-03A
1305495-04A	1305495-05B	1305495-06A
1305495-07A	1305495-08A	1305495-09A
1305495-10A	1305495-11A	1305495-12A
1305495-13A	1305495-14B	1305495-15A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16886** Instrument ID **GC9** Method: **SW8082**

MBLK		Sample ID MBLK-16886-16886			Units: mg/Kg		Analysis Date: 5/30/2013 08:19 AM			
Client ID:		Run ID: GC9_130530A			SeqNo: 617623		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
<i>Surr: Decachlorobiphenyl</i>	0.0922	0	0.1	0	92.2	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0926	0	0.1	0	92.6	34-145	0			

LCS		Sample ID LCS-16886-16886			Units: mg/Kg		Analysis Date: 5/30/2013 08:19 AM			
Client ID:		Run ID: GC9_130530A			SeqNo: 617624		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.165	0.10	2	0	108	50-133	0			
<i>Surr: Decachlorobiphenyl</i>	0.095	0	0.1	0	95	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0938	0	0.1	0	93.8	34-145	0			

MS		Sample ID 1305490-17AMS			Units: mg/Kg		Analysis Date: 5/30/2013 08:19 AM			
Client ID:		Run ID: GC9_130530A			SeqNo: 617639		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.302	0.10	2.004	0	115	31-150	0			
<i>Surr: Decachlorobiphenyl</i>	0.0986	0	0.1002	0	98.4	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.09118	0	0.1002	0	91	34-145	0			

MSD		Sample ID 1305490-17AMSD			Units: mg/Kg		Analysis Date: 5/30/2013 08:19 AM			
Client ID:		Run ID: GC9_130530A			SeqNo: 617640		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.196	0.099	1.988	0	110	31-150	2.302	4.7	53	
<i>Surr: Decachlorobiphenyl</i>	0.09105	0	0.0994	0	91.6	22-156	0.0986	7.96		
<i>Surr: Tetrachloro-m-xylene</i>	0.08807	0	0.0994	0	88.6	34-145	0.09118	3.47		

The following samples were analyzed in this batch: 1305495-16A 1305495-17A 1305495-18A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16893** Instrument ID **GC9** Method: **SW8082**

MBLK		Sample ID MBLK-16893-16893			Units: mg/Kg		Analysis Date: 5/29/2013			
Client ID:		Run ID: GC9_130529C			SeqNo: 618720		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
<i>Surr: Decachlorobiphenyl</i>	0.0876	0	0.1	0	87.6	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0876	0	0.1	0	87.6	34-145	0			

LCS		Sample ID LCS-16893-16893			Units: mg/Kg		Analysis Date: 5/29/2013			
Client ID:		Run ID: GC9_130529C			SeqNo: 618721		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.232	0.10	2	0	112	50-133	0			
<i>Surr: Decachlorobiphenyl</i>	0.0936	0	0.1	0	93.6	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.092	0	0.1	0	92	34-145	0			

MS		Sample ID 1305495-32AMS			Units: mg/Kg		Analysis Date: 5/30/2013 07:43 PM			
Client ID: IA#1S22-0002		Run ID: GC9_130529C			SeqNo: 618678		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.045	0.10	2	0	102	31-150	0			
<i>Surr: Decachlorobiphenyl</i>	0.0882	0	0.1	0	88.2	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.09	0	0.1	0	90	34-145	0			

MSD		Sample ID 1305495-32AMSD			Units: mg/Kg		Analysis Date: 5/30/2013 07:57 PM			
Client ID: IA#1S22-0002		Run ID: GC9_130529C			SeqNo: 618679		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.046	0.10	2	0	102	31-150	2.045	0.0587	53	
<i>Surr: Decachlorobiphenyl</i>	0.089	0	0.1	0	89	22-156	0.0882	0.903		
<i>Surr: Tetrachloro-m-xylene</i>	0.0906	0	0.1	0	90.6	34-145	0.09	0.664		

The following samples were analyzed in this batch:

1305495-19A	1305495-20A	1305495-21A
1305495-22A	1305495-23A	1305495-24A
1305495-25B	1305495-27A	1305495-28A
1305495-29A	1305495-30A	1305495-31B
1305495-32A	1305495-33A	1305495-34A
1305495-35A	1305495-36A	1305495-37A
1305495-38A	1305495-39A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16897** Instrument ID **GC9** Method: **SW8082**

MBLK		Sample ID MBLK-16897-16897			Units: mg/Kg		Analysis Date: 5/30/2013 08:11 PM			
Client ID:		Run ID: GC9_130529C			SeqNo: 618680		Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
<i>Surr: Decachlorobiphenyl</i>	0.0918	0	0.1	0	91.8	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0908	0	0.1	0	90.8	34-145	0			

LCS		Sample ID LCS-16897-16897			Units: mg/Kg		Analysis Date: 5/30/2013 08:26 PM			
Client ID:		Run ID: GC9_130529C			SeqNo: 618681		Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.232	0.10	2	0	112	50-133	0			
<i>Surr: Decachlorobiphenyl</i>	0.0942	0	0.1	0	94.2	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0898	0	0.1	0	89.8	34-145	0			

MS		Sample ID 1305495-40Ams			Units: mg/Kg		Analysis Date: 5/29/2013			
Client ID: IA#1S24-0608		Run ID: GC9_130529C			SeqNo: 618724		Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.221	0.10	1.996	0	111	31-150	0			
<i>Surr: Decachlorobiphenyl</i>	0.09741	0	0.0998	0	97.6	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.08563	0	0.0998	0	85.8	34-145	0			

MSD		Sample ID 1305495-40Amsd			Units: mg/Kg		Analysis Date: 5/29/2013			
Client ID: IA#1S24-0608		Run ID: GC9_130529C			SeqNo: 618725		Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.191	0.099	1.984	0	110	31-150	2.221	1.36	53	
<i>Surr: Decachlorobiphenyl</i>	0.09504	0	0.09921	0	95.8	22-156	0.09741	2.46		
<i>Surr: Tetrachloro-m-xylene</i>	0.08373	0	0.09921	0	84.4	34-145	0.08563	2.24		

The following samples were analyzed in this batch:

1305495-40A	1305495-41A	1305495-42A
1305495-43A	1305495-44A	1305495-45A
1305495-46A	1305495-47A	1305495-48A
1305495-49A	1305495-50B	1305495-51A
1305495-52A	1305495-53A	1305495-54A
1305495-55A	1305495-56A	1305495-57A
1305495-58B	1305495-59A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16908** Instrument ID **GC9** Method: **SW8082**

MBLK		Sample ID MBLK-16908-16908			Units: mg/Kg		Analysis Date: 5/31/2013 02:27 AM			
Client ID:		Run ID: GC9_130529C			SeqNo: 618700		Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
<i>Surr: Decachlorobiphenyl</i>	0.096	0	0.1	0	96	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.091	0	0.1	0	91	34-145	0			

LCS		Sample ID LCS-16908-16908			Units: mg/Kg		Analysis Date: 5/31/2013 02:42 AM			
Client ID:		Run ID: GC9_130529C			SeqNo: 618701		Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.313	0.10	2	0	116	50-133	0			
<i>Surr: Decachlorobiphenyl</i>	0.0988	0	0.1	0	98.8	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0914	0	0.1	0	91.4	34-145	0			

MS		Sample ID 1305544-01Amsd			Units: mg/Kg		Analysis Date: 6/3/2013 10:11 AM			
Client ID:		Run ID: GC9_130603A			SeqNo: 620825		Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.023	0.099	1.98	0	102	31-150	0			
<i>Surr: Decachlorobiphenyl</i>	0.1141	0	0.09901	0	115	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.07208	0	0.09901	0	72.8	34-145	0			

MSD		Sample ID 1305544-01Amsd			Units: mg/Kg		Analysis Date: 6/3/2013 10:11 AM			
Client ID:		Run ID: GC9_130603A			SeqNo: 620826		Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.244	0.10	2.008	0	112	31-150	2.023	10.4	53	
<i>Surr: Decachlorobiphenyl</i>	0.1353	0	0.1004	0	135	22-156	0.1141	17.1		
<i>Surr: Tetrachloro-m-xylene</i>	0.08394	0	0.1004	0	83.6	34-145	0.07208	15.2		

The following samples were analyzed in this batch:

1305495-60A	1305495-61A	1305495-62A
1305495-63A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16954** Instrument ID **GC9** Method: **SW8082**

MBLK		Sample ID MBLK-16954-16954			Units: mg/Kg		Analysis Date: 6/3/2013			
Client ID:		Run ID: GC9_130603B			SeqNo: 620927		Prep Date: 6/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
<i>Surr: Decachlorobiphenyl</i>	0.0876	0	0.1	0	87.6	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0872	0	0.1	0	87.2	34-145	0			

LCS		Sample ID LCS-16954-16954			Units: mg/Kg		Analysis Date: 6/3/2013			
Client ID:		Run ID: GC9_130603B			SeqNo: 620928		Prep Date: 6/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.025	0.10	2	0	101	50-133	0			
<i>Surr: Decachlorobiphenyl</i>	0.094	0	0.1	0	94	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0894	0	0.1	0	89.4	34-145	0			

MS		Sample ID 1305544-40A MS			Units: mg/Kg		Analysis Date: 6/3/2013			
Client ID:		Run ID: GC9_130603B			SeqNo: 620933		Prep Date: 6/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.879	0.10	2	0	93.9	31-150	0			
<i>Surr: Decachlorobiphenyl</i>	0.088	0	0.1	0	88	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0868	0	0.1	0	86.8	34-145	0			

MSD		Sample ID 1305544-40A MSD			Units: mg/Kg		Analysis Date: 6/3/2013			
Client ID:		Run ID: GC9_130603B			SeqNo: 620934		Prep Date: 6/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.853	0.10	2.012	0	92.1	31-150	1.879	1.41	53	
<i>Surr: Decachlorobiphenyl</i>	0.09457	0	0.1006	0	94	22-156	0.088	7.19		
<i>Surr: Tetrachloro-m-xylene</i>	0.08712	0	0.1006	0	86.6	34-145	0.0868	0.371		

The following samples were analyzed in this batch: 1305495-36A 1305495-37A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16799** Instrument ID **HG1** Method: **SW7471A**

MBLK		Sample ID MBLK-16799-16799			Units: mg/Kg		Analysis Date: 5/29/2013 03:53 PM			
Client ID:		Run ID: HG1_130529A			SeqNo: 617326		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.30								

LCS		Sample ID LCS-16799-16799			Units: mg/Kg		Analysis Date: 5/29/2013 03:49 PM			
Client ID:		Run ID: HG1_130529A			SeqNo: 617324		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	1.315	0.29	1.085	0	121	69-147	0			

LCSD		Sample ID LCSD-16799-16799			Units: mg/Kg		Analysis Date: 5/29/2013 03:51 PM			
Client ID:		Run ID: HG1_130529A			SeqNo: 617325		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	1.444	0.27	1.026	0	141	69-147	1.315	9.33	20	

MS		Sample ID 1305490-04B MS			Units: mg/Kg		Analysis Date: 5/29/2013 03:57 PM			
Client ID:		Run ID: HG1_130529A			SeqNo: 617328		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.8657	0.29	0.8133	0.04527	101	69-147	0			

MSD		Sample ID 1305490-04B MSD			Units: mg/Kg		Analysis Date: 5/29/2013 03:59 PM			
Client ID:		Run ID: HG1_130529A			SeqNo: 617329		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.8352	0.29	0.7921	0.04527	99.7	69-147	0.8657	3.59	20	

The following samples were analyzed in this batch:

1305495-05B	1305495-14B	1305495-25B
1305495-31B	1305495-50B	1305495-58B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16815** Instrument ID **ICP3** Method: **SW6010B**

MBLK		Sample ID mblk-16815-16815			Units: mg/Kg		Analysis Date: 5/25/2013 02:36 PM			
Client ID:		Run ID: ICP3_130524B			SeqNo: 615379		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500								
Antimony	ND	3.0								
Arsenic	ND	5.0								
Barium	ND	10								
Beryllium	ND	0.50								
Cadmium	ND	1.0								
Calcium	ND	500								
Chromium	ND	2.0								
Cobalt	ND	5.0								
Copper	ND	5.0								
Iron	ND	100								
Lead	ND	5.0								
Magnesium	ND	100								
Manganese	ND	5.0								
Nickel	ND	5.0								
Potassium	ND	500								
Selenium	ND	3.0								
Silver	ND	1.0								
Sodium	ND	500								
Thallium	ND	3.0								
Vanadium	ND	5.0								
Zinc	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16815** Instrument ID **ICP3** Method: **SW6010B**

Analyte	Result	PQL	SPK Val	Units: mg/Kg		Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
				SPK Ref Value	%REC					
Aluminum	ND	500	100	0	105	80-120	0			
Antimony	98.05	3.0	100	0	98	80-120	0			
Arsenic	101	5.0	100	0	101	80-120	0			
Barium	103.7	10	100	0	104	80-120	0			
Beryllium	100.3	0.50	100	0	100	80-120	0			
Cadmium	102.2	1.0	100	0	102	80-120	0			
Calcium	ND	500	100	0	100	80-120	0			
Chromium	99.65	2.0	100	0	99.6	80-120	0			
Cobalt	98.97	5.0	100	0	99	80-120	0			
Copper	99.83	5.0	100	0	99.8	80-120	0			
Iron	ND	100	100	0	99.7	80-120	0			
Lead	103.9	5.0	100	0	104	80-120	0			
Magnesium	100.5	100	100	0	100	80-120	0			
Manganese	99.27	5.0	100	0	99.3	80-120	0			
Nickel	99.09	5.0	100	0	99.1	80-120	0			
Potassium	1005	500	1000	0	100	80-120	0			
Selenium	101.8	3.0	100	0	102	80-120	0			
Silver	102.1	1.0	100	0	102	80-120	0			
Sodium	ND	500	100	0	105	80-120	0			
Thallium	99.14	3.0	100	0	99.1	80-120	0			
Vanadium	100.3	5.0	100	0	100	80-120	0			
Zinc	99.99	5.0	100	0	100	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16815** Instrument ID **ICP3** Method: **SW6010B**

LCSD	Sample ID	Units: mg/Kg				Analysis Date: 5/25/2013 02:48 PM				
Client ID:	ICSD-16815-16815	Run ID: ICP3_130524B		SeqNo: 615381		Prep Date: 5/24/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500	100	0	96.7	80-120	104.6	0	20	
Antimony	99.46	3.0	100	0	99.5	80-120	98.05	1.43	20	
Arsenic	102.1	5.0	100	0	102	80-120	101	1.08	20	
Barium	105.3	10	100	0	105	80-120	103.7	1.53	20	
Beryllium	100.9	0.50	100	0	101	80-120	100.3	0.596	20	
Cadmium	103.2	1.0	100	0	103	80-120	102.2	0.974	20	
Calcium	ND	500	100	0	98.4	80-120	100.2	0	20	
Chromium	101.2	2.0	100	0	101	80-120	99.65	1.54	20	
Cobalt	100.2	5.0	100	0	100	80-120	98.97	1.24	20	
Copper	100.5	5.0	100	0	100	80-120	99.83	0.669	20	
Iron	100.2	100	100	0	100	80-120	99.66	0.54	20	
Lead	104.5	5.0	100	0	104	80-120	103.9	0.576	20	
Magnesium	100.2	100	100	0	100	80-120	100.5	0.299	20	
Manganese	99.89	5.0	100	0	99.9	80-120	99.27	0.623	20	
Nickel	100.6	5.0	100	0	101	80-120	99.09	1.51	20	
Potassium	1022	500	1000	0	102	80-120	1005	1.68	20	
Selenium	103.3	3.0	100	0	103	80-120	101.8	1.46	20	
Silver	103.8	1.0	100	0	104	80-120	102.1	1.65	20	
Sodium	ND	500	100	0	103	80-120	105	0	20	
Thallium	100.5	3.0	100	0	100	80-120	99.14	1.36	20	
Vanadium	99.99	5.0	100	0	100	80-120	100.3	0.31	20	
Zinc	101.2	5.0	100	0	101	80-120	99.99	1.2	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16815** Instrument ID **ICP3** Method: **SW6010B**

MS		Sample ID 1305495-58b ms			Units: mg/Kg		Analysis Date: 5/25/2013 03:44 PM			
Client ID: IA#1S29-0002		Run ID: ICP3_130524B			SeqNo: 615388		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	4569	490	98.66	2784	1810	80-120	0			SO
Antimony	89.27	3.0	98.66	0.8453	89.6	75-125	0			
Arsenic	104.4	4.9	98.66	4.299	101	75-125	0			
Barium	109.7	9.9	98.66	14.45	96.6	75-125	0			
Beryllium	96.45	0.49	98.66	0.1387	97.6	75-125	0			
Cadmium	95.7	0.99	98.66	0.1427	96.9	75-125	0			
Calcium	66040	490	98.66	92530	-26900	75-125	0			SO
Chromium	93.25	2.0	98.66	4.935	89.5	75-125	0			
Cobalt	86.62	4.9	98.66	2.307	85.5	75-125	0			
Copper	102.6	4.9	98.66	5.627	98.3	75-125	0			
Iron	9016	99	98.66	5944	3110	75-125	0			SO
Lead	92.54	4.9	98.66	5.332	88.4	75-125	0			
Magnesium	18550	99	98.66	35220	-16900	75-125	0			SO
Manganese	292.3	4.9	98.66	156.9	137	75-125	0			S
Nickel	93.86	4.9	98.66	7.262	87.8	75-125	0			
Potassium	1486	490	98.66	255.8	125	75-125	0			
Selenium	97.54	3.0	98.66	0.6389	98.2	75-125	0			
Silver	97.11	0.99	98.66	-0.2831	98.7	75-125	0			
Sodium	ND	490	98.66	67.96	106	75-125	0			
Thallium	79.97	3.0	98.66	0.1662	80.9	75-125	0			
Vanadium	109.8	4.9	98.66	7.697	103	75-125	0			
Zinc	318.5	4.9	98.66	257.1	62.2	75-125	0			S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16815 Instrument ID ICP3 Method: SW6010B

MSD		Sample ID 1305495-58b msd			Units: mg/Kg		Analysis Date: 5/25/2013 03:51 PM			
Client ID: IA#1S29-0002		Run ID: ICP3_130524B			SeqNo: 615389		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	3981	490	98.83	2784	1210	75-125	4569	13.8	20	SO
Antimony	89.44	3.0	98.83	0.8453	89.6	75-125	89.27	0.2	20	
Arsenic	101.5	4.9	98.83	4.299	98.4	75-125	104.4	2.8	20	
Barium	104.5	9.9	98.83	14.45	91.1	75-125	109.7	4.89	20	
Beryllium	95.72	0.49	98.83	0.1387	96.7	75-125	96.45	0.757	20	
Cadmium	94.59	0.99	98.83	0.1427	95.6	75-125	95.7	1.16	20	
Calcium	81350	490	98.83	92530	-11300	75-125	66040	20.8	20	SRO
Chromium	91.57	2.0	98.83	4.935	87.7	75-125	93.25	1.82	20	
Cobalt	83.53	4.9	98.83	2.307	82.2	75-125	86.62	3.63	20	
Copper	101.2	4.9	98.83	5.627	96.7	75-125	102.6	1.37	20	
Iron	6991	99	98.83	5944	1060	75-125	9016	25.3	20	SRO
Lead	89.54	4.9	98.83	5.332	85.2	75-125	92.54	3.29	20	
Magnesium	26360	99	98.83	35220	-8960	75-125	18550	34.8	20	SRO
Manganese	249.3	4.9	98.83	156.9	93.4	75-125	292.3	15.9	20	
Nickel	89.62	4.9	98.83	7.262	83.3	75-125	93.86	4.62	20	
Potassium	1476	490	988.3	255.8	123	75-125	1486	0.689	20	
Selenium	96.01	3.0	98.83	0.6389	96.5	75-125	97.54	1.59	20	
Silver	96.19	0.99	98.83	-0.2831	97.6	75-125	97.11	0.946	20	
Sodium	ND	490	98.83	67.96	112	75-125	172.2	0	20	
Thallium	77.9	3.0	98.83	0.1662	78.7	75-125	79.97	2.62	20	
Vanadium	108.4	4.9	98.83	7.697	102	75-125	109.8	1.27	20	
Zinc	324.3	4.9	98.83	257.1	68	75-125	318.5	1.81	20	S

The following samples were analyzed in this batch:

1305495-05b	1305495-14b	1305495-25b
1305495-31b	1305495-50b	1305495-58b

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99704c** Instrument ID **SUB** Method: **SW8081A**

MBLK	Sample ID	Blank-R99704c		Units: µg/Kg		Analysis Date: 6/7/2013 04:11 AM				
Client ID:	Run ID:	SUB_130607E		SeqNo: 624710		Prep Date: 6/4/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	1.6								
4,4'-DDE	ND	1.6								
4,4'-DDT	ND	1.6								
Aldrin	ND	1.6								
alpha-BHC	ND	1.6								
alpha-Chlordane	ND	1.6								
beta-BHC	ND	1.6								
delta-BHC	ND	1.6								
Dieldrin	ND	1.6								
Endosulfan I	ND	1.6								
Endosulfan II	ND	1.6								
Endosulfan sulfate	ND	1.6								
Endrin	ND	1.6								
Endrin aldehyde	ND	1.6								
Endrin ketone	ND	1.6								
gamma-BHC (Lindane)	ND	1.6								
gamma-Chlordane	ND	1.6								
Heptachlor	ND	1.6								
Heptachlor epoxide	ND	1.6								
Methoxychlor	ND	1.6								
Toxaphene	ND	33								
Surr: Decachlorobiphenyl	87.2	0	100	0	87.2	33-143	0			
Surr: Tetrachloro-m-xylene	64.3	0	100	0	64.3	39-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99704c** Instrument ID **SUB** Method: **SW8081A**

LCS		Sample ID LCS-R99704c			Units: µg/Kg		Analysis Date: 6/7/2013 05:35 AM			
Client ID:		Run ID: SUB_130607E			SeqNo: 624711		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	11.9	0	16.7	0	71.3	60-110	0			
4,4'-DDE	11.9	0	16.7	0	71.3	55-110	0			
4,4'-DDT	13.2	0	16.7	0	79	60-115	0			
Aldrin	10.4	0	16.7	0	62.3	50-100	0			
alpha-BHC	10.7	0	16.7	0	64.1	50-100	0			
alpha-Chlordane	12.6	0	16.7	0	75.4	55-105	0			
beta-BHC	11.9	0	16.7	0	71.3	50-100	0			
delta-BHC	11.8	0	16.7	0	70.7	50-110	0			
Dieldrin	11.9	0	16.7	0	71.3	60-110	0			
Endosulfan I	12.8	0	16.7	0	76.6	40-100	0			
Endosulfan II	12.5	0	16.7	0	74.9	40-100	0			
Endosulfan sulfate	12.8	0	16.7	0	76.6	45-115	0			
Endrin	11.9	0	16.7	0	71.3	55-100	0			
Endrin aldehyde	11.2	0	16.7	0	67.1	45-110	0			
Endrin ketone	11.7	0	16.7	0	70.1	55-115	0			
gamma-BHC (Lindane)	10.8	0	16.7	0	64.7	50-100	0			
gamma-Chlordane	12.7	0	16.7	0	76	50-110	0			
Heptachlor	12.8	0	16.7	0	76.6	50-105	0			
Heptachlor epoxide	12.9	0	16.7	0	77.2	55-105	0			
Methoxychlor	14.1	0	16.7	0	84.4	60-125	0			
<i>Surr: Decachlorobiphenyl</i>	91.8	0	100	0	91.8	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	65	0	100	0	65	39-130	0			

LCS		Sample ID LCS-R99704c			Units: µg/Kg		Analysis Date: 6/7/2013 05:35 AM			
Client ID:		Run ID: SUB_130607E			SeqNo: 624721		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Toxaphene	58.7	0	66.7	0	88	25-138	0			
<i>Surr: Decachlorobiphenyl</i>	94.7	0	100	0	94.7	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	62.4	0	100	0	62.4	39-140	0			

The following samples were analyzed in this batch:

1305495-05C	1305495-14C	1305495-25C
1305495-31C	1305495-50C	1305495-58C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99704d** Instrument ID **SUB** Method: **SW8151**

MBLK		Sample ID BLANK-R99704d			Units: µg/Kg		Analysis Date: 6/7/2013 10:52 AM			
Client ID:		Run ID: SUB_130607E			SeqNo: 624785		Prep Date: 6/4/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	ND	4.0								
2,4,5-TP (Silvex)	ND	3.0								
2,4-D	ND	40								
2,4-DB	ND	40								
Dalapon	ND	100								
Dicamba	ND	4.0								
Dichlorprop	ND	40								
Dinoseb	ND	20								
MCPA	ND	4,000								
MCPP	ND	4,000								
Pentachlorophenol	ND	4.0								
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	93.7	0	100	0	93.7	25-110	0			

LCS		Sample ID LCS-R99704d			Units: µg/Kg		Analysis Date: 6/7/2013 11:18 AM			
Client ID:		Run ID: SUB_130607E			SeqNo: 624786		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	8.59	4.0	10	0	85.9	25-120	0			
2,4,5-TP (Silvex)	8.45	3.0	10	0	84.5	30-125	0			
2,4-D	66.8	40	100	0	66.8	15-120	0			
2,4-DB	610	40	100	0	610	20-125	0			S
Dalapon	126	100	250	0	50.4	10-105	0			
Dicamba	8.72	4.0	10	0	87.2	45-150	0			
Dichlorprop	91.2	40	100	0	91.2	20-130	0			
Dinoseb	47.3	20	50	0	94.6	25-125	0			
MCPA	7140	4,000	10000	0	71.4	10-120	0			
MCPP	7280	4,000	10000	0	72.8	10-130	0			
Pentachlorophenol	7.91	4.0	10	0	79.1	30-110	0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	108	0	100	0	108	25-110	0			

The following samples were analyzed in this batch:

1305495-05C	1305495-14C	1305495-25C
1305495-31C	1305495-50C	1305495-58C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID SVMS2 Method: SW8270C

MBLK	Sample ID	MBLK-16817-16817		Units: µg/Kg		Analysis Date: 5/24/2013 07:10 PM				
Client ID:	Run ID:	SVMS2_130524A		SeqNo: 615805		Prep Date: 5/24/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	330								
1,2,4-Trichlorobenzene	ND	330								
1,2-Dichlorobenzene	ND	330								
1,3-Dichlorobenzene	ND	330								
1,3-Dinitrobenzene	ND	330								
1,4-Dichlorobenzene	ND	330								
1-Methylnaphthalene	ND	330								
1-Naphthylamine	ND	330								
2,3,4,6-Tetrachlorophenol	ND	330								
2,4,5-Trichlorophenol	ND	330								
2,4,6-Trichlorophenol	ND	330								
2,4-Dichlorophenol	ND	330								
2,4-Dimethylphenol	ND	330								
2,4-Dinitrophenol	ND	1,600								
2,4-Dinitrotoluene	ND	330								
2,6-Dichlorophenol	ND	330								
2,6-Dinitrotoluene	ND	330								
2-Acetylamino fluorene	ND	330								
2-Chloronaphthalene	ND	330								
2-Chlorophenol	ND	330								
2-Methylnaphthalene	ND	330								
2-Methylphenol	ND	330								
2-Naphthylamine	ND	330								
2-Nitroaniline	ND	1,600								
2-Nitrophenol	ND	330								
2-Picoline	ND	330								
3&4-Methylphenol	ND	330								
3,3'-Dichlorobenzidine	ND	660								
3-Methylcholanthrene	ND	330								
3-Nitroaniline	ND	1,600								
4,6-Dinitro-2-methylphenol	ND	1,600								
4-Aminobiphenyl	ND	660								
4-Bromophenyl phenyl ether	ND	330								
4-Chloro-3-methylphenol	ND	660								
4-Chloroaniline	ND	660								
4-Chlorophenyl phenyl ether	ND	330								
4-Nitroaniline	ND	660								
4-Nitrophenol	ND	1,600								
4-Nitroquinoline 1-oxide	ND	330								
5-Nitro-o-toluidine	ND	330								
7,12-Dimethylbenz(a)anthracene	ND	330								
Acenaphthene	ND	330								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305495
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817	Instrument ID SVMS2	Method: SW8270C
Acenaphthylene	ND	330
Acetophenone	ND	330
Aniline	ND	330
Anthracene	ND	330
Azobenzene	ND	330
Benzidine	ND	330
Benzo(a)anthracene	ND	330
Benzo(a)pyrene	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(g,h,i)perylene	ND	330
Benzo(k)fluoranthene	ND	330
Benzyl alcohol	ND	660
Bis(2-chloroethoxy)methane	ND	330
Bis(2-chloroethyl)ether	ND	330
Bis(2-chloroisopropyl)ether	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Butyl benzyl phthalate	ND	330
Carbazole	ND	330
Chrysene	ND	330
Dibenzo(a,h)anthracene	ND	330
Dibenzofuran	ND	330
Diethyl phthalate	ND	330
Dimethyl phthalate	ND	330
Di-n-butyl phthalate	ND	330
Di-n-octyl phthalate	ND	330
Dinoseb	ND	330
Diphenylamine	ND	330
Ethyl methanesulfonate	ND	330
Fluoranthene	ND	330
Fluorene	ND	330
Hexachlorobenzene	ND	330
Hexachlorobutadiene	ND	330
Hexachlorocyclopentadiene	ND	330
Hexachloroethane	ND	330
Indeno(1,2,3-cd)pyrene	ND	150
Isophorone	ND	330
Isosafrole	ND	330
Methapyrilene	ND	330
Methyl methanesulfonate	ND	330
Naphthalene	ND	330
Nitrobenzene	ND	330
N-Nitrosodiethylamine	ND	330
N-Nitrosodimethylamine	ND	330
N-Nitroso-di-n-butylamine	ND	330
N-Nitrosodi-n-propylamine	ND	330
N-Nitrosomethylethylamine	ND	330
N-Nitrosomorpholine	ND	330
N-Nitrosopiperidine	ND	330

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305495
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817	Instrument ID SVMS2	Method: SW8270C					
N-Nitrosopyrrolidine	ND	330					
o-Toluidine	ND	330					
p-Dimethylaminoazobenzene	ND	330					
Pentachlorobenzene	ND	330					
Pentachloroethane	ND	330					
Pentachloronitrobenzene	ND	660					
Pentachlorophenol	ND	1,600					
Phenacetin	ND	660					
Phenanthrene	ND	330					
Phenol	ND	330					
Pyrene	ND	330					
Pyridine	ND	330					
Safrole	ND	330					
<i>Surr: 2,4,6-Tribromophenol</i>	2682	0	3330	0	80.6	18-115	0
<i>Surr: 2-Fluorobiphenyl</i>	1329	0	1670	0	79.6	30-116	0
<i>Surr: 2-Fluorophenol</i>	1905	0	3330	0	57.2	24-105	0
<i>Surr: 4-Terphenyl-d14</i>	1212	0	1670	0	72.6	40-127	0
<i>Surr: Nitrobenzene-d5</i>	1542	0	1670	0	92.3	32-106	0
<i>Surr: Phenol-d5</i>	2333	0	3330	0	70.1	39-123	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID SVMS2 Method: SW8270C

LCS		Sample ID LCS-16817-16817			Units: µg/Kg		Analysis Date: 5/24/2013 07:45 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615806		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1214	330	1670	0	72.7	48.1-106	0			
1,4-Dichlorobenzene	1167	330	1670	0	69.9	55.5-89.4	0			
2,4-Dinitrotoluene	1486	330	1670	0	89	58.8-123	0			
2-Chlorophenol	1140	330	1670	0	68.3	34.7-116	0			
4-Chloro-3-methylphenol	1449	660	1670	0	86.8	32.1-109	0			
4-Nitrophenol	ND	1,600	1670	0	74.9	36.2-146	0			
Acenaphthene	1263	330	1670	0	75.6	67.8-104	0			
Acenaphthylene	1222	330	1670	0	73.2	65.6-103	0			
Anthracene	1317	330	1670	0	78.8	71.1-107	0			
Benzo(a)anthracene	1365	330	1670	0	81.7	60.4-118	0			
Benzo(a)pyrene	1536	330	1670	0	92	73.7-110	0			
Benzo(b)fluoranthene	1475	330	1670	0	88.3	59.9-94.8	0			
Benzo(g,h,i)perylene	1355	330	1670	0	81.2	40-129	0			
Benzo(k)fluoranthene	1412	330	1670	0	84.5	75.7-130	0			
Carbazole	1699	330	1670	0	102	69.6-107	0			
Chrysene	1429	330	1670	0	85.6	62.3-115	0			
Dibenzo(a,h)anthracene	1282	330	1670	0	76.8	59.2-121	0			
Fluoranthene	1436	330	1670	0	86	63-120	0			
Fluorene	1265	330	1670	0	75.7	69-106	0			
Indeno(1,2,3-cd)pyrene	1284	150	1670	0	76.9	59-110	0			
Naphthalene	1205	330	1670	0	72.2	49.1-103	0			
N-Nitrosodi-n-propylamine	1352	330	1670	0	80.9	25.3-127	0			
Pentachlorophenol	1621	1,600	1670	0	97.1	22.1-105	0			
Phenanthrene	1342	330	1670	0	80.3	70-112	0			
Phenol	1147	330	1670	0	68.7	36.9-97.8	0			
Pyrene	1344	330	1670	0	80.5	55-117	0			
Surr: 2,4,6-Tribromophenol	2259	0	3330	0	67.8	18-115	0			
Surr: 2-Fluorobiphenyl	1156	0	1670	0	69.2	30-116	0			
Surr: 2-Fluorophenol	1944	0	3330	0	58.4	24-105	0			
Surr: 4-Terphenyl-d14	1130	0	1670	0	67.7	40-127	0			
Surr: Nitrobenzene-d5	1177	0	1670	0	70.5	32-106	0			
Surr: Phenol-d5	2183	0	3330	0	65.6	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID SVMS2 Method: SW8270C

MS		Sample ID ms 1305471-02b			Units: µg/Kg		Analysis Date: 5/24/2013 08:19 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615807		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1209	330	1669	0	72.4	50.6-92	0			
1,4-Dichlorobenzene	1132	330	1669	0	67.8	40.1-84.3	0			
2,4-Dinitrotoluene	1406	330	1669	0	84.2	50.3-127	0			
2-Chlorophenol	1107	330	1669	0	66.3	33.3-109	0			
4-Chloro-3-methylphenol	1449	660	1669	0	86.8	35.8-116	0			
4-Nitrophenol	ND	1,600	1669	0	92.5	38.7-135	0			
Acenaphthene	1237	330	1669	0	74.1	54.1-109	0			
Acenaphthylene	1214	330	1669	0	72.7	55.3-118	0			
Anthracene	1280	330	1669	0	76.7	51-106	0			
Benzo(a)anthracene	1287	330	1669	0	77.1	31.6-128	0			
Benzo(a)pyrene	1465	330	1669	0	87.8	66.1-109	0			
Benzo(b)fluoranthene	1431	330	1669	0	85.7	56.8-87.8	0			
Benzo(g,h,i)perylene	1411	330	1669	0	84.5	37.7-113	0			
Benzo(k)fluoranthene	1412	330	1669	0	84.6	57-119	0			
Carbazole	1749	330	1669	0	105	28.5-114	0			
Chrysene	1329	330	1669	0	79.6	46.3-104	0			
Dibenzo(a,h)anthracene	1271	330	1669	0	76.1	48.8-123	0			
Fluoranthene	1354	330	1669	0	81.1	52-120	0			
Fluorene	1261	330	1669	0	75.5	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1252	150	1669	0	75	56.1-118	0			
Naphthalene	1199	330	1669	0	71.8	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1359	330	1669	0	81.4	46.5-116	0			
Pentachlorophenol	1685	1,600	1669	0	101	28.9-156	0			
Phenanthrene	1284	330	1669	0	76.9	52-105	0			
Phenol	1109	330	1669	0	66.4	25.9-90.3	0			
Pyrene	1295	330	1669	0	77.6	51-111	0			
Surr: 2,4,6-Tribromophenol	2319	0	3329	0	69.7	18-115	0			
Surr: 2-Fluorobiphenyl	1191	0	1669	0	71.3	30-116	0			
Surr: 2-Fluorophenol	2114	0	3329	0	63.5	24-105	0			
Surr: 4-Terphenyl-d14	1103	0	1669	0	66.1	40-127	0			
Surr: Nitrobenzene-d5	1232	0	1669	0	73.8	32-106	0			
Surr: Phenol-d5	2272	0	3329	0	68.2	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID SVMS2 Method: SW8270C

MSD		Sample ID msd 1305471-02b			Units: µg/Kg		Analysis Date: 5/24/2013 08:54 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615808		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1218	330	1670	0	72.9	50.6-92	0			
1,4-Dichlorobenzene	1158	330	1670	0	69.4	40.1-84.3	0			
2,4-Dinitrotoluene	1406	330	1670	0	84.2	50.3-127	0			
2-Chlorophenol	1131	330	1670	0	67.7	33.3-109	0			
4-Chloro-3-methylphenol	1468	660	1670	0	87.9	35.8-116	0			
4-Nitrophenol	ND	1,600	1670	0	74.5	38.7-135	0			
Acenaphthene	1248	330	1670	0	74.7	54.1-109	0			
Acenaphthylene	1227	330	1670	0	73.5	55.3-118	0			
Anthracene	1272	330	1670	0	76.2	51-106	0			
Benzo(a)anthracene	1206	330	1670	0	72.2	31.6-128	0			
Benzo(a)pyrene	1456	330	1670	0	87.2	66.1-109	0			
Benzo(b)fluoranthene	1309	330	1670	0	78.4	56.8-87.8	0			
Benzo(g,h,i)perylene	1466	330	1670	0	87.8	37.7-113	0			
Benzo(k)fluoranthene	1385	330	1670	0	83	57-119	0			
Carbazole	1770	330	1670	0	106	28.5-114	0			
Chrysene	1232	330	1670	0	73.8	46.3-104	0			
Dibenzo(a,h)anthracene	1342	330	1670	0	80.4	48.8-123	0			
Fluoranthene	1328	330	1670	0	79.5	52-120	0			
Fluorene	1249	330	1670	0	74.8	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1348	150	1670	0	80.7	56.1-118	0			
Naphthalene	1212	330	1670	0	72.6	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1377	330	1670	0	82.5	46.5-116	0			
Pentachlorophenol	1607	1,600	1670	0	96.2	28.9-156	0			
Phenanthrene	1287	330	1670	0	77.1	52-105	0			
Phenol	1114	330	1670	0	66.7	25.9-90.3	0			
Pyrene	1244	330	1670	0	74.5	51-111	0			
Surr: 2,4,6-Tribromophenol	2249	0	3330	0	67.5	18-115	0			
Surr: 2-Fluorobiphenyl	1197	0	1670	0	71.7	30-116	0			
Surr: 2-Fluorophenol	2154	0	3330	0	64.7	24-105	0			
Surr: 4-Terphenyl-d14	1077	0	1670	0	64.5	40-127	0			
Surr: Nitrobenzene-d5	1250	0	1670	0	74.9	32-106	0			
Surr: Phenol-d5	2298	0	3330	0	69	39-123	0			

The following samples were analyzed in this batch:

1305495-05b	1305495-14b	1305495-25b
1305495-31b		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16859** Instrument ID **SVMS2** Method: **SW8270C**

MBLK	Sample ID	MBLK-16859-16859		Units: µg/Kg		Analysis Date: 5/29/2013 05:32 PM				
Client ID:	Run ID:	SVMS2_130529A		SeqNo: 617817		Prep Date: 5/28/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	330								
1,2,4-Trichlorobenzene	ND	330								
1,2-Dichlorobenzene	ND	330								
1,3-Dichlorobenzene	ND	330								
1,3-Dinitrobenzene	ND	330								
1,4-Dichlorobenzene	ND	330								
1-Methylnaphthalene	ND	330								
1-Naphthylamine	ND	330								
2,3,4,6-Tetrachlorophenol	ND	330								
2,4,5-Trichlorophenol	ND	330								
2,4,6-Trichlorophenol	ND	330								
2,4-Dichlorophenol	ND	330								
2,4-Dimethylphenol	ND	330								
2,4-Dinitrophenol	ND	1,600								
2,4-Dinitrotoluene	ND	330								
2,6-Dichlorophenol	ND	330								
2,6-Dinitrotoluene	ND	330								
2-Acetylamino fluorene	ND	330								
2-Chloronaphthalene	ND	330								
2-Chlorophenol	ND	330								
2-Methylnaphthalene	ND	330								
2-Methylphenol	ND	330								
2-Naphthylamine	ND	330								
2-Nitroaniline	ND	1,600								
2-Nitrophenol	ND	330								
2-Picoline	ND	330								
3&4-Methylphenol	ND	330								
3,3'-Dichlorobenzidine	ND	660								
3-Methylcholanthrene	ND	330								
3-Nitroaniline	ND	1,600								
4,6-Dinitro-2-methylphenol	ND	1,600								
4-Aminobiphenyl	ND	660								
4-Bromophenyl phenyl ether	ND	330								
4-Chloro-3-methylphenol	ND	660								
4-Chloroaniline	ND	660								
4-Chlorophenyl phenyl ether	ND	330								
4-Nitroaniline	ND	660								
4-Nitrophenol	ND	1,600								
4-Nitroquinoline 1-oxide	ND	330								
5-Nitro-o-toluidine	ND	330								
7,12-Dimethylbenz(a)anthracene	ND	330								
Acenaphthene	ND	330								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305495
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16859	Instrument ID SVMS2	Method: SW8270C
Acenaphthylene	ND	330
Acetophenone	ND	330
Aniline	ND	330
Anthracene	ND	330
Azobenzene	ND	330
Benzidine	ND	330
Benzo(a)anthracene	ND	330
Benzo(a)pyrene	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(g,h,i)perylene	ND	330
Benzo(k)fluoranthene	ND	330
Benzyl alcohol	ND	660
Bis(2-chloroethoxy)methane	ND	330
Bis(2-chloroethyl)ether	ND	330
Bis(2-chloroisopropyl)ether	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Butyl benzyl phthalate	ND	330
Carbazole	ND	330
Chrysene	ND	330
Dibenzo(a,h)anthracene	ND	330
Dibenzofuran	ND	330
Diethyl phthalate	ND	330
Dimethyl phthalate	ND	330
Di-n-butyl phthalate	ND	330
Di-n-octyl phthalate	ND	330
Dinoseb	ND	330
Diphenylamine	ND	330
Ethyl methanesulfonate	ND	330
Fluoranthene	ND	330
Fluorene	ND	330
Hexachlorobenzene	ND	330
Hexachlorobutadiene	ND	330
Hexachlorocyclopentadiene	ND	330
Hexachloroethane	ND	330
Indeno(1,2,3-cd)pyrene	ND	150
Isophorone	ND	330
Isosafrole	ND	330
Methapyrilene	ND	330
Methyl methanesulfonate	ND	330
Naphthalene	ND	330
Nitrobenzene	ND	330
N-Nitrosodiethylamine	ND	330
N-Nitrosodimethylamine	ND	330
N-Nitroso-di-n-butylamine	ND	330
N-Nitrosodi-n-propylamine	ND	330
N-Nitrosomethylethylamine	ND	330
N-Nitrosomorpholine	ND	330
N-Nitrosopiperidine	ND	330

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305495
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16859	Instrument ID SVMS2	Method: SW8270C						
N-Nitrosopyrrolidine	ND	330						
o-Toluidine	ND	330						
p-Dimethylaminoazobenzene	ND	330						
Pentachlorobenzene	ND	330						
Pentachloroethane	ND	330						
Pentachloronitrobenzene	ND	660						
Pentachlorophenol	ND	1,600						
Phenacetin	ND	660						
Phenanthrene	ND	330						
Phenol	ND	330						
Pyrene	ND	330						
Pyridine	ND	330						
Safrole	ND	330						
<i>Surr: 2,4,6-Tribromophenol</i>	2706	0	3330	0	81.3	18-115	0	
<i>Surr: 2-Fluorobiphenyl</i>	1350	0	1670	0	80.8	30-116	0	
<i>Surr: 2-Fluorophenol</i>	2337	0	3330	0	70.2	24-105	0	
<i>Surr: 4-Terphenyl-d14</i>	1303	0	1670	0	78	40-127	0	
<i>Surr: Nitrobenzene-d5</i>	1636	0	1670	0	97.9	32-106	0	
<i>Surr: Phenol-d5</i>	2594	0	3330	0	77.9	39-123	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16859** Instrument ID **SVMS2** Method: **SW8270C**

LCS		Sample ID LCS-16859-16859			Units: µg/Kg		Analysis Date: 5/29/2013 06:08 PM			
Client ID:		Run ID: SVMS2_130529A			SeqNo: 617818		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1267	330	1670	0	75.9	48.1-106	0			
1,4-Dichlorobenzene	1165	330	1670	0	69.7	55.5-89.4	0			
2,4-Dinitrotoluene	1472	330	1670	0	88.2	58.8-123	0			
2-Chlorophenol	1496	330	1670	0	89.6	34.7-116	0			
4-Chloro-3-methylphenol	1537	660	1670	0	92.1	32.1-109	0			
4-Nitrophenol	1666	1,600	1670	0	99.8	36.2-146	0			
Acenaphthene	1275	330	1670	0	76.4	67.8-104	0			
Acenaphthylene	1256	330	1670	0	75.2	65.6-103	0			
Anthracene	1314	330	1670	0	78.7	71.1-107	0			
Benzo(a)anthracene	1250	330	1670	0	74.8	60.4-118	0			
Benzo(a)pyrene	1447	330	1670	0	86.6	73.7-110	0			
Benzo(b)fluoranthene	1354	330	1670	0	81.1	59.9-94.8	0			
Benzo(g,h,i)perylene	1472	330	1670	0	88.2	40-129	0			
Benzo(k)fluoranthene	1436	330	1670	0	86	75.7-130	0			
Carbazole	1767	330	1670	0	106	69.6-107	0			
Chrysene	1228	330	1670	0	73.5	62.3-115	0			
Dibenzo(a,h)anthracene	1503	330	1670	0	90	59.2-121	0			
Fluoranthene	1388	330	1670	0	83.1	63-120	0			
Fluorene	1257	330	1670	0	75.2	69-106	0			
Indeno(1,2,3-cd)pyrene	1531	150	1670	0	91.7	59-110	0			
Naphthalene	1268	330	1670	0	75.9	49.1-103	0			
N-Nitrosodi-n-propylamine	1465	330	1670	0	87.7	25.3-127	0			
Pentachlorophenol	ND	1,600	1670	0	91	22.1-105	0			
Phenanthrene	1319	330	1670	0	79	70-112	0			
Phenol	1206	330	1670	0	72.2	36.9-97.8	0			
Pyrene	1292	330	1670	0	77.3	55-117	0			
<i>Surr: 2,4,6-Tribromophenol</i>	2426	0	3330	0	72.9	18-115	0			
<i>Surr: 2-Fluorobiphenyl</i>	1276	0	1670	0	76.4	30-116	0			
<i>Surr: 2-Fluorophenol</i>	2801	0	3330	0	84.1	24-105	0			
<i>Surr: 4-Terphenyl-d14</i>	1150	0	1670	0	68.9	40-127	0			
<i>Surr: Nitrobenzene-d5</i>	1355	0	1670	0	81.2	32-106	0			
<i>Surr: Phenol-d5</i>	2547	0	3330	0	76.5	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16859 Instrument ID SVMS2 Method: SW8270C

MS		Sample ID 1305495-50bms			Units: µg/Kg		Analysis Date: 5/29/2013 06:43 PM			
Client ID: IA#1S26-0406		Run ID: SVMS2_130529A			SeqNo: 617819		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1182	330	1667	0	70.9	50.6-92	0			
1,4-Dichlorobenzene	1102	330	1667	0	66.1	40.1-84.3	0			
2,4-Dinitrotoluene	1421	330	1667	0	85.2	50.3-127	0			
2-Chlorophenol	1392	330	1667	0	83.5	33.3-109	0			
4-Chloro-3-methylphenol	1530	660	1667	0	91.8	35.8-116	0			
4-Nitrophenol	1641	1,600	1667	0	98.4	38.7-135	0			
Acenaphthene	1203	330	1667	0	72.1	54.1-109	0			
Acenaphthylene	1185	330	1667	0	71.1	55.3-118	0			
Anthracene	1230	330	1667	0	73.8	51-106	0			
Benzo(a)anthracene	1236	330	1667	0	74.1	31.6-128	0			
Benzo(a)pyrene	1332	330	1667	0	79.9	66.1-109	0			
Benzo(b)fluoranthene	1237	330	1667	0	74.2	56.8-87.8	0			
Benzo(g,h,i)perylene	1253	330	1667	0	75.2	37.7-113	0			
Benzo(k)fluoranthene	1411	330	1667	0	84.7	57-119	0			
Carbazole	1700	330	1667	0	102	28.5-114	0			
Chrysene	1269	330	1667	0	76.1	46.3-104	0			
Dibenzo(a,h)anthracene	1256	330	1667	0	75.3	48.8-123	0			
Fluoranthene	1305	330	1667	0	78.3	52-120	0			
Fluorene	1219	330	1667	0	73.1	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1249	150	1667	0	74.9	56.1-118	0			
Naphthalene	1178	330	1667	0	70.6	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1377	330	1667	0	82.6	46.5-116	0			
Pentachlorophenol	ND	1,600	1667	0	93.1	28.9-156	0			
Phenanthrene	1247	330	1667	0	74.8	52-105	0			
Phenol	1135	330	1667	0	68.1	25.9-90.3	0			
Pyrene	1242	330	1667	0	74.5	51-111	0			
Surr: 2,4,6-Tribromophenol	2280	0	3324	0	68.6	18-115	0			
Surr: 2-Fluorobiphenyl	1176	0	1667	0	70.6	30-116	0			
Surr: 2-Fluorophenol	2557	0	3324	0	76.9	24-105	0			
Surr: 4-Terphenyl-d14	1066	0	1667	0	64	40-127	0			
Surr: Nitrobenzene-d5	1283	0	1667	0	76.9	32-106	0			
Surr: Phenol-d5	2383	0	3324	0	71.7	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16859 Instrument ID SVMS2 Method: SW8270C

MSD		Sample ID 1305495-50bmsd			Units: µg/Kg		Analysis Date: 5/29/2013 07:21 PM			
Client ID: IA#1S26-0406		Run ID: SVMS2_130529A			SeqNo: 617820		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1148	330	1665	0	69	50.6-92	1182	2.9	18	
1,4-Dichlorobenzene	1061	330	1665	0	63.8	40.1-84.3	1102	3.73	20	
2,4-Dinitrotoluene	1330	330	1665	0	79.9	50.3-127	1421	6.59	20	
2-Chlorophenol	1372	330	1665	0	82.4	33.3-109	1392	1.46	20	
4-Chloro-3-methylphenol	1415	660	1665	0	85	35.8-116	1530	7.77	20	
4-Nitrophenol	ND	1,600	1665	0	86	38.7-135	1641	0	20	
Acenaphthene	1161	330	1665	0	69.7	54.1-109	1203	3.57	20	
Acenaphthylene	1149	330	1665	0	69	55.3-118	1185	3.12	20	
Anthracene	1173	330	1665	0	70.5	51-106	1230	4.67	20	
Benzo(a)anthracene	1071	330	1665	0	64.3	31.6-128	1236	14.3	20	
Benzo(a)pyrene	1257	330	1665	0	75.5	66.1-109	1332	5.78	20	
Benzo(b)fluoranthene	1221	330	1665	0	73.4	56.8-87.8	1237	1.3	20	
Benzo(g,h,i)perylene	1196	330	1665	0	71.8	37.7-113	1253	4.7	20	
Benzo(k)fluoranthene	1298	330	1665	0	77.9	57-119	1411	8.38	20	
Carbazole	1668	330	1665	0	100	28.5-114	1700	1.89	20	
Chrysene	1084	330	1665	0	65.1	46.3-104	1269	15.7	21	
Dibenzo(a,h)anthracene	1216	330	1665	0	73.1	48.8-123	1256	3.17	20	
Fluoranthene	1259	330	1665	0	75.6	52-120	1305	3.56	20	
Fluorene	1150	330	1665	0	69	54.8-113	1219	5.83	20	
Indeno(1,2,3-cd)pyrene	1216	150	1665	0	73	56.1-118	1249	2.64	20	
Naphthalene	1140	330	1665	0	68.4	51.1-99.3	1178	3.29	20	
N-Nitrosodi-n-propylamine	1331	330	1665	0	80	46.5-116	1377	3.4	17	
Pentachlorophenol	ND	1,600	1665	0	90.8	28.9-156	1552	0	20	
Phenanthrene	1188	330	1665	0	71.4	52-105	1247	4.83	20	
Phenol	1103	330	1665	0	66.2	25.9-90.3	1135	2.87	17	
Pyrene	1206	330	1665	0	72.4	51-111	1242	2.93	20	
Surr: 2,4,6-Tribromophenol	2241	0	3320	0	67.5	18-115	2280	1.69		
Surr: 2-Fluorobiphenyl	1150	0	1665	0	69.1	30-116	1176	2.25		
Surr: 2-Fluorophenol	2469	0	3320	0	74.4	24-105	2557	3.53		
Surr: 4-Terphenyl-d14	1062	0	1665	0	63.8	40-127	1066	0.383		
Surr: Nitrobenzene-d5	1223	0	1665	0	73.4	32-106	1283	4.78		
Surr: Phenol-d5	2279	0	3320	0	68.6	39-123	2383	4.44		

The following samples were analyzed in this batch:

1305495-50b	1305495-58b
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99362** Instrument ID **VMS1** Method: **SW8260**

MBLK	Sample ID	MBLK-R99362		Units: µg/L		Analysis Date: 5/29/2013 08:48 AM				
Client ID:	Run ID:	VMS1_130529A		SeqNo: 616653		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305495
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99362	Instrument ID VMS1	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	2.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	49.51	0	50	0	99	61-131	0
<i>Surr: Dibromofluoromethane</i>	51.03	0	50	0	102	87-126	0
<i>Surr: Toluene-d8</i>	51.14	0	50	0	102	84-111	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99362** Instrument ID **VMS1** Method: **SW8260**

LCS		Sample ID LCS-R99362			Units: $\mu\text{g/L}$		Analysis Date: 5/29/2013 08:18 AM			
Client ID:		Run ID: VMS1_130529A			SeqNo: 616652		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	58.19	5.0	50	0	116	48.4-140	0			
1,1-Dichloroethene	56.99	5.0	50	0	114	45.5-150	0			
1,2-Dichloroethane	56.09	5.0	50	0	112	46.5-141	0			
1,3-Dichlorobenzene	50.72	5.0	50	0	101	42.5-133	0			
1,4-Dichlorobenzene	50.1	5.0	50	0	100	38.9-136	0			
Benzene	54.85	5.0	50	0	110	50.7-134	0			
Carbon tetrachloride	62.79	5.0	50	0	126	45.5-143	0			
Chlorobenzene	52.87	5.0	50	0	106	45-133	0			
Chloroform	55.24	5.0	50	0	110	52.4-136	0			
cis-1,2-Dichloroethene	53.02	5.0	50	0	106	49.7-138	0			
Ethylbenzene	54.18	5.0	50	0	108	37.8-145	0			
m,p-Xylene	113.2	5.0	100	0	113	25.1-163	0			
Styrene	59.66	5.0	50	0	119	26.3-172	0			
Tetrachloroethene	50.99	5.0	50	0	102	37.3-139	0			
Toluene	56.93	5.0	50	0	114	44-135	0			
Trichloroethene	55.14	5.0	50	0	110	46.9-134	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.15	0	50	0	96.3	61-131	0			
<i>Surr: Dibromofluoromethane</i>	50.73	0	50	0	101	87-126	0			
<i>Surr: Toluene-d8</i>	52.3	0	50	0	105	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99362** Instrument ID **VMS1** Method: **SW8260**

MS		Sample ID 1305506-01A MS			Units: µg/L		Analysis Date: 5/29/2013 11:18 AM			
Client ID:		Run ID: VMS1_130529A			SeqNo: 616658		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.91	5.0	50	0	97.8	47.4-141	0			
1,1-Dichloroethene	49.09	5.0	50	0	98.2	56.3-140	0			
1,2-Dichloroethane	48.56	5.0	50	0	97.1	50.1-139	0			
1,3-Dichlorobenzene	45.92	5.0	50	0	91.8	53-127	0			
1,4-Dichlorobenzene	44.43	5.0	50	0	88.9	53.4-129	0			
Benzene	47.5	5.0	50	0	95	52.8-136	0			
Carbon tetrachloride	51.26	5.0	50	0	103	48.1-141	0			
Chlorobenzene	45.53	5.0	50	0	91.1	52.4-132	0			
Chloroform	48.85	5.0	50	0	97.7	52.9-136	0			
cis-1,2-Dichloroethene	47.24	5.0	50	0	94.5	63.5-128	0			
Ethylbenzene	47.11	5.0	50	0	94.2	46.5-146	0			
m,p-Xylene	98.54	5.0	100	0	98.5	38.2-167	0			
Styrene	49.82	5.0	50	0	99.6	20.9-184	0			
Tetrachloroethene	44.3	5.0	50	0	88.6	55.2-134	0			
Toluene	50.5	5.0	50	0	101	45.1-138	0			
Trichloroethene	47.32	5.0	50	0	94.6	52.8-133	0			
Surr: 4-Bromofluorobenzene	49.71	0	50	0	99.4	61-131	0			
Surr: Dibromofluoromethane	50.93	0	50	0	102	87-126	0			
Surr: Toluene-d8	52.45	0	50	0	105	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99362** Instrument ID **VMS1** Method: **SW8260**

MSD		Sample ID 1305506-01A MSD			Units: $\mu\text{g/L}$		Analysis Date: 5/29/2013 11:48 AM			
Client ID:		Run ID: VMS1_130529A			SeqNo: 616659		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	59.05	5.0	50	0	118	47.4-141	48.91	18.8	20	
1,1-Dichloroethene	58.16	5.0	50	0	116	56.3-140	49.09	16.9	20	
1,2-Dichloroethane	58.09	5.0	50	0	116	50.1-139	48.56	17.9	20	
1,3-Dichlorobenzene	51.66	5.0	50	0	103	53-127	45.92	11.8	20	
1,4-Dichlorobenzene	50.1	5.0	50	0	100	53.4-129	44.43	12	20	
Benzene	56.32	5.0	50	0	113	52.8-136	47.5	17	20	
Carbon tetrachloride	61.13	5.0	50	0	122	48.1-141	51.26	17.6	20	
Chlorobenzene	53.14	5.0	50	0	106	52.4-132	45.53	15.4	20	
Chloroform	58.48	5.0	50	0	117	52.9-136	48.85	17.9	20	
cis-1,2-Dichloroethene	56.32	5.0	50	0	113	63.5-128	47.24	17.5	20	
Ethylbenzene	53.39	5.0	50	0	107	46.5-146	47.11	12.5	20	
m,p-Xylene	111.8	5.0	100	0	112	38.2-167	98.54	12.6	20	
Styrene	58.74	5.0	50	0	117	20.9-184	49.82	16.4	20	
Tetrachloroethene	49.88	5.0	50	0	99.8	55.2-134	44.3	11.8	20	
Toluene	58.65	5.0	50	0	117	45.1-138	50.5	14.9	20	
Trichloroethene	55.22	5.0	50	0	110	52.8-133	47.32	15.4	20	
<i>Surr: 4-Bromofluorobenzene</i>	50.05	0	50	0	100	61-131	49.71	0.682		
<i>Surr: Dibromofluoromethane</i>	51.63	0	50	0	103	87-126	50.93	1.37		
<i>Surr: Toluene-d8</i>	52.12	0	50	0	104	84-111	52.45	0.631		

The following samples were analyzed in this batch:

1305495-26A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99367** Instrument ID **VMS2** Method: **SW8260**

MBLK	Sample ID	MBLK-R99367		Units: µg/Kg		Analysis Date: 5/29/2013 10:42 AM				
Client ID:	Run ID:	VMS2_130529A		SeqNo: 617059		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305495
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99367	Instrument ID VMS2	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	5.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	47.81	0	50	0	95.6	62.7-159	0
<i>Surr: Dibromofluoromethane</i>	48.52	0	50	0	97	88.2-133	0
<i>Surr: Toluene-d8</i>	48.78	0	50	0	97.6	81.5-110	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99367** Instrument ID **VMS2** Method: **SW8260**

LCS		Sample ID LCS-R99367			Units: µg/Kg		Analysis Date: 5/29/2013 11:13 AM			
Client ID:		Run ID: VMS2_130529A			SeqNo: 617060		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	42.38	5.0	50	0	84.8	70-132		0		
1,1-Dichloroethene	40.21	5.0	50	0	80.4	61.2-140		0		
1,2-Dichloroethane	44.79	5.0	50	0	89.6	67.3-139		0		
1,3-Dichlorobenzene	38.41	5.0	50	0	76.8	67.5-126		0		
1,4-Dichlorobenzene	39	5.0	50	0	78	69.5-124		0		
Benzene	40.46	5.0	50	0	80.9	67.2-135		0		
Carbon tetrachloride	43.5	5.0	50	0	87	68.6-138		0		
Chlorobenzene	39.35	5.0	50	0	78.7	66.4-133		0		
Chloroform	41.62	5.0	50	0	83.2	68.2-127		0		
cis-1,2-Dichloroethene	41.96	5.0	50	0	83.9	62.1-135		0		
Ethylbenzene	40.34	5.0	50	0	80.7	67.8-132		0		
m,p-Xylene	81.01	5.0	100	0	81	66.4-132		0		
Styrene	39.87	5.0	50	0	79.7	67.6-134		0		
Tetrachloroethene	40.35	5.0	50	0	80.7	70.3-144		0		
Toluene	40.2	5.0	50	0	80.4	67.8-130		0		
Trichloroethene	42.12	5.0	50	0	84.2	68.5-136		0		
Surr: 4-Bromofluorobenzene	48.56	0	50	0	97.1	62.7-159		0		
Surr: Dibromofluoromethane	50.86	0	50	0	102	88.2-133		0		
Surr: Toluene-d8	49.56	0	50	0	99.1	81.5-110		0		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99367** Instrument ID **VMS2** Method: **SW8260**

MS		Sample ID 1305557-02A MS			Units: µg/Kg		Analysis Date: 5/29/2013 11:44 AM			
Client ID:		Run ID: VMS2_130529A			SeqNo: 617061		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.06	5.0	50	0	98.1	66.9-140	0			
1,1-Dichloroethene	47.66	5.0	50	0	95.3	65.9-143	0			
1,2-Dichloroethane	53.62	5.0	50	0	107	73-135	0			
1,3-Dichlorobenzene	45.14	5.0	50	0	90.3	61.2-125	0			
1,4-Dichlorobenzene	44.75	5.0	50	0	89.5	62.3-123	0			
Benzene	47.03	5.0	50	0	94.1	35.8-162	0			
Carbon tetrachloride	51.55	5.0	50	0	103	71.4-130	0			
Chlorobenzene	45.51	5.0	50	0	91	65.6-137	0			
Chloroform	48.28	5.0	50	0	96.6	69.6-128	0			
cis-1,2-Dichloroethene	47.87	5.0	50	0	95.7	68.8-130	0			
Ethylbenzene	46.56	5.0	50	0	93.1	68.6-124	0			
m,p-Xylene	92.1	5.0	100	0	92.1	64.5-125	0			
Styrene	47.27	5.0	50	0	94.5	65.9-125	0			
Tetrachloroethene	46.84	5.0	50	0	93.7	71.6-135	0			
Toluene	46.58	5.0	50	0	93.2	67.7-135	0			
Trichloroethene	49.13	5.0	50	0	98.3	70.9-139	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.98	0	50	0	98	62.7-159	0			
<i>Surr: Dibromofluoromethane</i>	51.11	0	50	0	102	88.2-133	0			
<i>Surr: Toluene-d8</i>	50.53	0	50	0	101	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99367** Instrument ID **VMS2** Method: **SW8260**

MSD		Sample ID 1305557-02A MSD			Units: µg/Kg		Analysis Date: 5/29/2013 12:15 PM			
Client ID:		Run ID: VMS2_130529A			SeqNo: 617062		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	41.14	5.0	50	0	82.3	66.9-140	49.06	17.6	20	
1,1-Dichloroethene	42.16	5.0	50	0	84.3	65.9-143	47.66	12.2	20	
1,2-Dichloroethane	42.98	5.0	50	0	86	73-135	53.62	22	20	R
1,3-Dichlorobenzene	38.5	5.0	50	0	77	61.2-125	45.14	15.9	21	
1,4-Dichlorobenzene	37.25	5.0	50	0	74.5	62.3-123	44.75	18.3	22.5	
Benzene	38.5	5.0	50	0	77	35.8-162	47.03	19.9	23.6	
Carbon tetrachloride	42.53	5.0	50	0	85.1	71.4-130	51.55	19.2	22.9	
Chlorobenzene	38.75	5.0	50	0	77.5	65.6-137	45.51	16	20	
Chloroform	41.91	5.0	50	0	83.8	69.6-128	48.28	14.1	23.1	
cis-1,2-Dichloroethene	42.21	5.0	50	0	84.4	68.8-130	47.87	12.6	23.7	
Ethylbenzene	39.92	5.0	50	0	79.8	68.6-124	46.56	15.4	24.9	
m,p-Xylene	78.76	5.0	100	0	78.8	64.5-125	92.1	15.6	25.1	
Styrene	38.09	5.0	50	0	76.2	65.9-125	47.27	21.5	22.8	
Tetrachloroethene	39.95	5.0	50	0	79.9	71.6-135	46.84	15.9	24.7	
Toluene	38.22	5.0	50	0	76.4	67.7-135	46.58	19.7	20	
Trichloroethene	40.73	5.0	50	0	81.5	70.9-139	49.13	18.7	20	
Surr: 4-Bromofluorobenzene	48.71	0	50	0	97.4	62.7-159	48.98	0.553		
Surr: Dibromofluoromethane	52.55	0	50	0	105	88.2-133	51.11	2.78		
Surr: Toluene-d8	48.35	0	50	0	96.7	81.5-110	50.53	4.41		

The following samples were analyzed in this batch:

1305495-05A	1305495-14A	1305495-25A
1305495-31A	1305495-50A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99417** Instrument ID **VMS2** Method: **SW8260**

MBLK	Sample ID	MBLK-R99417		Units: µg/Kg		Analysis Date: 5/30/2013 08:50 AM				
Client ID:	Run ID:	VMS2_130530A		SeqNo: 617899		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99417	Instrument ID VMS2	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	5.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	45.45	0	50	0	90.9	62.7-159	0
<i>Surr: Dibromofluoromethane</i>	47.91	0	50	0	95.8	88.2-133	0
<i>Surr: Toluene-d8</i>	45.87	0	50	0	91.7	81.5-110	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99417** Instrument ID **VMS2** Method: **SW8260**

LCS		Sample ID LCS-R99417			Units: µg/Kg		Analysis Date: 5/30/2013 08:18 AM			
Client ID:		Run ID: VMS2_130530A			SeqNo: 617898		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.63	5.0	50	0	103	70-132		0		
1,1-Dichloroethene	45.56	5.0	50	0	91.1	61.2-140		0		
1,2-Dichloroethane	54.07	5.0	50	0	108	67.3-139		0		
1,3-Dichlorobenzene	53.64	5.0	50	0	107	67.5-126		0		
1,4-Dichlorobenzene	53.04	5.0	50	0	106	69.5-124		0		
Benzene	49.48	5.0	50	0	99	67.2-135		0		
Carbon tetrachloride	54.43	5.0	50	0	109	68.6-138		0		
Chlorobenzene	51.93	5.0	50	0	104	66.4-133		0		
Chloroform	46.66	5.0	50	0	93.3	68.2-127		0		
cis-1,2-Dichloroethene	48.25	5.0	50	0	96.5	62.1-135		0		
Ethylbenzene	51.1	5.0	50	0	102	67.8-132		0		
m,p-Xylene	102.2	5.0	100	0	102	66.4-132		0		
Styrene	52.35	5.0	50	0	105	67.6-134		0		
Tetrachloroethene	60.91	5.0	50	0	122	70.3-144		0		
Toluene	48.7	5.0	50	0	97.4	67.8-130		0		
Trichloroethene	52.97	5.0	50	0	106	68.5-136		0		
Surr: 4-Bromofluorobenzene	48.12	0	50	0	96.2	62.7-159		0		
Surr: Dibromofluoromethane	47.42	0	50	0	94.8	88.2-133		0		
Surr: Toluene-d8	47.74	0	50	0	95.5	81.5-110		0		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99417** Instrument ID **VMS2** Method: **SW8260**

MS		Sample ID 1305557-25A MS			Units: µg/Kg		Analysis Date: 5/30/2013 09:21 AM			
Client ID:		Run ID: VMS2_130530A			SeqNo: 617900		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.74	5.0	50	0	99.5	66.9-140	0			
1,1-Dichloroethene	46.31	5.0	50	0	92.6	65.9-143	0			
1,2-Dichloroethane	50.84	5.0	50	0	102	73-135	0			
1,3-Dichlorobenzene	52.4	5.0	50	0	105	61.2-125	0			
1,4-Dichlorobenzene	51.87	5.0	50	0	104	62.3-123	0			
Benzene	47.84	5.0	50	0	95.7	35.8-162	0			
Carbon tetrachloride	51.7	5.0	50	0	103	71.4-130	0			
Chlorobenzene	50.41	5.0	50	0	101	65.6-137	0			
Chloroform	47.4	5.0	50	0	94.8	69.6-128	0			
cis-1,2-Dichloroethene	46.75	5.0	50	0	93.5	68.8-130	0			
Ethylbenzene	50.56	5.0	50	0	101	68.6-124	0			
m,p-Xylene	101.9	5.0	100	0	102	64.5-125	0			
Styrene	51.55	5.0	50	0	103	65.9-125	0			
Tetrachloroethene	55.85	5.0	50	0	112	71.6-135	0			
Toluene	46.69	5.0	50	0	93.4	67.7-135	0			
Trichloroethene	50.41	5.0	50	0	101	70.9-139	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.14	0	50	0	96.3	62.7-159	0			
<i>Surr: Dibromofluoromethane</i>	47.68	0	50	0	95.4	88.2-133	0			
<i>Surr: Toluene-d8</i>	46.83	0	50	0	93.7	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305495
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99417** Instrument ID **VMS2** Method: **SW8260**

MSD		Sample ID 1305557-25A MSD			Units: µg/Kg		Analysis Date: 5/30/2013 09:52 AM			
Client ID:		Run ID: VMS2_130530A			SeqNo: 617901		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	44.41	5.0	50	0	88.8	66.9-140	49.74	11.3	20	
1,1-Dichloroethene	41.02	5.0	50	0	82	65.9-143	46.31	12.1	20	
1,2-Dichloroethane	48.67	5.0	50	0	97.3	73-135	50.84	4.36	20	
1,3-Dichlorobenzene	44.98	5.0	50	0	90	61.2-125	52.4	15.2	21	
1,4-Dichlorobenzene	45.75	5.0	50	0	91.5	62.3-123	51.87	12.5	22.5	
Benzene	42.2	5.0	50	0	84.4	35.8-162	47.84	12.5	23.6	
Carbon tetrachloride	45.51	5.0	50	0	91	71.4-130	51.7	12.7	22.9	
Chlorobenzene	44.91	5.0	50	0	89.8	65.6-137	50.41	11.5	20	
Chloroform	41.48	5.0	50	0	83	69.6-128	47.4	13.3	23.1	
cis-1,2-Dichloroethene	42.16	5.0	50	0	84.3	68.8-130	46.75	10.3	23.7	
Ethylbenzene	43.65	5.0	50	0	87.3	68.6-124	50.56	14.7	24.9	
m,p-Xylene	88.2	5.0	100	0	88.2	64.5-125	101.9	14.5	25.1	
Styrene	45.32	5.0	50	0	90.6	65.9-125	51.55	12.9	22.8	
Tetrachloroethene	46.35	5.0	50	0	92.7	71.6-135	55.85	18.6	24.7	
Toluene	42.19	5.0	50	0	84.4	67.7-135	46.69	10.1	20	
Trichloroethene	45.01	5.0	50	0	90	70.9-139	50.41	11.3	20	
<i>Surr: 4-Bromofluorobenzene</i>	46.23	0	50	0	92.5	62.7-159	48.14	4.05		
<i>Surr: Dibromofluoromethane</i>	49.75	0	50	0	99.5	88.2-133	47.68	4.25		
<i>Surr: Toluene-d8</i>	48.48	0	50	0	97	81.5-110	46.83	3.46		

The following samples were analyzed in this batch: 1305495-58A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
WorkOrder: 1305495

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCS D	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
% of sample	
µg/Kg	
µg/Kg-dry	
µg/L	
mg/Kg	
mg/Kg-dry	

Sample Receipt Checklist

Client Name: **AECOM-CINCINNATI**

Date/Time Received: **22-May-13 00:00**

Work Order: **1305495**

Received by: **CEG**

Checklist completed by Chris Gibson 23-May-13
eSignature Date

Reviewed by: Chris Gibson 06-Jun-13
eSignature Date

Matrices:

Carrier name: Client

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 5.7

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

[Empty text box for comments]

CorrectiveAction:

[Empty text box for corrective action]



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Chain of Custody Form

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Holland, MI 49424-9263
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Page 1 of 2

1305495

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	PCB 8082											
Work Order		Project Number	60299534	B	Metals 6010											
Company Name	AECOM	Bill To Company	AECOM	C	Herbicides 8151											
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D	Pesticides 8081											
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E	VOC 5035											
				F	SVOC 8270											
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G												
Phone	(513) 878-6853	Phone	(513) 878-6844	H												
Fax	(513) 878-6848	Fax	(513) 878-6848	I												
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold	
1	IA#1S17-0002	01	5/21/13	1425	Soil	none	1	X										
2	IA#1S17-0204	02		1427			1	X										
3	IA#1S17-0406	03		1429			1	X										
4	IA#1S17-0608	04		1440			1	X										
5	IA#1S17-0810	05		1442			7	X	X	X	X	X	X					
6	IA#1S20-0002	06		1456			1	X										
7	IA#1S20-0204	07		1457			1	X										
8	IA#1S20-0406	08		1458			1	X										
9	IA#1S20-0608	09		1508			1	X										
10	IA#1S20-0810	10		1517			1	X										

Sampler(s) Please Print & Sign <i>Michael Vapp / Mike Kemp</i>		Shipment Method <i>Fed Ex</i>		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:	
Relinquished by: <i>Mike Kemp</i>	Date: <i>5/22/13</i>	Time: <i>1430</i>	Received by: <i>Tom O'Dowd</i>		Notes:				
Relinquished by: <i>Tom O'Dowd</i>	Date: <i>5-22-13</i>	Time:	Received by (Laboratory): <i>[Signature]</i>		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)		
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory): <i>[Signature]</i>				<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP CheckList	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035							<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV	
							<input type="checkbox"/> Level IV SW846/CLP		
							<input type="checkbox"/> Other / EDD		

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.



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Chain of Custody Form

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 Holland, MI 49424-9263
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 Fax: +1 616 399 6185

1305495

Customer Information		Project Information		ALS Project Manager:		ALS Work Order #:	
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	PCB 8082		
Work Order		Project Number	60299534	B	Metals 6010		
Company Name	AECOM	Bill To Company	AECOM	C	Herbicides 8151		
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D	Pesticides 8081		
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E	VOC 5035		
				F	SVOC 8270		
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G			
Phone	(513) 878-6853	Phone	(513) 878-6844	H			
Fax	(513) 878-6848	Fax	(513) 878-6848	I			
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J			

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	IA#1 S23-0005	11 5/21/13	1539	Soil	none	1	X										
2	IA#1 S23-0506	12	1547			1	X										
3	IA#1 S23-0608	13	1549			1	X										
4	IA#1 S23-0810	14	1601			7	X	X	X	X	X	X					
5	IA#1 S32-0002	15	1628			1	X										
6	IA#1 S32-0204	16	1630			1	X										
7	IA#1 S32-0406	17	1633			1	X										
8	IA#1 S32-0406-B	18	1633			1	X										
9	IA#1 S32-0608	19	1640			1	X										
10	IA#1 S32-0810	20	1645			1	X										

Sampler(s) Please Print & Sign <i>Michael Papp / Mild Papp</i>		Shipment Method <i>fedEx</i>		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour		Results Due Date:	
Relinquished by: <i>Mild Papp</i>	Date: <i>5/22/13</i>	Time: <i>1430</i>	Received by: <i>Tom O'Dowd</i>	Notes:			
Relinquished by: <i>Tom O'Dowd</i>	Date: <i>5-22-13</i>	Time:	Received by (Laboratory): <i>[Signature]</i>	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):			<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP CheckList
						<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV
						<input type="checkbox"/> Level IV SW846/CLP	
						<input type="checkbox"/> Other / EDD	



1305495

Customer Information		Project Information		ALS Project Manager:		ALS Work Order #:	
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	PCB 8082		
Work Order		Project Number	60299534	B	Metals 6010		
Company Name	AECOM	Bill To Company	AECOM	C	Herbicides 8151		
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D	Pesticides 8081		
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E	VOC 5035		
				F	SVOC-8270		
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G	VOC 8260		
Phone	(513) 878-6853	Phone	(513) 878-6844	H			
Fax	(513) 878-6848	Fax	(513) 878-6848	I			
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J			

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	IA#1 S36-0002	21	5/21/13	1706	soil	none	1	X									
2	IA#1 S36-0204	22		1708			1	X									
3	IA#1 S36-0406	23		1711			1	X									
4	IA#1 S36-0608	24		1728			1	X									
5	IA#1 S36-0810	25		1731			7	X	X	X	X	X					
6	TB-052113	26		-	water	HCL	2										X
7	IA#1 S21-0002	27	5/22/13	1030	soil	none	1	X									
8	IA#1 S21-0204	28		1032			1	X									
9	IA#1 S21-0406	29		1036			1	X									
10	IA#1 S21-0608	30		1050			1	X									

Sampler(s) Please Print & Sign: *Michael Papp* / *Mildred Papp*

Shipment Method: *4700 Fed Ex* / Required Turnaround Time: (Check Box) Std 10 WK Days 5 WK Days Other 2 WK Days 24 Hour

Results Due Date: _____

Relinquished by: *Mildred Papp* Date: *5/22/13* Time: *1430*

Received by: *Tom O'Dowd*

Relinquished by: *Tom O'Dowd* Date: *5-22-13* Time: _____

Received by (Laboratory): _____

Checked by (Laboratory): *5/22/13 1845*

QC Package: (Check One Box Below)

Level II Std QC TRRP Checklist

Level III Std QC/Raw Data TRRP Level IV

Level IV SW846/CLP

Other / EDD

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035



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1305495

Customer Information, Project Information, Parameter/Method Request for Analysis. Includes fields for Purchase Order (46496 ACM), Project Name (Whirlpool- Green Springs, OH- SWP), and various analysis parameters like PCB 8082, Metals 6010, etc.

Table with 15 columns: No., Sample Description, Date, Time, Matrix, Pres., # Bottles, A, B, C, D, E, F, G, H, I, J, Hold. Contains 10 rows of sample data with handwritten entries.

Sampler(s) Please Print & Sign, Shipment Method, Required Turnaround Time: (Check Box), Results Due Date.

Relinquished by, Received by, Logged by (Laboratory), Checked by (Laboratory), QC Package: (Check One Box Below), Preservative Key.

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group. 2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse. 3. The Chain of Custody is a legal document. All information must be completed accurately.



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1305495

ALS Project Manager:	ALS Work Order #:
----------------------	-------------------

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	PCB 8082
Work Order		Project Number	60299534	B	
Company Name	AECOM	Bill To Company	AECOM	C	
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D	
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E	
				F	
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G	
Phone	(513) 878-6853	Phone	(513) 878-6844	H	
Fax	(513) 878-6848	Fax	(513) 878-6848	I	
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold			
1	IA#1 S24-0406 39	5/22/13	1122	soil	none	1	X													
2	IA#1 S24-0608 40	↓	1128	↓	↓	1	X													
3	IA#1 S24-0810 41		1136			1	X													
4	IA#1 S25-0002 42		1328			1	X													
5	IA#1 S25-0002-B 43		1328			1	X													
6	IA#1 S25-0204 44		1330			1	X													
7	IA#1 S25-0406 45		1335			1	X													
8	IA#1 S25-0608 46		1341			1	X													
9	IA#1 S25-0810 47		1345			1	X													
10	IA#1 S26-0002 48		0842			1	X													

Sampler(s) Please Print & Sign <i>Michael Kapp / Mike Kapp</i>		Shipment Method		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:			
Relinquished by: <i>Mike Kapp</i>	Date: 5/22/13	Time: 1430	Received by: <i>Tom O'Dowd</i>		Notes:						
Relinquished by: <i>Tom O'Dowd</i>	Date: 5-22-13	Time:	Received by (Laboratory): <i>Chad [Signature]</i>		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)				
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory): <i>Chad [Signature]</i>				<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP Checklist			
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035							<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV			
							<input type="checkbox"/> Level IV SW846/CLP				
							<input type="checkbox"/> Other / EDD				



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1305495

ALS Project Manager: _____ ALS Work Order #: _____

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	PCB 8082										
Work Order		Project Number	60299534	B	Metals 6010										
Company Name	AECOM	Bill To Company	AECOM	C	Herbicides 8151										
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D	Pesticides 8081										
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E	VOC 5035										
				F	SVOC 8270										
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G											
Phone	(513) 878-6853	Phone	(513) 878-6844	H											
Fax	(513) 878-6848	Fax	(513) 878-6848	I											
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold	
1	IA#1 S26-0204 49	5/22/13	0845	Soil	none	1	X											
2	IA#1 S26-0406 50	↓	0847	↓	none	7	X	X	X	X	X	X						
3	IA#1 S26-0608 51		0856		none	1	X											
4	IA#1 S26-0811 52		0859			1	X											
5	IA#1 S28-0002 53		0805			1	X											
6	IA#1 S28-0204 54		0806			1	X											
7	IA#1 S28-0406 55		0807			1	X											
8	IA#1 S28-0608 56		0816			1	X											
9	IA#1 S28-0810 57		0822			1	X											
10	IA#1 S29-0002 58		1155			7	X	X	X	X	X	X	X	X				

Sampler(s) Please Print & Sign: Michael Lapp / Mike Lapp

Shipment Method: _____ Required Turnaround Time: (Check Box) Std 10 WK Days 5 WK Days Other 2 WK Days 24 Hour

Results Due Date: _____

Relinquished by: Mike Lapp Date: 5/22/13 Time: 1430

Received by: Tom O'Dowd Date: 5-22-13 Time: _____

Relinquished by (Laboratory): _____ Date: _____ Time: _____

Received by (Laboratory): _____ Date: 5/22/13 Time: 18:45

Logged by (Laboratory): _____ Date: _____ Time: _____

Checked by (Laboratory): _____ Date: _____ Time: _____

Notes: _____

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

QC Package: (Check One Box Below)

Level II Std QC TRRP CheckList

Level III Std QC/Raw Data TRRP Level IV

Level IV SW846/CLP

Other / EDD

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1305495

ALS Project Manager: _____ ALS Work Order #: _____

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	PCB 8082											
Work Order		Project Number	60299534	B												
Company Name	AECOM	Bill To Company	AECOM	C												
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D												
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E												
				F												
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G												
Phone	(513) 878-6853	Phone	(513) 878-6844	H												
Fax	(513) 878-6848	Fax	(513) 878-6848	I												
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	IA#1 S29-0204 59	5/22/13	1159	soil	none	1	X										
2	IA#1 S29-0405 60	↓	1211	↓	↓	↓	X										
3	IA#1 S29-0507 61	↓	1215	↓	↓	↓	X										
4	IA#1 S29-0709 62	↓	1218	↓	↓	↓	X										
5	IA#1 S29-0910 63	↓	1223	↓	↓	↓	X										
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign <i>Michael Papp / Mike Papp</i>		Shipment Method		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:			
Relinquished by: <i>Michael Papp</i>		Date: 5/22/13	Time: 1430	Received by: <i>Tom O'Dowd</i>		Notes:					
Relinquished by: <i>Tom O'Dowd</i>		Date: 5-22-13	Time:	Received by (Laboratory): <i>[Signature]</i>		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)			
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory): <i>[Signature]</i>				<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP CheckList		
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035				5/22/13 18:45				<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV		
								<input type="checkbox"/> Level IV SW846/CLP			
								<input type="checkbox"/> Other / EDD			

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26-Jun-2013

Elaine Nomina
AECOM
4219 Malsbury Road
Cincinnati, OH 45242

Tel: (513) 878-6853
Fax: (513) 878-6848

Re: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: **1305544**

Dear Elaine,

ALS Environmental received 80 samples on 24-May-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 180.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

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Environmental

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RIGHT SOLUTIONS RIGHT PARTNER

Client: AECOM
 Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
 Work Order: 1305544

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1305544-01	IA#1S30-0002	Soil		5/22/2013 14:57	5/24/2013	<input type="checkbox"/>
1305544-02	IA#1S30-0204	Soil		5/22/2013 15:00	5/24/2013	<input type="checkbox"/>
1305544-03	IA#1S30-0405	Soil		5/22/2013 15:02	5/24/2013	<input type="checkbox"/>
1305544-04	IA#1S30-0507	Soil		5/22/2013 15:10	5/24/2013	<input type="checkbox"/>
1305544-05	IA#1S30-0710	Soil		5/22/2013 15:13	5/24/2013	<input type="checkbox"/>
1305544-06	IA#1S31-0002	Soil		5/22/2013 15:37	5/24/2013	<input type="checkbox"/>
1305544-07	IA#1S31-0204	Soil		5/22/2013 15:39	5/24/2013	<input type="checkbox"/>
1305544-08	IA#1S31-0406	Soil		5/22/2013 15:41	5/24/2013	<input type="checkbox"/>
1305544-09	IA#1S31-0608	Soil		5/22/2013 15:50	5/24/2013	<input type="checkbox"/>
1305544-10	IA#1S31-0608-B	Soil		5/22/2013 15:50	5/24/2013	<input type="checkbox"/>
1305544-11	IA#1S31-0810	Soil		5/22/2013 15:15	5/24/2013	<input type="checkbox"/>
1305544-12	IA#1S31-1012	Soil		5/22/2013 16:10	5/24/2013	<input type="checkbox"/>
1305544-13	IA#1S31-1214	Soil		5/22/2013 16:11	5/24/2013	<input type="checkbox"/>
1305544-14	IA#1S31-1417	Soil		5/22/2013 16:12	5/24/2013	<input type="checkbox"/>
1305544-15	IA#1S35-0005	Soil		5/22/2013 17:00	5/24/2013	<input type="checkbox"/>
1305544-16	IA#1S35-0507	Soil		5/22/2013 17:05	5/24/2013	<input type="checkbox"/>
1305544-17	IA#1S35-0709	Soil		5/22/2013 17:07	5/24/2013	<input type="checkbox"/>
1305544-17	IA#1S35-0709	Soil		5/22/2013 17:07	5/24/2013	<input type="checkbox"/>
1305544-18	IA#1S35-0911	Soil		5/22/2013 17:05	5/24/2013	<input type="checkbox"/>
1305544-19	IA#1S35-1113	Soil		5/22/2013 17:31	5/24/2013	<input type="checkbox"/>
1305544-20	IA#1S35-1315	Soil		5/22/2013 17:33	5/24/2013	<input type="checkbox"/>
1305544-21	IA#1S35-1517.5	Soil		5/22/2013 17:40	5/24/2013	<input type="checkbox"/>
1305544-22	IA#1S39-0002	Soil		5/23/2013 07:53	5/24/2013	<input type="checkbox"/>
1305544-23	IA#1S39-0204	Soil		5/23/2013 07:55	5/24/2013	<input type="checkbox"/>
1305544-24	IA#1S39-0406	Soil		5/23/2013 07:57	5/24/2013	<input type="checkbox"/>
1305544-25	IA#1S39-0608	Soil		5/23/2013 08:05	5/24/2013	<input type="checkbox"/>
1305544-26	IA#1S39-0810	Soil		5/23/2013 08:07	5/24/2013	<input type="checkbox"/>
1305544-27	IA#1S39-1012	Soil		5/23/2013 08:10	5/24/2013	<input type="checkbox"/>
1305544-28	IA#1S39-1214	Soil		5/23/2013 08:15	5/24/2013	<input type="checkbox"/>
1305544-29	IA#1S39-1416	Soil		5/23/2013 08:20	5/24/2013	<input type="checkbox"/>
1305544-30	IA#1S39-1617	Soil		5/23/2013 08:38	5/24/2013	<input type="checkbox"/>
1305544-31	IA#1S42-0002	Soil		5/23/2013 09:04	5/24/2013	<input type="checkbox"/>
1305544-32	IA#1S42-0204	Soil		5/23/2013 09:10	5/24/2013	<input type="checkbox"/>
1305544-33	IA#1S42-0406	Soil		5/23/2013 09:13	5/24/2013	<input type="checkbox"/>
1305544-34	IA#1S42-0608	Soil		5/23/2013 09:28	5/24/2013	<input type="checkbox"/>
1305544-35	IA#1S42-0810	Soil		5/23/2013 09:33	5/24/2013	<input type="checkbox"/>
1305544-35	IA#1S42-0810	Soil		5/23/2013 09:33	5/24/2013	<input type="checkbox"/>
1305544-36	IA#1S45-0002	Soil		5/23/2013 09:40	5/24/2013	<input type="checkbox"/>
1305544-37	IA#1S45-0204	Soil		5/23/2013 09:42	5/24/2013	<input type="checkbox"/>

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305544

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1305544-38	IA#1S45-0406	Soil		5/23/2013 09:44	5/24/2013	<input type="checkbox"/>
1305544-39	IA#1S45-0608	Soil		5/23/2013 09:53	5/24/2013	<input type="checkbox"/>
1305544-40	IA#1S45-0810	Soil		5/23/2013 09:58	5/24/2013	<input type="checkbox"/>
1305544-41	IA#1S46-0002	Soil		5/23/2013 10:41	5/24/2013	<input type="checkbox"/>
1305544-42	IA#1S46-0204	Soil		5/23/2013 10:44	5/24/2013	<input type="checkbox"/>
1305544-43	IA#1S46-0406	Soil		5/23/2013 10:47	5/24/2013	<input type="checkbox"/>
1305544-44	IA#1S46-0608	Soil		5/23/2013 10:57	5/24/2013	<input type="checkbox"/>
1305544-44	IA#1S46-0608	Soil		5/23/2013 10:57	5/24/2013	<input type="checkbox"/>
1305544-45	IA#1S46-0810	Soil		5/23/2013 11:00	5/24/2013	<input type="checkbox"/>
1305544-46	IA#1S46-1012.5	Soil		5/23/2013 11:08	5/24/2013	<input type="checkbox"/>
1305544-47	IA#1S47-0002	Soil		5/23/2013 11:35	5/24/2013	<input type="checkbox"/>
1305544-48	IA#1S47-0204	Soil		5/23/2013 11:37	5/24/2013	<input type="checkbox"/>
1305544-49	IA#1S47-0406	Soil		5/23/2013 11:40	5/24/2013	<input type="checkbox"/>
1305544-50	IA#1S47-0608	Soil		5/23/2013 11:47	5/24/2013	<input type="checkbox"/>
1305544-51	IA#1S49-0002	Soil		5/23/2013 12:58	5/24/2013	<input type="checkbox"/>
1305544-52	IA#1S49-0204	Soil		5/23/2013 13:02	5/24/2013	<input type="checkbox"/>
1305544-53	IA#1S49-0406	Soil		5/23/2013 13:03	5/24/2013	<input type="checkbox"/>
1305544-53	IA#1S49-0406	Soil		5/23/2013 13:03	5/24/2013	<input type="checkbox"/>
1305544-54	IA#1S49-0608	Soil		5/23/2013 13:11	5/24/2013	<input type="checkbox"/>
1305544-55	IA#1S49-0810	Soil		5/23/2013 13:13	5/24/2013	<input type="checkbox"/>
1305544-56	IA#1S47-0810	Soil		5/23/2013 11:47	5/24/2013	<input type="checkbox"/>
1305544-57	IA#1S47-1012	Soil		5/23/2013 13:54	5/24/2013	<input type="checkbox"/>
1305544-58	IA#1S43-0002	Soil		5/23/2013 14:14	5/24/2013	<input type="checkbox"/>
1305544-59	IA#1S43-0204	Soil		5/23/2013 14:16	5/24/2013	<input type="checkbox"/>
1305544-60	IA#1S43-0406	Soil		5/23/2013 14:18	5/24/2013	<input type="checkbox"/>
1305544-61	IA#1S43-0608	Soil		5/23/2013 14:26	5/24/2013	<input type="checkbox"/>
1305544-62	IA#1S43-0810	Soil		5/23/2013 14:28	5/24/2013	<input type="checkbox"/>
1305544-63	IA#1S43-1012	Soil		5/23/2013 14:42	5/24/2013	<input type="checkbox"/>
1305544-64	IA#1S40-0002	Soil		5/23/2013 15:00	5/24/2013	<input type="checkbox"/>
1305544-65	IA#1S40-0204	Soil		5/23/2013 15:02	5/24/2013	<input type="checkbox"/>
1305544-66	IA#1S40-0406	Soil		5/23/2013 15:03	5/24/2013	<input type="checkbox"/>
1305544-67	IA#1S40-0608	Soil		5/23/2013 15:10	5/24/2013	<input type="checkbox"/>
1305544-68	IA#1S40-0810	Soil		5/23/2013 15:12	5/24/2013	<input type="checkbox"/>
1305544-68	IA#1S40-0810	Soil		5/23/2013 15:12	5/24/2013	<input type="checkbox"/>
1305544-69	IA#1S41-0002	Soil		5/23/2013 15:39	5/24/2013	<input type="checkbox"/>
1305544-70	IA#1S41-0204	Soil		5/23/2013 15:41	5/24/2013	<input type="checkbox"/>
1305544-71	IA#1S41-0406	Soil		5/23/2013 15:42	5/24/2013	<input type="checkbox"/>
1305544-72	IA#1S41-0608	Soil		5/23/2013 15:50	5/24/2013	<input type="checkbox"/>
1305544-73	IA#1S41-0809	Soil		5/23/2013 15:52	5/24/2013	<input type="checkbox"/>
1305544-74	IA#1S38-0002	Soil		5/23/2013 16:42	5/24/2013	<input type="checkbox"/>
1305544-75	IA#1S38-0204	Soil		5/23/2013 16:44	5/24/2013	<input type="checkbox"/>

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305544

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1305544-76	IA#1S38-0406	Soil		5/23/2013 16:46	5/24/2013	<input type="checkbox"/>
1305544-77	IA#1S38-0608	Soil		5/23/2013 16:57	5/24/2013	<input type="checkbox"/>
1305544-78	IA#1S38-0810	Soil		5/23/2013 17:00	5/24/2013	<input type="checkbox"/>
1305544-79	Trip Blank	Water		5/23/2013	5/24/2013	<input type="checkbox"/>
1305544-80	IA#1S 45-1012.5	Soil		5/23/2013 10:08	5/24/2013	<input type="checkbox"/>

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305544

Case Narrative

The analyses requested were analyzed according to Ohio Voluntary Action Program requirements.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

Note: VOC test on 0608, not 0608B as indicated on COC.

The pesticides and herbicides analysis was performed by Microbac Laboratories, Marietta, OH.

The original report did not include the full TAL metals. The report has been revised to include the full list. The 7470 mercury test was performed outside of the holding time due to laboratory log-in error.

All soils are reported as dry weight corrected.

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S30-0002

Lab ID: 1305544-01

Collection Date: 5/22/2013 02:57 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.22	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	1.4		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	91.8		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	88.4		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	9.4		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S30-0204

Lab ID: 1305544-02

Collection Date: 5/22/2013 03:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	91.0		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	87.8		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	20		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S30-0405

Lab ID: 1305544-03

Collection Date: 5/22/2013 03:02 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	90.8		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	84.8		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	17		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S30-0507

Lab ID: 1305544-04

Collection Date: 5/22/2013 03:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	92.0		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	82.6		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	17		0.010	% of sample	1	5/30/2013
MERCURY BY CVAA			SW7471A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND	H	0.35	mg/Kg-dry	1	6/26/2013 05:02 PM
METALS BY ICP			SW6010B		Prep Date: 5/28/2013	Analyst: VAW
Aluminum	8,900		600	mg/Kg-dry	1	5/29/2013 04:02 PM
Antimony	ND		3.6	mg/Kg-dry	1	5/29/2013 04:02 PM
Arsenic	11		6.0	mg/Kg-dry	1	5/29/2013 04:02 PM
Barium	56		12	mg/Kg-dry	1	5/29/2013 04:02 PM
Beryllium	ND		0.60	mg/Kg-dry	1	5/29/2013 04:02 PM
Cadmium	ND		1.2	mg/Kg-dry	1	5/29/2013 04:02 PM
Calcium	57,000		600	mg/Kg-dry	1	5/29/2013 04:02 PM
Chromium	15		2.4	mg/Kg-dry	1	5/29/2013 04:02 PM
Cobalt	9.1		6.0	mg/Kg-dry	1	5/29/2013 04:02 PM
Copper	24		6.0	mg/Kg-dry	1	5/29/2013 04:02 PM
Iron	24,000		120	mg/Kg-dry	1	5/29/2013 04:02 PM
Lead	11		6.0	mg/Kg-dry	1	5/29/2013 04:02 PM
Magnesium	10,000		120	mg/Kg-dry	1	5/29/2013 04:02 PM
Manganese	330		6.0	mg/Kg-dry	1	5/29/2013 04:02 PM
Nickel	27		6.0	mg/Kg-dry	1	5/29/2013 04:02 PM
Potassium	970		600	mg/Kg-dry	1	5/29/2013 04:02 PM
Selenium	ND		3.6	mg/Kg-dry	1	5/29/2013 04:02 PM
Silver	ND		1.2	mg/Kg-dry	1	5/29/2013 04:02 PM
Sodium	ND		600	mg/Kg-dry	1	5/29/2013 04:02 PM
Thallium	ND		3.6	mg/Kg-dry	1	5/31/2013 12:27 AM
Vanadium	17		6.0	mg/Kg-dry	1	5/29/2013 04:02 PM
Zinc	62		6.0	mg/Kg-dry	1	5/29/2013 04:02 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/30/2013	Analyst: Microb

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S30-0507

Lab ID: 1305544-04

Collection Date: 5/22/2013 03:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		1.9	µg/Kg	1	6/5/2013 04:12 AM
4,4'-DDE	ND		1.9	µg/Kg	1	6/5/2013 04:12 AM
4,4'-DDT	ND		1.9	µg/Kg	1	6/5/2013 04:12 AM
Aldrin	ND		1.9	µg/Kg	1	6/5/2013 04:12 AM
alpha-BHC	ND		1.9	µg/Kg	1	6/5/2013 04:12 AM
alpha-Chlordane	ND		1.9	µg/Kg	1	6/5/2013 04:12 AM
beta-BHC	ND		1.9	µg/Kg	1	6/5/2013 04:12 AM
delta-BHC	ND		1.9	µg/Kg	1	6/5/2013 04:12 AM
Dieldrin	ND		1.9	µg/Kg	1	6/5/2013 04:12 AM
Endosulfan I	ND		1.9	µg/Kg	1	6/5/2013 04:12 AM
Endosulfan II	ND		1.9	µg/Kg	1	6/5/2013 04:12 AM
Endosulfan sulfate	ND		1.9	µg/Kg	1	6/5/2013 04:12 AM
Endrin	ND		1.9	µg/Kg	1	6/5/2013 04:12 AM
Endrin aldehyde	ND		1.9	µg/Kg	1	6/5/2013 04:12 AM
Endrin ketone	ND		1.9	µg/Kg	1	6/5/2013 04:12 AM
gamma-BHC (Lindane)	ND		1.9	µg/Kg	1	6/5/2013 04:12 AM
gamma-Chlordane	ND		1.9	µg/Kg	1	6/5/2013 04:12 AM
Heptachlor	ND		1.9	µg/Kg	1	6/5/2013 04:12 AM
Heptachlor epoxide	ND		1.9	µg/Kg	1	6/5/2013 04:12 AM
Methoxychlor	ND		1.9	µg/Kg	1	6/5/2013 04:12 AM
Toxaphene	ND		38	µg/Kg	1	6/5/2013 04:12 AM
Surr: Decachlorobiphenyl	57.3		33-143	%REC	1	6/5/2013 04:12 AM
Surr: Tetrachloro-m-xylene	50.4		39-130	%REC	1	6/5/2013 04:12 AM

HERBICIDES

SW8151

Prep Date: **5/31/2013**

Analyst: **Microb**

2,4,5-T	ND		0.0057	mg/Kg	1	6/4/2013 12:15 PM
2,4,5-TP (Silvex)	ND		0.0042	mg/Kg	1	6/4/2013 12:15 PM
2,4-D	ND		0.057	mg/Kg	1	6/4/2013 12:15 PM
2,4-DB	ND		0.057	mg/Kg	1	6/4/2013 12:15 PM
Dalapon	ND		0.14	mg/Kg	1	6/4/2013 12:15 PM
Dicamba	ND		0.0057	mg/Kg	1	6/4/2013 12:15 PM
Dichlorprop	ND		0.057	mg/Kg	1	6/4/2013 12:15 PM
Dinoseb	ND		0.028	mg/Kg	1	6/4/2013 12:15 PM
MCPA	ND		5.7	mg/Kg	1	6/4/2013 12:15 PM
MCPP	ND		5.7	mg/Kg	1	6/4/2013 12:15 PM
Pentachlorophenol	ND		0.0057	mg/Kg	1	6/4/2013 12:15 PM
Surr: 2,4-Dichlorophenylacetic acid	104		25-110	%REC	1	6/4/2013 12:15 PM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: **5/28/2013**

Analyst: **JCL**

1,2,4,5-Tetrachlorobenzene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
1,2,4-Trichlorobenzene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S30-0507

Lab ID: 1305544-04

Collection Date: 5/22/2013 03:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
1,3-Dichlorobenzene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
1,3-Dinitrobenzene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
1,4-Dichlorobenzene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
1-Methylnaphthalene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
1-Naphthylamine	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
2,3,4,6-Tetrachlorophenol	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
2,4,5-Trichlorophenol	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
2,4,6-Trichlorophenol	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
2,4-Dichlorophenol	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
2,4-Dimethylphenol	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
2,4-Dinitrophenol	ND		2,000	µg/Kg-dry	1	5/30/2013 10:13 PM
2,4-Dinitrotoluene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
2,6-Dichlorophenol	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
2,6-Dinitrotoluene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
2-Acetylaminofluorene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
2-Chloronaphthalene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
2-Chlorophenol	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
2-Methylnaphthalene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
2-Methylphenol	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
2-Naphthylamine	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
2-Nitroaniline	ND		2,000	µg/Kg-dry	1	5/30/2013 10:13 PM
2-Nitrophenol	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
2-Picoline	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
3&4-Methylphenol	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
3,3'-Dichlorobenzidine	ND		790	µg/Kg-dry	1	5/30/2013 10:13 PM
3-Methylcholanthrene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
3-Nitroaniline	ND		2,000	µg/Kg-dry	1	5/30/2013 10:13 PM
4,6-Dinitro-2-methylphenol	ND		2,000	µg/Kg-dry	1	5/30/2013 10:13 PM
4-Aminobiphenyl	ND		790	µg/Kg-dry	1	5/30/2013 10:13 PM
4-Bromophenyl phenyl ether	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
4-Chloro-3-methylphenol	ND		790	µg/Kg-dry	1	5/30/2013 10:13 PM
4-Chloroaniline	ND		790	µg/Kg-dry	1	5/30/2013 10:13 PM
4-Chlorophenyl phenyl ether	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
4-Nitroaniline	ND		790	µg/Kg-dry	1	5/30/2013 10:13 PM
4-Nitrophenol	ND		2,000	µg/Kg-dry	1	5/30/2013 10:13 PM
4-Nitroquinoline 1-oxide	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
5-Nitro-o-toluidine	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
7,12-Dimethylbenz(a)anthracene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Acenaphthene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S30-0507

Lab ID: 1305544-04

Collection Date: 5/22/2013 03:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Acetophenone	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Aniline	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Anthracene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Azobenzene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Benzidine	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Benzo(a)anthracene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Benzo(a)pyrene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Benzo(b)fluoranthene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Benzo(g,h,i)perylene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Benzo(k)fluoranthene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Benzyl alcohol	ND		790	µg/Kg-dry	1	5/30/2013 10:13 PM
Bis(2-chloroethoxy)methane	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Bis(2-chloroethyl)ether	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Bis(2-chloroisopropyl)ether	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Bis(2-ethylhexyl)phthalate	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Butyl benzyl phthalate	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Carbazole	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Chrysene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Dibenzo(a,h)anthracene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Dibenzofuran	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Diethyl phthalate	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Dimethyl phthalate	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Di-n-butyl phthalate	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Di-n-octyl phthalate	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Dinoseb	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Diphenylamine	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Ethyl methanesulfonate	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Fluoranthene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Fluorene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Hexachlorobenzene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Hexachlorobutadiene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Hexachlorocyclopentadiene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Hexachloroethane	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Indeno(1,2,3-cd)pyrene	ND		180	µg/Kg-dry	1	5/30/2013 10:13 PM
Isophorone	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Isosafrole	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Methapyrilene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Methyl methanesulfonate	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Naphthalene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S30-0507

Lab ID: 1305544-04

Collection Date: 5/22/2013 03:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
N-Nitrosodiethylamine	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
N-Nitrosodimethylamine	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
N-Nitroso-di-n-butylamine	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
N-Nitrosodi-n-propylamine	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
N-Nitrosomethylethylamine	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
N-Nitrosomorpholine	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
N-Nitrosopiperidine	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
N-Nitrosopyrrolidine	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
o-Toluidine	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
p-Dimethylaminoazobenzene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Pentachlorobenzene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Pentachloroethane	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Pentachloronitrobenzene	ND		790	µg/Kg-dry	1	5/30/2013 10:13 PM
Pentachlorophenol	ND		2,000	µg/Kg-dry	1	5/30/2013 10:13 PM
Phenacetin	ND		790	µg/Kg-dry	1	5/30/2013 10:13 PM
Phenanthrene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Phenol	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Pyrene	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Pyridine	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Safrole	ND		400	µg/Kg-dry	1	5/30/2013 10:13 PM
Surr: 2,4,6-Tribromophenol	78.9		18-115	%REC	1	5/30/2013 10:13 PM
Surr: 2-Fluorobiphenyl	42.4		30-116	%REC	1	5/30/2013 10:13 PM
Surr: 2-Fluorophenol	39.9		24-105	%REC	1	5/30/2013 10:13 PM
Surr: 4-Terphenyl-d14	69.0		40-127	%REC	1	5/30/2013 10:13 PM
Surr: Nitrobenzene-d5	45.9		32-106	%REC	1	5/30/2013 10:13 PM
Surr: Phenol-d5	42.7		39-123	%REC	1	5/30/2013 10:13 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/31/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
1,1,1-Trichloroethane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
1,1,2,2-Tetrachloroethane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
1,1,2-Trichloroethane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
1,1-Dichloroethane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
1,1-Dichloroethene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
1,1-Dichloropropene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
1,2,3-Trichlorobenzene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
1,2,3-Trichloropropane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
1,2,4-Trichlorobenzene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
1,2,4-Trimethylbenzene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
1,2-Dibromo-3-chloropropane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S30-0507

Lab ID: 1305544-04

Collection Date: 5/22/2013 03:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
1,2-Dichlorobenzene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
1,2-Dichloroethane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
1,2-Dichloropropane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
1,3,5-Trimethylbenzene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
1,3-Dichlorobenzene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
1,3-Dichloropropane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
1,4-Dichlorobenzene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
2,2-Dichloropropane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
2-Butanone	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
2-Chlorotoluene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
2-Hexanone	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
4-Chlorotoluene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
4-Methyl-2-pentanone	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Acetone	7.2		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Benzene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Bromobenzene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Bromochloromethane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Bromodichloromethane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Bromoform	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Bromomethane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Carbon disulfide	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Carbon tetrachloride	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Chlorobenzene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Chloroethane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Chloroform	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Chloromethane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
cis-1,2-Dichloroethene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
cis-1,3-Dichloropropene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Dibromochloromethane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Dibromomethane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Dichlorodifluoromethane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Ethylbenzene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Hexachlorobutadiene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Isopropylbenzene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
m,p-Xylene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Methyl tert-butyl ether	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Methylene chloride	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Naphthalene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
n-Butylbenzene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S30-0507

Lab ID: 1305544-04

Collection Date: 5/22/2013 03:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
o-Xylene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
p-Isopropyltoluene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
sec-Butylbenzene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Styrene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
tert-Butylbenzene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Tetrachloroethene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Toluene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
trans-1,2-Dichloroethene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
trans-1,3-Dichloropropene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Trichloroethene	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Trichlorofluoromethane	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Vinyl chloride	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
Xylenes, Total	ND		4.4	µg/Kg-dry	1	5/31/2013 12:56 PM
<i>Surr: 4-Bromofluorobenzene</i>	98.1		62.7-159	%REC	1	5/31/2013 12:56 PM
<i>Surr: Dibromofluoromethane</i>	96.6		88.2-133	%REC	1	5/31/2013 12:56 PM
<i>Surr: Toluene-d8</i>	96.1		81.5-110	%REC	1	5/31/2013 12:56 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S30-0710

Lab ID: 1305544-05

Collection Date: 5/22/2013 03:13 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	90.6		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	87.2		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S31-0002

Lab ID: 1305544-06

Collection Date: 5/22/2013 03:37 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	90.0		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	84.8		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S31-0204

Lab ID: 1305544-07

Collection Date: 5/22/2013 03:39 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	2.2		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	92.6		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	83.0		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	19		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S31-0406

Lab ID: 1305544-08

Collection Date: 5/22/2013 03:41 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		12	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1221	ND		24	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1232	ND		12	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1242	ND		12	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1248	ND		12	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1254	120		12	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1260	ND		12	mg/Kg-dry	100	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	78.0		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	90.0		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S31-0608

Lab ID: 1305544-09

Collection Date: 5/22/2013 03:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		250	mg/Kg-dry	1000	6/3/2013 10:11 AM
Aroclor 1221	ND		500	mg/Kg-dry	1000	6/3/2013 10:11 AM
Aroclor 1232	ND		250	mg/Kg-dry	1000	6/3/2013 10:11 AM
Aroclor 1242	ND		250	mg/Kg-dry	1000	6/3/2013 10:11 AM
Aroclor 1248	ND		250	mg/Kg-dry	1000	6/3/2013 10:11 AM
Aroclor 1254	1,700		250	mg/Kg-dry	1000	6/3/2013 10:11 AM
Aroclor 1260	ND		250	mg/Kg-dry	1000	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	85.4		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	0	S	34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	60		0.010	% of sample	1	5/30/2013
VOLATILE ORGANIC COMPOUNDS			SW8260		Prep Date: 5/31/2013	Analyst: LAK
1,1,1,2-Tetrachloroethane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
1,1,1-Trichloroethane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
1,1,2,2-Tetrachloroethane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
1,1,2-Trichloroethane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
1,1-Dichloroethane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
1,1-Dichloroethene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
1,1-Dichloropropene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
1,2,3-Trichlorobenzene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
1,2,3-Trichloropropane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
1,2,4-Trichlorobenzene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
1,2,4-Trimethylbenzene	7,100		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
1,2-Dibromo-3-chloropropane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
1,2-Dibromoethane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
1,2-Dichlorobenzene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
1,2-Dichloroethane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
1,2-Dichloropropane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
1,3,5-Trimethylbenzene	1,800		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
1,3-Dichlorobenzene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
1,3-Dichloropropane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
1,4-Dichlorobenzene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
2,2-Dichloropropane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
2-Butanone	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
2-Chlorotoluene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
2-Hexanone	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
4-Chlorotoluene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
4-Methyl-2-pentanone	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S31-0608

Lab ID: 1305544-09

Collection Date: 5/22/2013 03:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acetone	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Benzene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Bromobenzene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Bromochloromethane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Bromodichloromethane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Bromoform	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Bromomethane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Carbon disulfide	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Carbon tetrachloride	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Chlorobenzene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Chloroethane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Chloroform	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Chloromethane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
cis-1,2-Dichloroethene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
cis-1,3-Dichloropropene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Dibromochloromethane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Dibromomethane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Dichlorodifluoromethane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Ethylbenzene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Hexachlorobutadiene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Isopropylbenzene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
m,p-Xylene	1,600		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Methyl tert-butyl ether	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Methylene chloride	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Naphthalene	6,900		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
n-Butylbenzene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
n-Propylbenzene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
o-Xylene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
p-Isopropyltoluene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
sec-Butylbenzene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Styrene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
tert-Butylbenzene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Tetrachloroethene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Toluene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
trans-1,2-Dichloroethene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
trans-1,3-Dichloropropene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Trichloroethene	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Trichlorofluoromethane	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Vinyl chloride	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM
Xylenes, Total	ND		1,500	µg/Kg-dry	125	6/3/2013 03:26 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S31-0608

Lab ID: 1305544-09

Collection Date: 5/22/2013 03:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Bromofluorobenzene	102		62.7-159	%REC	125	6/3/2013 03:26 PM
Surr: Dibromofluoromethane	96.1		88.2-133	%REC	125	6/3/2013 03:26 PM
Surr: Toluene-d8	97.0		81.5-110	%REC	125	6/3/2013 03:26 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S31-0608-B

Lab ID: 1305544-10

Collection Date: 5/22/2013 03:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		28	mg/Kg-dry	100	6/3/2013
Aroclor 1221	ND		55	mg/Kg-dry	100	6/3/2013
Aroclor 1232	ND		28	mg/Kg-dry	100	6/3/2013
Aroclor 1242	ND		28	mg/Kg-dry	100	6/3/2013
Aroclor 1248	ND		28	mg/Kg-dry	100	6/3/2013
Aroclor 1254	860		28	mg/Kg-dry	100	6/3/2013
Aroclor 1260	ND		28	mg/Kg-dry	100	6/3/2013
Surr: Decachlorobiphenyl	80.8		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	86.2		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	64		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S31-0810

Lab ID: 1305544-11

Collection Date: 5/22/2013 03:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		31	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1221	ND		62	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1232	ND		31	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1242	ND		31	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1248	ND		31	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1254	980		31	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1260	ND		31	mg/Kg-dry	100	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	86.4		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	70.4		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	68		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S31-1012

Lab ID: 1305544-12

Collection Date: 5/22/2013 04:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	0.13		0.13	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	99.2		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	95.6		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	21		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S31-1214

Lab ID: 1305544-13

Collection Date: 5/22/2013 04:11 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	99.8		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	103		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	18		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S31-1417

Lab ID: 1305544-14

Collection Date: 5/22/2013 04:12 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	84.0		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	66.8		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S35-0005

Lab ID: 1305544-15

Collection Date: 5/22/2013 05:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		200	mg/Kg-dry	1000	6/3/2013 10:11 AM
Aroclor 1221	ND		400	mg/Kg-dry	1000	6/3/2013 10:11 AM
Aroclor 1232	ND		200	mg/Kg-dry	1000	6/3/2013 10:11 AM
Aroclor 1242	ND		200	mg/Kg-dry	1000	6/3/2013 10:11 AM
Aroclor 1248	ND		200	mg/Kg-dry	1000	6/3/2013 10:11 AM
Aroclor 1254	1,300		200	mg/Kg-dry	1000	6/3/2013 10:11 AM
Aroclor 1260	ND		200	mg/Kg-dry	1000	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	92.4		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	79.2		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	50		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S35-0507

Lab ID: 1305544-16

Collection Date: 5/22/2013 05:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		17	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1221	ND		35	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1232	ND		17	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1242	ND		17	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1248	ND		17	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1254	390		17	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1260	ND		17	mg/Kg-dry	100	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	87.0		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	77.0		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	43		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S35-0709

Lab ID: 1305544-17

Collection Date: 5/22/2013 05:07 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		270	mg/Kg-dry	1000	6/3/2013 10:11 AM
Aroclor 1221	ND		540	mg/Kg-dry	1000	6/3/2013 10:11 AM
Aroclor 1232	ND		270	mg/Kg-dry	1000	6/3/2013 10:11 AM
Aroclor 1242	ND		270	mg/Kg-dry	1000	6/3/2013 10:11 AM
Aroclor 1248	ND		270	mg/Kg-dry	1000	6/3/2013 10:11 AM
Aroclor 1254	2,100		270	mg/Kg-dry	1000	6/3/2013 10:11 AM
Aroclor 1260	ND		270	mg/Kg-dry	1000	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	105		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	78.0		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	63		0.010	% of sample	1	5/30/2013
MERCURY BY CVAA			SW7471A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND	H	0.77	mg/Kg-dry	1	6/26/2013 05:08 PM
METALS BY ICP			SW6010B		Prep Date: 5/28/2013	Analyst: VAW
Aluminum	14,000		1,300	mg/Kg-dry	1	5/29/2013 04:27 PM
Antimony	49		8.0	mg/Kg-dry	1	5/29/2013 04:27 PM
Arsenic	ND		13	mg/Kg-dry	1	5/29/2013 04:27 PM
Barium	4,900		27	mg/Kg-dry	1	5/29/2013 04:27 PM
Beryllium	ND		1.3	mg/Kg-dry	1	5/29/2013 04:27 PM
Cadmium	ND		2.7	mg/Kg-dry	1	5/29/2013 04:27 PM
Calcium	18,000		1,300	mg/Kg-dry	1	5/29/2013 04:27 PM
Chromium	680		5.3	mg/Kg-dry	1	5/29/2013 04:27 PM
Cobalt	660		13	mg/Kg-dry	1	5/29/2013 04:27 PM
Copper	150		13	mg/Kg-dry	1	5/29/2013 04:27 PM
Iron	52,000		270	mg/Kg-dry	1	5/29/2013 04:27 PM
Lead	220		13	mg/Kg-dry	1	5/29/2013 04:27 PM
Magnesium	9,500		270	mg/Kg-dry	1	5/29/2013 04:27 PM
Manganese	1,300		13	mg/Kg-dry	1	5/29/2013 04:27 PM
Nickel	1,900		13	mg/Kg-dry	1	5/29/2013 04:27 PM
Potassium	7,300		1,300	mg/Kg-dry	1	5/29/2013 04:27 PM
Selenium	ND		8.0	mg/Kg-dry	1	5/29/2013 04:27 PM
Silver	ND		2.7	mg/Kg-dry	1	5/29/2013 04:27 PM
Sodium	14,000		1,300	mg/Kg-dry	1	5/29/2013 04:27 PM
Thallium	ND		8.0	mg/Kg-dry	1	5/29/2013 04:27 PM
Vanadium	18		13	mg/Kg-dry	1	5/29/2013 04:27 PM
Zinc	3,800		13	mg/Kg-dry	1	5/29/2013 04:27 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/30/2013	Analyst: Microb

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S35-0709

Lab ID: 1305544-17

Collection Date: 5/22/2013 05:07 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		77	µg/Kg	1	6/5/2013 10:12 AM
4,4'-DDE	ND		77	µg/Kg	1	6/5/2013 10:12 AM
4,4'-DDT	ND		77	µg/Kg	1	6/5/2013 10:12 AM
Aldrin	ND		77	µg/Kg	1	6/5/2013 10:12 AM
alpha-BHC	ND		77	µg/Kg	1	6/5/2013 10:12 AM
alpha-Chlordane	ND		77	µg/Kg	1	6/5/2013 10:12 AM
beta-BHC	ND		77	µg/Kg	1	6/5/2013 10:12 AM
delta-BHC	ND		77	µg/Kg	1	6/5/2013 10:12 AM
Dieldrin	ND		77	µg/Kg	1	6/5/2013 10:12 AM
Endosulfan I	ND		77	µg/Kg	1	6/5/2013 10:12 AM
Endosulfan II	ND		77	µg/Kg	1	6/5/2013 10:12 AM
Endosulfan sulfate	ND		77	µg/Kg	1	6/5/2013 10:12 AM
Endrin	ND		77	µg/Kg	1	6/5/2013 10:12 AM
Endrin aldehyde	ND		77	µg/Kg	1	6/5/2013 10:12 AM
Endrin ketone	ND		77	µg/Kg	1	6/5/2013 10:12 AM
gamma-BHC (Lindane)	ND		77	µg/Kg	1	6/5/2013 10:12 AM
gamma-Chlordane	ND		77	µg/Kg	1	6/5/2013 10:12 AM
Heptachlor	ND		77	µg/Kg	1	6/5/2013 10:12 AM
Heptachlor epoxide	ND		77	µg/Kg	1	6/5/2013 10:12 AM
Methoxychlor	ND		77	µg/Kg	1	6/5/2013 10:12 AM
Toxaphene	ND		1,500	µg/Kg	1	6/5/2013 10:12 AM
<i>Surr: Decachlorobiphenyl</i>	0		33-143	%REC	1	6/5/2013 10:12 AM
<i>Surr: Tetrachloro-m-xylene</i>	0		39-130	%REC	1	6/5/2013 10:12 AM
HERBICIDES			SW8151		Prep Date: 5/31/2013	Analyst: Microb
2,4,5-T	ND		0.18	mg/Kg	1	6/4/2013 06:16 PM
2,4,5-TP (Silvex)	ND		0.13	mg/Kg	1	6/4/2013 06:16 PM
2,4-D	ND		1.8	mg/Kg	1	6/4/2013 06:16 PM
2,4-DB	ND		1.8	mg/Kg	1	6/4/2013 06:16 PM
Dalapon	ND		4.4	mg/Kg	1	6/4/2013 06:16 PM
Dicamba	ND		0.18	mg/Kg	1	6/4/2013 06:16 PM
Dichlorprop	ND		1.8	mg/Kg	1	6/4/2013 06:16 PM
Dinoseb	ND		0.88	mg/Kg	1	6/4/2013 06:16 PM
MCPA	ND		180	mg/Kg	1	6/4/2013 06:16 PM
MCPP	ND		180	mg/Kg	1	6/4/2013 06:16 PM
Pentachlorophenol	ND		0.18	mg/Kg	1	6/4/2013 06:16 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	0		25-100	%REC	1	6/4/2013 06:16 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 5/28/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
1,2,4-Trichlorobenzene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S35-0709

Lab ID: 1305544-17

Collection Date: 5/22/2013 05:07 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
1,3-Dichlorobenzene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
1,3-Dinitrobenzene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
1,4-Dichlorobenzene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
1-Methylnaphthalene	5,700		2,700	µg/Kg-dry	10	6/1/2013 02:05 AM
1-Naphthylamine	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
2,3,4,6-Tetrachlorophenol	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
2,4,5-Trichlorophenol	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
2,4,6-Trichlorophenol	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
2,4-Dichlorophenol	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
2,4-Dimethylphenol	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
2,4-Dinitrophenol	ND		45,000	µg/Kg-dry	10	6/1/2013 02:05 AM
2,4-Dinitrotoluene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
2,6-Dichlorophenol	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
2,6-Dinitrotoluene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
2-Acetylaminofluorene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
2-Chloronaphthalene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
2-Chlorophenol	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
2-Methylnaphthalene	7,700		2,700	µg/Kg-dry	10	6/1/2013 02:05 AM
2-Methylphenol	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
2-Naphthylamine	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
2-Nitroaniline	ND		45,000	µg/Kg-dry	10	6/1/2013 02:05 AM
2-Nitrophenol	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
2-Picoline	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
3&4-Methylphenol	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
3,3'-Dichlorobenzidine	ND		18,000	µg/Kg-dry	10	6/1/2013 02:05 AM
3-Methylcholanthrene	ND		18,000	µg/Kg-dry	20	6/4/2013 01:32 AM
3-Nitroaniline	ND		45,000	µg/Kg-dry	10	6/1/2013 02:05 AM
4,6-Dinitro-2-methylphenol	ND		45,000	µg/Kg-dry	10	6/1/2013 02:05 AM
4-Aminobiphenyl	ND		18,000	µg/Kg-dry	10	6/1/2013 02:05 AM
4-Bromophenyl phenyl ether	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
4-Chloro-3-methylphenol	ND		18,000	µg/Kg-dry	10	6/1/2013 02:05 AM
4-Chloroaniline	ND		18,000	µg/Kg-dry	10	6/1/2013 02:05 AM
4-Chlorophenyl phenyl ether	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
4-Nitroaniline	ND		18,000	µg/Kg-dry	10	6/1/2013 02:05 AM
4-Nitrophenol	ND		45,000	µg/Kg-dry	10	6/1/2013 02:05 AM
4-Nitroquinoline 1-oxide	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
5-Nitro-o-toluidine	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
7,12-Dimethylbenz(a)anthracene	ND		18,000	µg/Kg-dry	20	6/4/2013 01:32 AM
Acenaphthene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S35-0709

Lab ID: 1305544-17

Collection Date: 5/22/2013 05:07 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Acetophenone	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Aniline	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Anthracene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Azobenzene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Benzidine	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Benzo(a)anthracene	ND		18,000	µg/Kg-dry	20	6/4/2013 01:32 AM
Benzo(a)pyrene	ND		18,000	µg/Kg-dry	20	6/4/2013 01:32 AM
Benzo(b)fluoranthene	ND		18,000	µg/Kg-dry	20	6/4/2013 01:32 AM
Benzo(g,h,i)perylene	ND		18,000	µg/Kg-dry	20	6/4/2013 01:32 AM
Benzo(k)fluoranthene	ND		18,000	µg/Kg-dry	20	6/4/2013 01:32 AM
Benzyl alcohol	ND		18,000	µg/Kg-dry	10	6/1/2013 02:05 AM
Bis(2-chloroethoxy)methane	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Bis(2-chloroethyl)ether	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Bis(2-chloroisopropyl)ether	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Bis(2-ethylhexyl)phthalate	ND		18,000	µg/Kg-dry	20	6/4/2013 01:32 AM
Butyl benzyl phthalate	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Carbazole	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Chrysene	ND		18,000	µg/Kg-dry	20	6/4/2013 01:32 AM
Dibenzo(a,h)anthracene	ND		18,000	µg/Kg-dry	20	6/4/2013 01:32 AM
Dibenzofuran	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Diethyl phthalate	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Dimethyl phthalate	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Di-n-butyl phthalate	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Di-n-octyl phthalate	ND		18,000	µg/Kg-dry	20	6/4/2013 01:32 AM
Dinoseb	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Diphenylamine	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Ethyl methanesulfonate	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Fluoranthene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Fluorene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Hexachlorobenzene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Hexachlorobutadiene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Hexachlorocyclopentadiene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Hexachloroethane	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Indeno(1,2,3-cd)pyrene	ND		8,100	µg/Kg-dry	20	6/4/2013 01:32 AM
Isophorone	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Isosafrole	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Methapyrilene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Methyl methanesulfonate	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Naphthalene	3,400		2,700	µg/Kg-dry	10	6/1/2013 02:05 AM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S35-0709

Lab ID: 1305544-17

Collection Date: 5/22/2013 05:07 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
N-Nitrosodiethylamine	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
N-Nitrosodimethylamine	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
N-Nitroso-di-n-butylamine	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
N-Nitrosodi-n-propylamine	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
N-Nitrosomethylethylamine	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
N-Nitrosomorpholine	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
N-Nitrosopiperidine	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
N-Nitrosopyrrolidine	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
o-Toluidine	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
p-Dimethylaminoazobenzene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Pentachlorobenzene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Pentachloroethane	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Pentachloronitrobenzene	ND		18,000	µg/Kg-dry	10	6/1/2013 02:05 AM
Pentachlorophenol	ND		45,000	µg/Kg-dry	10	6/1/2013 02:05 AM
Phenacetin	ND		18,000	µg/Kg-dry	10	6/1/2013 02:05 AM
Phenanthrene	ND		2,700	µg/Kg-dry	10	6/1/2013 02:05 AM
Phenol	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Pyrene	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Pyridine	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Safrole	ND		8,900	µg/Kg-dry	10	6/1/2013 02:05 AM
Surr: 2,4,6-Tribromophenol	50.6		18-115	%REC	10	6/1/2013 02:05 AM
Surr: 2-Fluorobiphenyl	74.9		30-116	%REC	10	6/1/2013 02:05 AM
Surr: 2-Fluorophenol	57.3		24-105	%REC	10	6/1/2013 02:05 AM
Surr: 4-Terphenyl-d14	49.7		40-127	%REC	10	6/1/2013 02:05 AM
Surr: Nitrobenzene-d5	69.5		32-106	%REC	10	6/1/2013 02:05 AM
Surr: Phenol-d5	53.1		39-123	%REC	10	6/1/2013 02:05 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/31/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
1,1,1-Trichloroethane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
1,1,2,2-Tetrachloroethane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
1,1,2-Trichloroethane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
1,1-Dichloroethane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
1,1-Dichloroethene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
1,1-Dichloropropene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
1,2,3-Trichlorobenzene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
1,2,3-Trichloropropane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
1,2,4-Trichlorobenzene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
1,2,4-Trimethylbenzene	2,900		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
1,2-Dibromo-3-chloropropane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S35-0709

Lab ID: 1305544-17

Collection Date: 5/22/2013 05:07 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
1,2-Dichlorobenzene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
1,2-Dichloroethane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
1,2-Dichloropropane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
1,3,5-Trimethylbenzene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
1,3-Dichlorobenzene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
1,3-Dichloropropane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
1,4-Dichlorobenzene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
2,2-Dichloropropane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
2-Butanone	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
2-Chlorotoluene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
2-Hexanone	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
4-Chlorotoluene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
4-Methyl-2-pentanone	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Acetone	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Benzene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Bromobenzene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Bromochloromethane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Bromodichloromethane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Bromoform	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Bromomethane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Carbon disulfide	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Carbon tetrachloride	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Chlorobenzene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Chloroethane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Chloroform	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Chloromethane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
cis-1,2-Dichloroethene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
cis-1,3-Dichloropropene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Dibromochloromethane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Dibromomethane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Dichlorodifluoromethane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Ethylbenzene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Hexachlorobutadiene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Isopropylbenzene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
m,p-Xylene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Methyl tert-butyl ether	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Methylene chloride	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Naphthalene	2,100		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
n-Butylbenzene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM**Project:** Whirlpool - Green Springs, OH -SWP; PN 60299534**Work Order:** 1305544**Sample ID:** IA#1S35-0709**Lab ID:** 1305544-17**Collection Date:** 5/22/2013 05:07 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
o-Xylene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
p-Isopropyltoluene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
sec-Butylbenzene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Styrene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
tert-Butylbenzene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Tetrachloroethene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Toluene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
trans-1,2-Dichloroethene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
trans-1,3-Dichloropropene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Trichloroethene	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Trichlorofluoromethane	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Vinyl chloride	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
Xylenes, Total	ND		1,700	µg/Kg-dry	125	6/3/2013 03:56 PM
<i>Surr: 4-Bromofluorobenzene</i>	102		62.7-159	%REC	125	6/3/2013 03:56 PM
<i>Surr: Dibromofluoromethane</i>	95.6		88.2-133	%REC	125	6/3/2013 03:56 PM
<i>Surr: Toluene-d8</i>	99.0		81.5-110	%REC	125	6/3/2013 03:56 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S35-0911

Lab ID: 1305544-18

Collection Date: 5/22/2013 05:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		1.6	mg/Kg-dry	10	6/3/2013 10:11 AM
Aroclor 1221	ND		3.1	mg/Kg-dry	10	6/3/2013 10:11 AM
Aroclor 1232	ND		1.6	mg/Kg-dry	10	6/3/2013 10:11 AM
Aroclor 1242	ND		1.6	mg/Kg-dry	10	6/3/2013 10:11 AM
Aroclor 1248	ND		1.6	mg/Kg-dry	10	6/3/2013 10:11 AM
Aroclor 1254	22		1.6	mg/Kg-dry	10	6/3/2013 10:11 AM
Aroclor 1260	ND		1.6	mg/Kg-dry	10	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	117		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	91.0		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	37		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S35-1113

Lab ID: 1305544-19

Collection Date: 5/22/2013 05:31 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.27	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	0.14		0.13	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	95.0		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	87.8		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	26		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S35-1315

Lab ID: 1305544-20

Collection Date: 5/22/2013 05:33 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	0.59		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	112		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	93.6		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	17		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S35-1517.5

Lab ID: 1305544-21

Collection Date: 5/22/2013 05:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	0.41		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	80.6		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	80.8		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S39-0002

Lab ID: 1305544-22

Collection Date: 5/23/2013 07:53 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	91.8		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	106		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S39-0204

Lab ID: 1305544-23

Collection Date: 5/23/2013 07:55 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	0.62		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	92.8		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	101		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	19		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S39-0406

Lab ID: 1305544-24

Collection Date: 5/23/2013 07:57 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		23	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1221	ND		45	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1232	ND		23	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1242	ND		23	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1248	ND		23	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1254	960		23	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1260	ND		23	mg/Kg-dry	100	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	87.2		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	78.4		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	56		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S39-0608

Lab ID: 1305544-25

Collection Date: 5/23/2013 08:05 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		23	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1221	ND		46	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1232	ND		23	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1242	ND		23	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1248	ND		23	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1254	430		23	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1260	ND		23	mg/Kg-dry	100	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	84.0		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	73.4		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	57		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S39-0810

Lab ID: 1305544-26

Collection Date: 5/23/2013 08:07 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		33	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1221	ND		67	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1232	ND		33	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1242	ND		33	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1248	ND		33	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1254	1,800		33	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1260	ND		33	mg/Kg-dry	100	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	93.4		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	73.8		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	70		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S39-1012

Lab ID: 1305544-27

Collection Date: 5/23/2013 08:10 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.26	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	0.49		0.13	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	114		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	74.8		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	23		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S39-1214

Lab ID: 1305544-28

Collection Date: 5/23/2013 08:15 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	ND		0.23	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.23	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	73.8		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	75.4		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S39-1416

Lab ID: 1305544-29

Collection Date: 5/23/2013 08:20 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.58	mg/Kg-dry	5	6/3/2013 10:11 AM
Aroclor 1221	ND		1.2	mg/Kg-dry	5	6/3/2013 10:11 AM
Aroclor 1232	ND		0.58	mg/Kg-dry	5	6/3/2013 10:11 AM
Aroclor 1242	ND		0.58	mg/Kg-dry	5	6/3/2013 10:11 AM
Aroclor 1248	ND		0.58	mg/Kg-dry	5	6/3/2013 10:11 AM
Aroclor 1254	9.9		0.58	mg/Kg-dry	5	6/3/2013 10:11 AM
Aroclor 1260	ND		0.58	mg/Kg-dry	5	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	84.4		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	80.8		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S39-1617

Lab ID: 1305544-30

Collection Date: 5/23/2013 08:38 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	ND		0.23	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.23	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	130		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	81.8		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S42-0002

Lab ID: 1305544-31

Collection Date: 5/23/2013 09:04 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.22	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	1.5		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	121		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	95.4		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	8.6		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S42-0204

Lab ID: 1305544-32

Collection Date: 5/23/2013 09:10 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		13	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1221	ND		27	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1232	ND		13	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1242	ND		13	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1248	ND		13	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1254	140		13	mg/Kg-dry	100	6/3/2013 10:11 AM
Aroclor 1260	ND		13	mg/Kg-dry	100	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	111		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	102		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	25		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S42-0406

Lab ID: 1305544-33

Collection Date: 5/23/2013 09:13 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	0.63		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	91.8		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	91.6		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	17		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S42-0608

Lab ID: 1305544-34

Collection Date: 5/23/2013 09:28 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	0.60		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	103		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	94.4		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S42-0810

Lab ID: 1305544-35

Collection Date: 5/23/2013 09:33 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	0.31		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	82.0		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	78.6		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/30/2013
MERCURY BY CVAA			SW7471A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND	H	0.33	mg/Kg-dry	1	6/26/2013 05:10 PM
METALS BY ICP			SW6010B		Prep Date: 5/28/2013	Analyst: VAW
Aluminum	9,000		580	mg/Kg-dry	1	5/29/2013 04:33 PM
Antimony	ND		3.5	mg/Kg-dry	1	5/29/2013 04:33 PM
Arsenic	130		5.8	mg/Kg-dry	1	5/29/2013 04:33 PM
Barium	89		12	mg/Kg-dry	1	5/29/2013 04:33 PM
Beryllium	ND		0.58	mg/Kg-dry	1	5/29/2013 04:33 PM
Cadmium	ND		1.2	mg/Kg-dry	1	5/29/2013 04:33 PM
Calcium	63,000	E	580	mg/Kg-dry	1	5/29/2013 04:33 PM
Chromium	16		2.3	mg/Kg-dry	1	5/29/2013 04:33 PM
Cobalt	11		5.8	mg/Kg-dry	1	5/29/2013 04:33 PM
Copper	35		5.8	mg/Kg-dry	1	5/29/2013 04:33 PM
Iron	52,000		120	mg/Kg-dry	1	5/29/2013 04:33 PM
Lead	39		5.8	mg/Kg-dry	1	5/29/2013 04:33 PM
Magnesium	11,000		120	mg/Kg-dry	1	5/29/2013 04:33 PM
Manganese	390		5.8	mg/Kg-dry	1	5/29/2013 04:33 PM
Nickel	42		5.8	mg/Kg-dry	1	5/29/2013 04:33 PM
Potassium	1,400		580	mg/Kg-dry	1	5/29/2013 04:33 PM
Selenium	ND		3.5	mg/Kg-dry	1	5/29/2013 04:33 PM
Silver	ND		1.2	mg/Kg-dry	1	5/29/2013 04:33 PM
Sodium	ND		580	mg/Kg-dry	1	5/29/2013 04:33 PM
Thallium	ND		3.5	mg/Kg-dry	1	5/29/2013 04:33 PM
Vanadium	19		5.8	mg/Kg-dry	1	5/29/2013 04:33 PM
Zinc	67		5.8	mg/Kg-dry	1	5/29/2013 04:33 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/30/2013	Analyst: Microb

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S42-0810

Lab ID: 1305544-35

Collection Date: 5/23/2013 09:33 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		1.9	µg/Kg	1	6/5/2013 04:39 AM
4,4'-DDE	ND		1.9	µg/Kg	1	6/5/2013 04:39 AM
4,4'-DDT	ND		1.9	µg/Kg	1	6/5/2013 04:39 AM
Aldrin	ND		1.9	µg/Kg	1	6/5/2013 04:39 AM
alpha-BHC	ND		1.9	µg/Kg	1	6/5/2013 04:39 AM
alpha-Chlordane	ND		1.9	µg/Kg	1	6/5/2013 04:39 AM
beta-BHC	ND		1.9	µg/Kg	1	6/5/2013 04:39 AM
delta-BHC	ND		1.9	µg/Kg	1	6/5/2013 04:39 AM
Dieldrin	ND		1.9	µg/Kg	1	6/5/2013 04:39 AM
Endosulfan I	ND		1.9	µg/Kg	1	6/5/2013 04:39 AM
Endosulfan II	ND		1.9	µg/Kg	1	6/5/2013 04:39 AM
Endosulfan sulfate	ND		1.9	µg/Kg	1	6/5/2013 04:39 AM
Endrin	ND		1.9	µg/Kg	1	6/5/2013 04:39 AM
Endrin aldehyde	ND		1.9	µg/Kg	1	6/5/2013 04:39 AM
Endrin ketone	ND		1.9	µg/Kg	1	6/5/2013 04:39 AM
gamma-BHC (Lindane)	ND		1.9	µg/Kg	1	6/5/2013 04:39 AM
gamma-Chlordane	ND		1.9	µg/Kg	1	6/5/2013 04:39 AM
Heptachlor	ND		1.9	µg/Kg	1	6/5/2013 04:39 AM
Heptachlor epoxide	ND		1.9	µg/Kg	1	6/5/2013 04:39 AM
Methoxychlor	ND		1.9	µg/Kg	1	6/5/2013 04:39 AM
Toxaphene	ND		38	µg/Kg	1	6/5/2013 04:39 AM
<i>Surr: Decachlorobiphenyl</i>	82.6		33-143	%REC	1	6/5/2013 04:39 AM
<i>Surr: Tetrachloro-m-xylene</i>	57.9		39-130	%REC	1	6/5/2013 04:39 AM
HERBICIDES			SW8151		Prep Date: 5/31/2013	Analyst: Microb
2,4,5-T	ND		0.0045	mg/Kg	1	6/4/2013 12:41 PM
2,4,5-TP (Silvex)	ND		0.0034	mg/Kg	1	6/4/2013 12:41 PM
2,4-D	ND		0.045	mg/Kg	1	6/4/2013 12:41 PM
2,4-DB	ND		0.045	mg/Kg	1	6/4/2013 12:41 PM
Dalapon	ND		0.11	mg/Kg	1	6/4/2013 12:41 PM
Dicamba	ND		0.0045	mg/Kg	1	6/4/2013 12:41 PM
Dichlorprop	ND		0.045	mg/Kg	1	6/4/2013 12:41 PM
Dinoseb	ND		0.022	mg/Kg	1	6/4/2013 12:41 PM
MCPA	ND		4.5	mg/Kg	1	6/4/2013 12:41 PM
MCPP	ND		4.5	mg/Kg	1	6/4/2013 12:41 PM
Pentachlorophenol	ND		0.0045	mg/Kg	1	6/4/2013 12:41 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	81.2		25-110	%REC	1	6/4/2013 12:41 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 5/28/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
1,2,4-Trichlorobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S42-0810

Lab ID: 1305544-35

Collection Date: 5/23/2013 09:33 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
1,3-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
1,3-Dinitrobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
1,4-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
1-Methylnaphthalene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
1-Naphthylamine	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
2,3,4,6-Tetrachlorophenol	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
2,4,5-Trichlorophenol	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
2,4,6-Trichlorophenol	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
2,4-Dichlorophenol	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
2,4-Dimethylphenol	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	6/1/2013 12:54 PM
2,4-Dinitrotoluene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
2,6-Dichlorophenol	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
2,6-Dinitrotoluene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
2-Acetylaminofluorene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
2-Chloronaphthalene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
2-Chlorophenol	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
2-Methylnaphthalene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
2-Methylphenol	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
2-Naphthylamine	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	6/1/2013 12:54 PM
2-Nitrophenol	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
2-Picoline	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
3&4-Methylphenol	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
3,3'-Dichlorobenzidine	ND		760	µg/Kg-dry	1	6/1/2013 12:54 PM
3-Methylcholanthrene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	6/1/2013 12:54 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	6/1/2013 12:54 PM
4-Aminobiphenyl	ND		760	µg/Kg-dry	1	6/1/2013 12:54 PM
4-Bromophenyl phenyl ether	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
4-Chloro-3-methylphenol	ND		760	µg/Kg-dry	1	6/1/2013 12:54 PM
4-Chloroaniline	ND		760	µg/Kg-dry	1	6/1/2013 12:54 PM
4-Chlorophenyl phenyl ether	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
4-Nitroaniline	ND		760	µg/Kg-dry	1	6/1/2013 12:54 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	6/1/2013 12:54 PM
4-Nitroquinoline 1-oxide	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
5-Nitro-o-toluidine	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
7,12-Dimethylbenz(a)anthracene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Acenaphthene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S42-0810

Lab ID: 1305544-35

Collection Date: 5/23/2013 09:33 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Acetophenone	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Aniline	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Anthracene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Azobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Benzidine	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Benzo(a)anthracene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Benzo(a)pyrene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Benzo(b)fluoranthene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Benzo(g,h,i)perylene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Benzo(k)fluoranthene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Benzyl alcohol	ND		760	µg/Kg-dry	1	6/1/2013 12:54 PM
Bis(2-chloroethoxy)methane	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Bis(2-chloroethyl)ether	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Bis(2-chloroisopropyl)ether	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Bis(2-ethylhexyl)phthalate	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Butyl benzyl phthalate	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Carbazole	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Chrysene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Dibenzo(a,h)anthracene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Dibenzofuran	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Diethyl phthalate	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Dimethyl phthalate	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Di-n-butyl phthalate	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Di-n-octyl phthalate	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Dinoseb	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Diphenylamine	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Ethyl methanesulfonate	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Fluoranthene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Fluorene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Hexachlorobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Hexachlorobutadiene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Hexachlorocyclopentadiene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Hexachloroethane	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Indeno(1,2,3-cd)pyrene	ND		170	µg/Kg-dry	1	6/1/2013 12:54 PM
Isophorone	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Isosafrole	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Methapyrilene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Methyl methanesulfonate	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Naphthalene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S42-0810

Lab ID: 1305544-35

Collection Date: 5/23/2013 09:33 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
N-Nitrosodiethylamine	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
N-Nitrosodimethylamine	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
N-Nitroso-di-n-butylamine	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
N-Nitrosodi-n-propylamine	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
N-Nitrosomethylethylamine	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
N-Nitrosomorpholine	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
N-Nitrosopiperidine	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
N-Nitrosopyrrolidine	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
o-Toluidine	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
p-Dimethylaminoazobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Pentachlorobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Pentachloroethane	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Pentachloronitrobenzene	ND		760	µg/Kg-dry	1	6/1/2013 12:54 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	6/1/2013 12:54 PM
Phenacetin	ND		760	µg/Kg-dry	1	6/1/2013 12:54 PM
Phenanthrene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Phenol	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Pyrene	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Pyridine	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Safrole	ND		380	µg/Kg-dry	1	6/1/2013 12:54 PM
Surr: 2,4,6-Tribromophenol	54.0		18-115	%REC	1	6/1/2013 12:54 PM
Surr: 2-Fluorobiphenyl	74.8		30-116	%REC	1	6/1/2013 12:54 PM
Surr: 2-Fluorophenol	54.3		24-105	%REC	1	6/1/2013 12:54 PM
Surr: 4-Terphenyl-d14	67.8		40-127	%REC	1	6/1/2013 12:54 PM
Surr: Nitrobenzene-d5	85.2		32-106	%REC	1	6/1/2013 12:54 PM
Surr: Phenol-d5	55.6		39-123	%REC	1	6/1/2013 12:54 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/31/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
1,1,1-Trichloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
1,1,2,2-Tetrachloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
1,1,2-Trichloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
1,1-Dichloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
1,1-Dichloroethene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
1,1-Dichloropropene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
1,2,3-Trichlorobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
1,2,3-Trichloropropane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
1,2,4-Trichlorobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
1,2,4-Trimethylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
1,2-Dibromo-3-chloropropane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S42-0810

Lab ID: 1305544-35

Collection Date: 5/23/2013 09:33 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
1,2-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
1,2-Dichloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
1,2-Dichloropropane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
1,3,5-Trimethylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
1,3-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
1,3-Dichloropropane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
1,4-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
2,2-Dichloropropane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
2-Butanone	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
2-Chlorotoluene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
2-Hexanone	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
4-Chlorotoluene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
4-Methyl-2-pentanone	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Acetone	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Benzene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Bromobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Bromochloromethane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Bromodichloromethane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Bromoform	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Bromomethane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Carbon disulfide	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Carbon tetrachloride	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Chlorobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Chloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Chloroform	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Chloromethane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
cis-1,2-Dichloroethene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
cis-1,3-Dichloropropene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Dibromochloromethane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Dibromomethane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Dichlorodifluoromethane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Ethylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Hexachlorobutadiene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Isopropylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
m,p-Xylene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Methyl tert-butyl ether	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Methylene chloride	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Naphthalene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
n-Butylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S42-0810

Lab ID: 1305544-35

Collection Date: 5/23/2013 09:33 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
o-Xylene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
p-Isopropyltoluene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
sec-Butylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Styrene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
tert-Butylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Tetrachloroethene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Toluene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
trans-1,2-Dichloroethene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
trans-1,3-Dichloropropene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Trichloroethene	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Trichlorofluoromethane	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Vinyl chloride	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
Xylenes, Total	ND		5.8	µg/Kg-dry	1	6/3/2013 01:10 PM
<i>Surr: 4-Bromofluorobenzene</i>	99.9		62.7-159	%REC	1	6/3/2013 01:10 PM
<i>Surr: Dibromofluoromethane</i>	111		88.2-133	%REC	1	6/3/2013 01:10 PM
<i>Surr: Toluene-d8</i>	99.6		81.5-110	%REC	1	6/3/2013 01:10 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S45-0002

Lab ID: 1305544-36

Collection Date: 5/23/2013 09:40 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	1.6		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	87.8		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	86.2		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	12		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S45-0204

Lab ID: 1305544-37

Collection Date: 5/23/2013 09:42 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/30/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1254	3.4		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/3/2013 10:11 AM
Surr: Decachlorobiphenyl	80.8		22-156	%REC	1	6/3/2013 10:11 AM
Surr: Tetrachloro-m-xylene	78.6		34-145	%REC	1	6/3/2013 10:11 AM
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S45-0406

Lab ID: 1305544-38

Collection Date: 5/23/2013 09:44 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.14	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.29	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.14	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.14	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.14	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.14	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.14	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	77.4		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	73.0		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	30		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S45-0608

Lab ID: 1305544-39

Collection Date: 5/23/2013 09:53 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.14	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.27	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.14	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.14	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.14	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.14	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.14	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	88.0		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	77.0		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	27		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S45-0810

Lab ID: 1305544-40

Collection Date: 5/23/2013 09:58 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.26	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	93.4		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	80.6		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	22		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S46-0002

Lab ID: 1305544-41

Collection Date: 5/23/2013 10:41 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1254	0.11		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	88.8		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	85.6		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	11		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S46-0204

Lab ID: 1305544-42

Collection Date: 5/23/2013 10:44 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	88.6		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	87.6		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S46-0406

Lab ID: 1305544-43

Collection Date: 5/23/2013 10:47 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		28	mg/Kg-dry	100	6/3/2013
Aroclor 1221	ND		56	mg/Kg-dry	100	6/3/2013
Aroclor 1232	ND		28	mg/Kg-dry	100	6/3/2013
Aroclor 1242	ND		28	mg/Kg-dry	100	6/3/2013
Aroclor 1248	ND		28	mg/Kg-dry	100	6/3/2013
Aroclor 1254	560		28	mg/Kg-dry	100	6/3/2013
Aroclor 1260	ND		28	mg/Kg-dry	100	6/3/2013
Surr: Decachlorobiphenyl	70.4		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	73.2		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	64		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S46-0608

Lab ID: 1305544-44

Collection Date: 5/23/2013 10:57 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		1.3	mg/Kg-dry	10	6/3/2013
Aroclor 1221	ND		2.6	mg/Kg-dry	10	6/3/2013
Aroclor 1232	ND		1.3	mg/Kg-dry	10	6/3/2013
Aroclor 1242	ND		1.3	mg/Kg-dry	10	6/3/2013
Aroclor 1248	ND		1.3	mg/Kg-dry	10	6/3/2013
Aroclor 1254	35		1.3	mg/Kg-dry	10	6/3/2013
Aroclor 1260	ND		1.3	mg/Kg-dry	10	6/3/2013
Surr: Decachlorobiphenyl	63.2		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	67.8		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	23		0.010	% of sample	1	5/30/2013
MERCURY BY CVAA			SW7471A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND	H	0.36	mg/Kg-dry	1	6/26/2013 05:12 PM
METALS BY ICP			SW6010B		Prep Date: 5/28/2013	Analyst: VAW
Aluminum	6,600		630	mg/Kg-dry	1	5/29/2013 04:39 PM
Antimony	5.3		3.8	mg/Kg-dry	1	5/29/2013 04:39 PM
Arsenic	ND		6.3	mg/Kg-dry	1	5/29/2013 04:39 PM
Barium	2,100		13	mg/Kg-dry	1	5/29/2013 04:39 PM
Beryllium	ND		0.63	mg/Kg-dry	1	5/29/2013 04:39 PM
Cadmium	ND		1.3	mg/Kg-dry	1	5/29/2013 04:39 PM
Calcium	9,200		630	mg/Kg-dry	1	5/29/2013 04:39 PM
Chromium	290		2.5	mg/Kg-dry	1	5/29/2013 04:39 PM
Cobalt	240		6.3	mg/Kg-dry	1	5/29/2013 04:39 PM
Copper	59		6.3	mg/Kg-dry	1	5/29/2013 04:39 PM
Iron	27,000		130	mg/Kg-dry	1	5/29/2013 04:39 PM
Lead	97		6.3	mg/Kg-dry	1	5/29/2013 04:39 PM
Magnesium	4,300		130	mg/Kg-dry	1	5/29/2013 04:39 PM
Manganese	600		6.3	mg/Kg-dry	1	5/29/2013 04:39 PM
Nickel	980		6.3	mg/Kg-dry	1	5/29/2013 04:39 PM
Potassium	2,500		630	mg/Kg-dry	1	5/29/2013 04:39 PM
Selenium	ND		3.8	mg/Kg-dry	1	5/29/2013 04:39 PM
Silver	ND		1.3	mg/Kg-dry	1	5/29/2013 04:39 PM
Sodium	3,800		630	mg/Kg-dry	1	5/29/2013 04:39 PM
Thallium	ND		3.8	mg/Kg-dry	1	5/29/2013 04:39 PM
Vanadium	9.6		6.3	mg/Kg-dry	1	5/29/2013 04:39 PM
Zinc	2,100		6.3	mg/Kg-dry	1	5/29/2013 04:39 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/30/2013	Analyst: Microb

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S46-0608

Lab ID: 1305544-44

Collection Date: 5/23/2013 10:57 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		39	µg/Kg	1	6/5/2013 10:40 AM
4,4'-DDE	ND		39	µg/Kg	1	6/5/2013 10:40 AM
4,4'-DDT	ND		39	µg/Kg	1	6/5/2013 10:40 AM
Aldrin	ND		39	µg/Kg	1	6/5/2013 10:40 AM
alpha-BHC	ND		39	µg/Kg	1	6/5/2013 10:40 AM
alpha-Chlordane	ND		39	µg/Kg	1	6/5/2013 10:40 AM
beta-BHC	ND		39	µg/Kg	1	6/5/2013 10:40 AM
delta-BHC	ND		39	µg/Kg	1	6/5/2013 10:40 AM
Dieldrin	ND		39	µg/Kg	1	6/5/2013 10:40 AM
Endosulfan I	ND		39	µg/Kg	1	6/5/2013 10:40 AM
Endosulfan II	ND		39	µg/Kg	1	6/5/2013 10:40 AM
Endosulfan sulfate	ND		39	µg/Kg	1	6/5/2013 10:40 AM
Endrin	ND		39	µg/Kg	1	6/5/2013 10:40 AM
Endrin aldehyde	ND		39	µg/Kg	1	6/5/2013 10:40 AM
Endrin ketone	ND		39	µg/Kg	1	6/5/2013 10:40 AM
gamma-BHC (Lindane)	ND		39	µg/Kg	1	6/5/2013 10:40 AM
gamma-Chlordane	ND		39	µg/Kg	1	6/5/2013 10:40 AM
Heptachlor	ND		39	µg/Kg	1	6/5/2013 10:40 AM
Heptachlor epoxide	ND		39	µg/Kg	1	6/5/2013 10:40 AM
Methoxychlor	ND		39	µg/Kg	1	6/5/2013 10:40 AM
Toxaphene	ND		790	µg/Kg	1	6/5/2013 10:40 AM
<i>Surr: Decachlorobiphenyl</i>	0		33-143	%REC	1	6/5/2013 10:40 AM
<i>Surr: Tetrachloro-m-xylene</i>	0		39-130	%REC	1	6/5/2013 10:40 AM
HERBICIDES			SW8151		Prep Date: 5/31/2013	Analyst: Microb
2,4,5-T	ND		0.093	mg/Kg	1	6/4/2013 06:42 PM
2,4,5-TP (Silvex)	ND		0.070	mg/Kg	1	6/4/2013 06:42 PM
2,4-D	ND		0.93	mg/Kg	1	6/4/2013 06:42 PM
2,4-DB	ND		0.93	mg/Kg	1	6/4/2013 06:42 PM
Dalapon	ND		2.3	mg/Kg	1	6/4/2013 06:42 PM
Dicamba	ND		0.093	mg/Kg	1	6/4/2013 06:42 PM
Dichlorprop	ND		0.93	mg/Kg	1	6/4/2013 06:42 PM
Dinoseb	ND		0.46	mg/Kg	1	6/4/2013 06:42 PM
MCPA	ND		93	mg/Kg	1	6/4/2013 06:42 PM
MCPP	ND		93	mg/Kg	1	6/4/2013 06:42 PM
Pentachlorophenol	ND		0.093	mg/Kg	1	6/4/2013 06:42 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	0		25-110	%REC	1	6/4/2013 06:42 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 5/31/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
1,2,4-Trichlorobenzene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S46-0608

Lab ID: 1305544-44

Collection Date: 5/23/2013 10:57 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
1,3-Dichlorobenzene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
1,3-Dinitrobenzene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
1,4-Dichlorobenzene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
1-Methylnaphthalene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
1-Naphthylamine	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
2,3,4,6-Tetrachlorophenol	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
2,4,5-Trichlorophenol	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
2,4,6-Trichlorophenol	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
2,4-Dichlorophenol	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
2,4-Dimethylphenol	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
2,4-Dinitrophenol	ND		2,100	µg/Kg-dry	1	5/31/2013 10:33 PM
2,4-Dinitrotoluene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
2,6-Dichlorophenol	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
2,6-Dinitrotoluene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
2-Acetylaminofluorene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
2-Chloronaphthalene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
2-Chlorophenol	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
2-Methylnaphthalene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
2-Methylphenol	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
2-Naphthylamine	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
2-Nitroaniline	ND		2,100	µg/Kg-dry	1	5/31/2013 10:33 PM
2-Nitrophenol	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
2-Picoline	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
3&4-Methylphenol	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
3,3'-Dichlorobenzidine	ND		860	µg/Kg-dry	1	5/31/2013 10:33 PM
3-Methylcholanthrene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
3-Nitroaniline	ND		2,100	µg/Kg-dry	1	5/31/2013 10:33 PM
4,6-Dinitro-2-methylphenol	ND		2,100	µg/Kg-dry	1	5/31/2013 10:33 PM
4-Aminobiphenyl	ND		860	µg/Kg-dry	1	5/31/2013 10:33 PM
4-Bromophenyl phenyl ether	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
4-Chloro-3-methylphenol	ND		860	µg/Kg-dry	1	5/31/2013 10:33 PM
4-Chloroaniline	ND		860	µg/Kg-dry	1	5/31/2013 10:33 PM
4-Chlorophenyl phenyl ether	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
4-Nitroaniline	ND		860	µg/Kg-dry	1	5/31/2013 10:33 PM
4-Nitrophenol	ND		2,100	µg/Kg-dry	1	5/31/2013 10:33 PM
4-Nitroquinoline 1-oxide	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
5-Nitro-o-toluidine	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
7,12-Dimethylbenz(a)anthracene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Acenaphthene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S46-0608

Lab ID: 1305544-44

Collection Date: 5/23/2013 10:57 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Acetophenone	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Aniline	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Anthracene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Azobenzene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Benzidine	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Benzo(a)anthracene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Benzo(a)pyrene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Benzo(b)fluoranthene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Benzo(g,h,i)perylene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Benzo(k)fluoranthene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Benzyl alcohol	ND		860	µg/Kg-dry	1	5/31/2013 10:33 PM
Bis(2-chloroethoxy)methane	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Bis(2-chloroethyl)ether	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Bis(2-chloroisopropyl)ether	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Bis(2-ethylhexyl)phthalate	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Butyl benzyl phthalate	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Carbazole	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Chrysene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Dibenzo(a,h)anthracene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Dibenzofuran	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Diethyl phthalate	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Dimethyl phthalate	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Di-n-butyl phthalate	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Di-n-octyl phthalate	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Dinoseb	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Diphenylamine	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Ethyl methanesulfonate	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Fluoranthene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Fluorene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Hexachlorobenzene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Hexachlorobutadiene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Hexachlorocyclopentadiene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Hexachloroethane	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Indeno(1,2,3-cd)pyrene	ND		190	µg/Kg-dry	1	5/31/2013 10:33 PM
Isophorone	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Isosafrole	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Methapyrilene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Methyl methanesulfonate	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Naphthalene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S46-0608

Lab ID: 1305544-44

Collection Date: 5/23/2013 10:57 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
N-Nitrosodiethylamine	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
N-Nitrosodimethylamine	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
N-Nitroso-di-n-butylamine	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
N-Nitrosodi-n-propylamine	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
N-Nitrosomethylethylamine	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
N-Nitrosomorpholine	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
N-Nitrosopiperidine	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
N-Nitrosopyrrolidine	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
o-Toluidine	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
p-Dimethylaminoazobenzene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Pentachlorobenzene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Pentachloroethane	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Pentachloronitrobenzene	ND		860	µg/Kg-dry	1	5/31/2013 10:33 PM
Pentachlorophenol	ND		2,100	µg/Kg-dry	1	5/31/2013 10:33 PM
Phenacetin	ND		860	µg/Kg-dry	1	5/31/2013 10:33 PM
Phenanthrene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Phenol	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Pyrene	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Pyridine	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Safrole	ND		430	µg/Kg-dry	1	5/31/2013 10:33 PM
Surr: 2,4,6-Tribromophenol	56.0		18-115	%REC	1	5/31/2013 10:33 PM
Surr: 2-Fluorobiphenyl	71.0		30-116	%REC	1	5/31/2013 10:33 PM
Surr: 2-Fluorophenol	33.9		24-105	%REC	1	5/31/2013 10:33 PM
Surr: 4-Terphenyl-d14	54.0		40-127	%REC	1	5/31/2013 10:33 PM
Surr: Nitrobenzene-d5	50.2		32-106	%REC	1	5/31/2013 10:33 PM
Surr: Phenol-d5	41.7		39-123	%REC	1	5/31/2013 10:33 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/31/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
1,1,1-Trichloroethane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
1,1,2,2-Tetrachloroethane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
1,1,2-Trichloroethane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
1,1-Dichloroethane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
1,1-Dichloroethene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
1,1-Dichloropropene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
1,2,3-Trichlorobenzene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
1,2,3-Trichloropropane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
1,2,4-Trichlorobenzene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
1,2,4-Trimethylbenzene	13,000		810	µg/Kg-dry	125	6/3/2013 02:56 PM
1,2-Dibromo-3-chloropropane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S46-0608

Lab ID: 1305544-44

Collection Date: 5/23/2013 10:57 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
1,2-Dichlorobenzene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
1,2-Dichloroethane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
1,2-Dichloropropane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
1,3,5-Trimethylbenzene	2,700		810	µg/Kg-dry	125	6/3/2013 02:56 PM
1,3-Dichlorobenzene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
1,3-Dichloropropane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
1,4-Dichlorobenzene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
2,2-Dichloropropane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
2-Butanone	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
2-Chlorotoluene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
2-Hexanone	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
4-Chlorotoluene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
4-Methyl-2-pentanone	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Acetone	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Benzene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Bromobenzene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Bromochloromethane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Bromodichloromethane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Bromoform	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Bromomethane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Carbon disulfide	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Carbon tetrachloride	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Chlorobenzene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Chloroethane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Chloroform	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Chloromethane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
cis-1,2-Dichloroethene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
cis-1,3-Dichloropropene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Dibromochloromethane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Dibromomethane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Dichlorodifluoromethane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Ethylbenzene	870		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Hexachlorobutadiene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Isopropylbenzene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
m,p-Xylene	3,000		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Methyl tert-butyl ether	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Methylene chloride	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Naphthalene	10,000		810	µg/Kg-dry	125	6/3/2013 02:56 PM
n-Butylbenzene	1,800		810	µg/Kg-dry	125	6/3/2013 02:56 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S46-0608

Lab ID: 1305544-44

Collection Date: 5/23/2013 10:57 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	1,100		810	µg/Kg-dry	125	6/3/2013 02:56 PM
o-Xylene	2,500		810	µg/Kg-dry	125	6/3/2013 02:56 PM
p-Isopropyltoluene	1,100		810	µg/Kg-dry	125	6/3/2013 02:56 PM
sec-Butylbenzene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Styrene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
tert-Butylbenzene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Tetrachloroethene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Toluene	8,900		810	µg/Kg-dry	125	6/3/2013 02:56 PM
trans-1,2-Dichloroethene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
trans-1,3-Dichloropropene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Trichloroethene	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Trichlorofluoromethane	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Vinyl chloride	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
Xylenes, Total	ND		810	µg/Kg-dry	125	6/3/2013 02:56 PM
<i>Surr: 4-Bromofluorobenzene</i>	95.9		62.7-159	%REC	125	6/3/2013 02:56 PM
<i>Surr: Dibromofluoromethane</i>	94.9		88.2-133	%REC	125	6/3/2013 02:56 PM
<i>Surr: Toluene-d8</i>	98.7		81.5-110	%REC	125	6/3/2013 02:56 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S46-0810

Lab ID: 1305544-45

Collection Date: 5/23/2013 11:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	0.71		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	81.8		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	80.6		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	17		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S46-1012.5

Lab ID: 1305544-46

Collection Date: 5/23/2013 11:08 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	90.6		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	86.4		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S47-0002

Lab ID: 1305544-47

Collection Date: 5/23/2013 11:35 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1254	0.23		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	84.6		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	85.2		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	9.9		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S47-0204

Lab ID: 1305544-48

Collection Date: 5/23/2013 11:37 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	0.19		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	81.4		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	84.8		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S47-0406

Lab ID: 1305544-49

Collection Date: 5/23/2013 11:40 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	86.0		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	85.4		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	21		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S47-0608

Lab ID: 1305544-50

Collection Date: 5/23/2013 11:47 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	82.2		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	79.6		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S49-0002

Lab ID: 1305544-51

Collection Date: 5/23/2013 12:58 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	0.97		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	89.4		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	88.4		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S49-0204

Lab ID: 1305544-52

Collection Date: 5/23/2013 01:02 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	85.2		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	88.4		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	17		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S49-0406

Lab ID: 1305544-53

Collection Date: 5/23/2013 01:03 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	48.4		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	111		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	16		0.010	% of sample	1	5/30/2013
MERCURY BY CVAA			SW7471A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND	H	0.35	mg/Kg-dry	1	6/26/2013 05:19 PM
METALS BY ICP			SW6010B		Prep Date: 5/28/2013	Analyst: VAW
Aluminum	11,000		590	mg/Kg-dry	1	5/29/2013 04:57 PM
Antimony	ND		3.5	mg/Kg-dry	1	5/29/2013 04:57 PM
Arsenic	15		5.9	mg/Kg-dry	1	5/29/2013 04:57 PM
Barium	110		12	mg/Kg-dry	1	5/29/2013 04:57 PM
Beryllium	ND		0.59	mg/Kg-dry	1	5/29/2013 04:57 PM
Cadmium	ND		1.2	mg/Kg-dry	1	5/29/2013 04:57 PM
Calcium	5,400		590	mg/Kg-dry	1	5/29/2013 04:57 PM
Chromium	19		2.4	mg/Kg-dry	1	5/29/2013 04:57 PM
Cobalt	10		5.9	mg/Kg-dry	1	5/29/2013 04:57 PM
Copper	17		5.9	mg/Kg-dry	1	5/29/2013 04:57 PM
Iron	29,000		120	mg/Kg-dry	1	5/29/2013 04:57 PM
Lead	11		5.9	mg/Kg-dry	1	5/29/2013 04:57 PM
Magnesium	3,900		120	mg/Kg-dry	1	5/29/2013 04:57 PM
Manganese	800		5.9	mg/Kg-dry	1	5/29/2013 04:57 PM
Nickel	23		5.9	mg/Kg-dry	1	5/29/2013 04:57 PM
Potassium	980		590	mg/Kg-dry	1	5/29/2013 04:57 PM
Selenium	ND		3.5	mg/Kg-dry	1	5/29/2013 04:57 PM
Silver	ND		1.2	mg/Kg-dry	1	5/29/2013 04:57 PM
Sodium	ND		590	mg/Kg-dry	1	5/29/2013 04:57 PM
Thallium	ND		3.5	mg/Kg-dry	1	5/29/2013 04:57 PM
Vanadium	27		5.9	mg/Kg-dry	1	5/29/2013 04:57 PM
Zinc	59		5.9	mg/Kg-dry	1	5/29/2013 04:57 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/30/2013	Analyst: Microb

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S49-0406

Lab ID: 1305544-53

Collection Date: 5/23/2013 01:03 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		2.5	µg/Kg	1	6/5/2013 05:07 AM
4,4'-DDE	ND		2.5	µg/Kg	1	6/5/2013 05:07 AM
4,4'-DDT	ND		2.5	µg/Kg	1	6/5/2013 05:07 AM
Aldrin	ND		2.5	µg/Kg	1	6/5/2013 05:07 AM
alpha-BHC	ND		2.5	µg/Kg	1	6/5/2013 05:07 AM
alpha-Chlordane	ND		2.5	µg/Kg	1	6/5/2013 05:07 AM
beta-BHC	ND		2.5	µg/Kg	1	6/5/2013 05:07 AM
delta-BHC	ND		2.5	µg/Kg	1	6/5/2013 05:07 AM
Dieldrin	ND		2.5	µg/Kg	1	6/5/2013 05:07 AM
Endosulfan I	ND		2.5	µg/Kg	1	6/5/2013 05:07 AM
Endosulfan II	ND		2.5	µg/Kg	1	6/5/2013 05:07 AM
Endosulfan sulfate	ND		2.5	µg/Kg	1	6/5/2013 05:07 AM
Endrin	ND		2.5	µg/Kg	1	6/5/2013 05:07 AM
Endrin aldehyde	ND		2.5	µg/Kg	1	6/5/2013 05:07 AM
Endrin ketone	ND		2.5	µg/Kg	1	6/5/2013 05:07 AM
gamma-BHC (Lindane)	ND		2.5	µg/Kg	1	6/5/2013 05:07 AM
gamma-Chlordane	ND		2.5	µg/Kg	1	6/5/2013 05:07 AM
Heptachlor	ND		2.5	µg/Kg	1	6/5/2013 05:07 AM
Heptachlor epoxide	ND		2.5	µg/Kg	1	6/5/2013 05:07 AM
Methoxychlor	ND		2.5	µg/Kg	1	6/5/2013 05:07 AM
Toxaphene	ND		51	µg/Kg	1	6/5/2013 05:07 AM
<i>Surr: Decachlorobiphenyl</i>	68.1		33-143	%REC	1	6/5/2013 05:07 AM
<i>Surr: Tetrachloro-m-xylene</i>	63.0		39-130	%REC	1	6/5/2013 05:07 AM
HERBICIDES			SW8151		Prep Date: 5/31/2013	Analyst: Microb
2,4,5-T	ND		0.0061	mg/Kg	1	6/4/2013 01:06 PM
2,4,5-TP (Silvex)	ND		0.0046	mg/Kg	1	6/4/2013 01:06 PM
2,4-D	ND		0.061	mg/Kg	1	6/4/2013 01:06 PM
2,4-DB	ND		0.061	mg/Kg	1	6/4/2013 01:06 PM
Dalapon	ND		0.15	mg/Kg	1	6/4/2013 01:06 PM
Dicamba	ND		0.0061	mg/Kg	1	6/4/2013 01:06 PM
Dichlorprop	ND		0.061	mg/Kg	1	6/4/2013 01:06 PM
Dinoseb	ND		0.031	mg/Kg	1	6/4/2013 01:06 PM
MCPA	ND		6.1	mg/Kg	1	6/4/2013 01:06 PM
MCPP	ND		6.1	mg/Kg	1	6/4/2013 01:06 PM
Pentachlorophenol	ND		0.0061	mg/Kg	1	6/4/2013 01:06 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	57.6		25-110	%REC	1	6/4/2013 01:06 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 5/31/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
1,2,4-Trichlorobenzene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S49-0406

Lab ID: 1305544-53

Collection Date: 5/23/2013 01:03 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
1,3-Dichlorobenzene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
1,3-Dinitrobenzene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
1,4-Dichlorobenzene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
1-Methylnaphthalene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
1-Naphthylamine	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
2,3,4,6-Tetrachlorophenol	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
2,4,5-Trichlorophenol	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
2,4,6-Trichlorophenol	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
2,4-Dichlorophenol	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
2,4-Dimethylphenol	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
2,4-Dinitrophenol	ND		2,000	µg/Kg-dry	1	5/31/2013 11:08 PM
2,4-Dinitrotoluene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
2,6-Dichlorophenol	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
2,6-Dinitrotoluene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
2-Acetylaminofluorene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
2-Chloronaphthalene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
2-Chlorophenol	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
2-Methylnaphthalene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
2-Methylphenol	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
2-Naphthylamine	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
2-Nitroaniline	ND		2,000	µg/Kg-dry	1	5/31/2013 11:08 PM
2-Nitrophenol	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
2-Picoline	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
3&4-Methylphenol	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
3,3'-Dichlorobenzidine	ND		790	µg/Kg-dry	1	5/31/2013 11:08 PM
3-Methylcholanthrene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
3-Nitroaniline	ND		2,000	µg/Kg-dry	1	5/31/2013 11:08 PM
4,6-Dinitro-2-methylphenol	ND		2,000	µg/Kg-dry	1	5/31/2013 11:08 PM
4-Aminobiphenyl	ND		790	µg/Kg-dry	1	5/31/2013 11:08 PM
4-Bromophenyl phenyl ether	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
4-Chloro-3-methylphenol	ND		790	µg/Kg-dry	1	5/31/2013 11:08 PM
4-Chloroaniline	ND		790	µg/Kg-dry	1	5/31/2013 11:08 PM
4-Chlorophenyl phenyl ether	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
4-Nitroaniline	ND		790	µg/Kg-dry	1	5/31/2013 11:08 PM
4-Nitrophenol	ND		2,000	µg/Kg-dry	1	5/31/2013 11:08 PM
4-Nitroquinoline 1-oxide	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
5-Nitro-o-toluidine	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
7,12-Dimethylbenz(a)anthracene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Acenaphthene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S49-0406

Lab ID: 1305544-53

Collection Date: 5/23/2013 01:03 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Acetophenone	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Aniline	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Anthracene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Azobenzene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Benzidine	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Benzo(a)anthracene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Benzo(a)pyrene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Benzo(b)fluoranthene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Benzo(g,h,i)perylene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Benzo(k)fluoranthene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Benzyl alcohol	ND		790	µg/Kg-dry	1	5/31/2013 11:08 PM
Bis(2-chloroethoxy)methane	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Bis(2-chloroethyl)ether	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Bis(2-chloroisopropyl)ether	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Bis(2-ethylhexyl)phthalate	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Butyl benzyl phthalate	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Carbazole	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Chrysene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Dibenzo(a,h)anthracene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Dibenzofuran	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Diethyl phthalate	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Dimethyl phthalate	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Di-n-butyl phthalate	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Di-n-octyl phthalate	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Dinoseb	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Diphenylamine	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Ethyl methanesulfonate	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Fluoranthene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Fluorene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Hexachlorobenzene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Hexachlorobutadiene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Hexachlorocyclopentadiene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Hexachloroethane	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Indeno(1,2,3-cd)pyrene	ND		180	µg/Kg-dry	1	5/31/2013 11:08 PM
Isophorone	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Isosafrole	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Methapyrilene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Methyl methanesulfonate	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Naphthalene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S49-0406

Lab ID: 1305544-53

Collection Date: 5/23/2013 01:03 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
N-Nitrosodiethylamine	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
N-Nitrosodimethylamine	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
N-Nitroso-di-n-butylamine	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
N-Nitrosodi-n-propylamine	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
N-Nitrosomethylethylamine	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
N-Nitrosomorpholine	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
N-Nitrosopiperidine	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
N-Nitrosopyrrolidine	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
o-Toluidine	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
p-Dimethylaminoazobenzene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Pentachlorobenzene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Pentachloroethane	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Pentachloronitrobenzene	ND		790	µg/Kg-dry	1	5/31/2013 11:08 PM
Pentachlorophenol	ND		2,000	µg/Kg-dry	1	5/31/2013 11:08 PM
Phenacetin	ND		790	µg/Kg-dry	1	5/31/2013 11:08 PM
Phenanthrene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Phenol	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Pyrene	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Pyridine	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Safrole	ND		390	µg/Kg-dry	1	5/31/2013 11:08 PM
Surr: 2,4,6-Tribromophenol	52.7		18-115	%REC	1	5/31/2013 11:08 PM
Surr: 2-Fluorobiphenyl	73.7		30-116	%REC	1	5/31/2013 11:08 PM
Surr: 2-Fluorophenol	55.1		24-105	%REC	1	5/31/2013 11:08 PM
Surr: 4-Terphenyl-d14	61.4		40-127	%REC	1	5/31/2013 11:08 PM
Surr: Nitrobenzene-d5	82.8		32-106	%REC	1	5/31/2013 11:08 PM
Surr: Phenol-d5	53.4		39-123	%REC	1	5/31/2013 11:08 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/31/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
1,1,1-Trichloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
1,1,2,2-Tetrachloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
1,1,2-Trichloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
1,1-Dichloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
1,1-Dichloroethene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
1,1-Dichloropropene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
1,2,3-Trichlorobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
1,2,3-Trichloropropane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
1,2,4-Trichlorobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
1,2,4-Trimethylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
1,2-Dibromo-3-chloropropane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S49-0406

Lab ID: 1305544-53

Collection Date: 5/23/2013 01:03 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
1,2-Dichlorobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
1,2-Dichloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
1,2-Dichloropropane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
1,3,5-Trimethylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
1,3-Dichlorobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
1,3-Dichloropropane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
1,4-Dichlorobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
2,2-Dichloropropane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
2-Butanone	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
2-Chlorotoluene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
2-Hexanone	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
4-Chlorotoluene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
4-Methyl-2-pentanone	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Acetone	21		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Benzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Bromobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Bromochloromethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Bromodichloromethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Bromoform	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Bromomethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Carbon disulfide	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Carbon tetrachloride	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Chlorobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Chloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Chloroform	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Chloromethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
cis-1,2-Dichloroethene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
cis-1,3-Dichloropropene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Dibromochloromethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Dibromomethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Dichlorodifluoromethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Ethylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Hexachlorobutadiene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Isopropylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
m,p-Xylene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Methyl tert-butyl ether	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Methylene chloride	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Naphthalene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
n-Butylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S49-0406

Lab ID: 1305544-53

Collection Date: 5/23/2013 01:03 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
o-Xylene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
p-Isopropyltoluene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
sec-Butylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Styrene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
tert-Butylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Tetrachloroethene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Toluene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
trans-1,2-Dichloroethene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
trans-1,3-Dichloropropene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Trichloroethene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Trichlorofluoromethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Vinyl chloride	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
Xylenes, Total	ND		4.5	µg/Kg-dry	1	5/31/2013 04:20 PM
<i>Surr: 4-Bromofluorobenzene</i>	102		62.7-159	%REC	1	5/31/2013 04:20 PM
<i>Surr: Dibromofluoromethane</i>	101		88.2-133	%REC	1	5/31/2013 04:20 PM
<i>Surr: Toluene-d8</i>	95.2		81.5-110	%REC	1	5/31/2013 04:20 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S49-0608

Lab ID: 1305544-54

Collection Date: 5/23/2013 01:11 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	88.6		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	85.8		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S49-0810

Lab ID: 1305544-55

Collection Date: 5/23/2013 01:13 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	88.2		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	109		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S47-0810

Lab ID: 1305544-56

Collection Date: 5/23/2013 11:47 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	86.4		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	85.6		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	21		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S47-1012

Lab ID: 1305544-57

Collection Date: 5/23/2013 01:54 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	84.4		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	82.8		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S43-0002

Lab ID: 1305544-58

Collection Date: 5/23/2013 02:14 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1254	3.6		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	81.2		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	81.2		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	12		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S43-0204

Lab ID: 1305544-59

Collection Date: 5/23/2013 02:16 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		1.3	mg/Kg-dry	10	6/3/2013
Aroclor 1221	ND		2.6	mg/Kg-dry	10	6/3/2013
Aroclor 1232	ND		1.3	mg/Kg-dry	10	6/3/2013
Aroclor 1242	ND		1.3	mg/Kg-dry	10	6/3/2013
Aroclor 1248	ND		1.3	mg/Kg-dry	10	6/3/2013
Aroclor 1254	31		1.3	mg/Kg-dry	10	6/3/2013
Aroclor 1260	ND		1.3	mg/Kg-dry	10	6/3/2013
Surr: Decachlorobiphenyl	79.8		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	77.8		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	24		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S43-0406

Lab ID: 1305544-60

Collection Date: 5/23/2013 02:18 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.26	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1254	0.17		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	87.6		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	87.4		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	24		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S43-0608

Lab ID: 1305544-61

Collection Date: 5/23/2013 02:26 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	88.2		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	87.8		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	16		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S43-0810

Lab ID: 1305544-62

Collection Date: 5/23/2013 02:28 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	84.6		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	82.8		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S43-1012

Lab ID: 1305544-63

Collection Date: 5/23/2013 02:42 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	0.12		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	78.6		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	78.6		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S40-0002

Lab ID: 1305544-64

Collection Date: 5/23/2013 03:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	85.2		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	84.6		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S40-0204

Lab ID: 1305544-65

Collection Date: 5/23/2013 03:02 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	82.4		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	79.4		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	17		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S40-0406

Lab ID: 1305544-66

Collection Date: 5/23/2013 03:03 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	79.2		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	77.0		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S40-0608

Lab ID: 1305544-67

Collection Date: 5/23/2013 03:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	85.6		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	80.6		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S40-0810

Lab ID: 1305544-68

Collection Date: 5/23/2013 03:12 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	51.2		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	106		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/30/2013
MERCURY BY CVAA			SW7471A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND	H	0.30	mg/Kg-dry	1	6/26/2013 05:21 PM
METALS BY ICP			SW6010B		Prep Date: 5/28/2013	Analyst: VAW
Aluminum	9,700		570	mg/Kg-dry	1	5/29/2013 05:04 PM
Antimony	ND		3.4	mg/Kg-dry	1	5/29/2013 05:04 PM
Arsenic	12		5.7	mg/Kg-dry	1	5/29/2013 05:04 PM
Barium	61		11	mg/Kg-dry	1	5/29/2013 05:04 PM
Beryllium	ND		0.57	mg/Kg-dry	1	5/29/2013 05:04 PM
Cadmium	ND		1.1	mg/Kg-dry	1	5/29/2013 05:04 PM
Calcium	59,000		570	mg/Kg-dry	1	5/29/2013 05:04 PM
Chromium	17		2.3	mg/Kg-dry	1	5/29/2013 05:04 PM
Cobalt	18		5.7	mg/Kg-dry	1	5/29/2013 05:04 PM
Copper	23		5.7	mg/Kg-dry	1	5/29/2013 05:04 PM
Iron	27,000		110	mg/Kg-dry	1	5/29/2013 05:04 PM
Lead	12		5.7	mg/Kg-dry	1	5/29/2013 05:04 PM
Magnesium	10,000		110	mg/Kg-dry	1	5/29/2013 05:04 PM
Manganese	590		5.7	mg/Kg-dry	1	5/29/2013 05:04 PM
Nickel	39		5.7	mg/Kg-dry	1	5/29/2013 05:04 PM
Potassium	1,400		570	mg/Kg-dry	1	5/29/2013 05:04 PM
Selenium	ND		3.4	mg/Kg-dry	1	5/29/2013 05:04 PM
Silver	ND		1.1	mg/Kg-dry	1	5/29/2013 05:04 PM
Sodium	ND		570	mg/Kg-dry	1	5/29/2013 05:04 PM
Thallium	ND		3.4	mg/Kg-dry	1	5/29/2013 05:04 PM
Vanadium	20		5.7	mg/Kg-dry	1	5/29/2013 05:04 PM
Zinc	67		5.7	mg/Kg-dry	1	5/29/2013 05:04 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/30/2013	Analyst: Microb

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S40-0810

Lab ID: 1305544-68

Collection Date: 5/23/2013 03:12 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		1.9	µg/Kg	1	6/5/2013 05:35 AM
4,4'-DDE	ND		1.9	µg/Kg	1	6/5/2013 05:35 AM
4,4'-DDT	ND		1.9	µg/Kg	1	6/5/2013 05:35 AM
Aldrin	ND		1.9	µg/Kg	1	6/5/2013 05:35 AM
alpha-BHC	ND		1.9	µg/Kg	1	6/5/2013 05:35 AM
alpha-Chlordane	ND		1.9	µg/Kg	1	6/5/2013 05:35 AM
beta-BHC	ND		1.9	µg/Kg	1	6/5/2013 05:35 AM
delta-BHC	ND		1.9	µg/Kg	1	6/5/2013 05:35 AM
Dieldrin	ND		1.9	µg/Kg	1	6/5/2013 05:35 AM
Endosulfan I	ND		1.9	µg/Kg	1	6/5/2013 05:35 AM
Endosulfan II	ND		1.9	µg/Kg	1	6/5/2013 05:35 AM
Endosulfan sulfate	ND		1.9	µg/Kg	1	6/5/2013 05:35 AM
Endrin	ND		1.9	µg/Kg	1	6/5/2013 05:35 AM
Endrin aldehyde	ND		1.9	µg/Kg	1	6/5/2013 05:35 AM
Endrin ketone	ND		1.9	µg/Kg	1	6/5/2013 05:35 AM
gamma-BHC (Lindane)	ND		1.9	µg/Kg	1	6/5/2013 05:35 AM
gamma-Chlordane	ND		1.9	µg/Kg	1	6/5/2013 05:35 AM
Heptachlor	ND		1.9	µg/Kg	1	6/5/2013 05:35 AM
Heptachlor epoxide	ND		1.9	µg/Kg	1	6/5/2013 05:35 AM
Methoxychlor	ND		1.9	µg/Kg	1	6/5/2013 05:35 AM
Toxaphene	ND		38	µg/Kg	1	6/5/2013 05:35 AM
<i>Surr: Decachlorobiphenyl</i>	66.5		33-143	%REC	1	6/5/2013 05:35 AM
<i>Surr: Tetrachloro-m-xylene</i>	52.6		39-130	%REC	1	6/5/2013 05:35 AM

HERBICIDES

SW8151

Prep Date: 5/31/2013

Analyst: Microb

2,4,5-T	ND		0.0044	mg/Kg	1	6/4/2013 01:32 PM
2,4,5-TP (Silvex)	ND		0.0033	mg/Kg	1	6/4/2013 01:32 PM
2,4-D	ND		0.044	mg/Kg	1	6/4/2013 01:32 PM
2,4-DB	ND		0.044	mg/Kg	1	6/4/2013 01:32 PM
Dalapon	ND		0.11	mg/Kg	1	6/4/2013 01:32 PM
Dicamba	ND		0.0044	mg/Kg	1	6/4/2013 01:32 PM
Dichlorprop	ND		0.044	mg/Kg	1	6/4/2013 01:32 PM
Dinoseb	ND		0.022	mg/Kg	1	6/4/2013 01:32 PM
MCPA	ND		4.4	mg/Kg	1	6/4/2013 01:32 PM
MCPP	ND		4.4	mg/Kg	1	6/4/2013 01:32 PM
Pentachlorophenol	ND		0.0044	mg/Kg	1	6/4/2013 01:32 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	94.2		25-110	%REC	1	6/4/2013 01:32 PM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 5/31/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
1,2,4-Trichlorobenzene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S40-0810

Lab ID: 1305544-68

Collection Date: 5/23/2013 03:12 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
1,3-Dichlorobenzene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
1,3-Dinitrobenzene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
1,4-Dichlorobenzene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
1-Methylnaphthalene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
1-Naphthylamine	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
2,3,4,6-Tetrachlorophenol	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
2,4,5-Trichlorophenol	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
2,4,6-Trichlorophenol	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
2,4-Dichlorophenol	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
2,4-Dimethylphenol	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	5/31/2013 11:44 PM
2,4-Dinitrotoluene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
2,6-Dichlorophenol	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
2,6-Dinitrotoluene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
2-Acetylaminofluorene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
2-Chloronaphthalene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
2-Chlorophenol	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
2-Methylnaphthalene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
2-Methylphenol	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
2-Naphthylamine	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/31/2013 11:44 PM
2-Nitrophenol	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
2-Picoline	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
3&4-Methylphenol	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
3,3'-Dichlorobenzidine	ND		760	µg/Kg-dry	1	5/31/2013 11:44 PM
3-Methylcholanthrene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	5/31/2013 11:44 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	5/31/2013 11:44 PM
4-Aminobiphenyl	ND		760	µg/Kg-dry	1	5/31/2013 11:44 PM
4-Bromophenyl phenyl ether	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
4-Chloro-3-methylphenol	ND		760	µg/Kg-dry	1	5/31/2013 11:44 PM
4-Chloroaniline	ND		760	µg/Kg-dry	1	5/31/2013 11:44 PM
4-Chlorophenyl phenyl ether	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
4-Nitroaniline	ND		760	µg/Kg-dry	1	5/31/2013 11:44 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	5/31/2013 11:44 PM
4-Nitroquinoline 1-oxide	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
5-Nitro-o-toluidine	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
7,12-Dimethylbenz(a)anthracene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Acenaphthene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S40-0810

Lab ID: 1305544-68

Collection Date: 5/23/2013 03:12 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Acetophenone	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Aniline	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Anthracene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Azobenzene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Benzidine	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Benzo(a)anthracene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Benzo(a)pyrene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Benzo(b)fluoranthene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Benzo(g,h,i)perylene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Benzo(k)fluoranthene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Benzyl alcohol	ND		760	µg/Kg-dry	1	5/31/2013 11:44 PM
Bis(2-chloroethoxy)methane	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Bis(2-chloroethyl)ether	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Bis(2-chloroisopropyl)ether	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Bis(2-ethylhexyl)phthalate	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Butyl benzyl phthalate	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Carbazole	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Chrysene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Dibenzo(a,h)anthracene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Dibenzofuran	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Diethyl phthalate	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Dimethyl phthalate	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Di-n-butyl phthalate	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Di-n-octyl phthalate	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Dinoseb	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Diphenylamine	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Ethyl methanesulfonate	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Fluoranthene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Fluorene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Hexachlorobenzene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Hexachlorobutadiene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Hexachlorocyclopentadiene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Hexachloroethane	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Indeno(1,2,3-cd)pyrene	ND		170	µg/Kg-dry	1	5/31/2013 11:44 PM
Isophorone	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Isosafrole	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Methapyrilene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Methyl methanesulfonate	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Naphthalene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S40-0810

Lab ID: 1305544-68

Collection Date: 5/23/2013 03:12 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
N-Nitrosodiethylamine	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
N-Nitrosodimethylamine	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
N-Nitroso-di-n-butylamine	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
N-Nitrosodi-n-propylamine	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
N-Nitrosomethylethylamine	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
N-Nitrosomorpholine	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
N-Nitrosopiperidine	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
N-Nitrosopyrrolidine	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
o-Toluidine	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
p-Dimethylaminoazobenzene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Pentachlorobenzene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Pentachloroethane	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Pentachloronitrobenzene	ND		760	µg/Kg-dry	1	5/31/2013 11:44 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	5/31/2013 11:44 PM
Phenacetin	ND		760	µg/Kg-dry	1	5/31/2013 11:44 PM
Phenanthrene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Phenol	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Pyrene	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Pyridine	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Safrole	ND		380	µg/Kg-dry	1	5/31/2013 11:44 PM
Surr: 2,4,6-Tribromophenol	55.7		18-115	%REC	1	5/31/2013 11:44 PM
Surr: 2-Fluorobiphenyl	76.8		30-116	%REC	1	5/31/2013 11:44 PM
Surr: 2-Fluorophenol	57.3		24-105	%REC	1	5/31/2013 11:44 PM
Surr: 4-Terphenyl-d14	64.0		40-127	%REC	1	5/31/2013 11:44 PM
Surr: Nitrobenzene-d5	86.6		32-106	%REC	1	5/31/2013 11:44 PM
Surr: Phenol-d5	54.1		39-123	%REC	1	5/31/2013 11:44 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/31/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
1,1,1-Trichloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
1,1,2,2-Tetrachloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
1,1,2-Trichloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
1,1-Dichloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
1,1-Dichloroethene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
1,1-Dichloropropene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
1,2,3-Trichlorobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
1,2,3-Trichloropropane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
1,2,4-Trichlorobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
1,2,4-Trimethylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
1,2-Dibromo-3-chloropropane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S40-0810

Lab ID: 1305544-68

Collection Date: 5/23/2013 03:12 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
1,2-Dichlorobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
1,2-Dichloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
1,2-Dichloropropane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
1,3,5-Trimethylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
1,3-Dichlorobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
1,3-Dichloropropane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
1,4-Dichlorobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
2,2-Dichloropropane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
2-Butanone	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
2-Chlorotoluene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
2-Hexanone	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
4-Chlorotoluene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
4-Methyl-2-pentanone	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Acetone	6.7		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Benzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Bromobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Bromochloromethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Bromodichloromethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Bromoform	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Bromomethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Carbon disulfide	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Carbon tetrachloride	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Chlorobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Chloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Chloroform	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Chloromethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
cis-1,2-Dichloroethene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
cis-1,3-Dichloropropene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Dibromochloromethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Dibromomethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Dichlorodifluoromethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Ethylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Hexachlorobutadiene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Isopropylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
m,p-Xylene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Methyl tert-butyl ether	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Methylene chloride	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Naphthalene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
n-Butylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S40-0810

Lab ID: 1305544-68

Collection Date: 5/23/2013 03:12 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
o-Xylene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
p-Isopropyltoluene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
sec-Butylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Styrene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
tert-Butylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Tetrachloroethene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Toluene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
trans-1,2-Dichloroethene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
trans-1,3-Dichloropropene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Trichloroethene	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Trichlorofluoromethane	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Vinyl chloride	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
Xylenes, Total	ND		4.5	µg/Kg-dry	1	5/31/2013 04:51 PM
<i>Surr: 4-Bromofluorobenzene</i>	99.7		62.7-159	%REC	1	5/31/2013 04:51 PM
<i>Surr: Dibromofluoromethane</i>	107		88.2-133	%REC	1	5/31/2013 04:51 PM
<i>Surr: Toluene-d8</i>	91.4		81.5-110	%REC	1	5/31/2013 04:51 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S41-0002

Lab ID: 1305544-69

Collection Date: 5/23/2013 03:39 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	83.0		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	79.6		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S41-0204

Lab ID: 1305544-70

Collection Date: 5/23/2013 03:41 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.27	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	87.6		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	83.6		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	26		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S41-0406

Lab ID: 1305544-71

Collection Date: 5/23/2013 03:42 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	87.2		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	96.0		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	17		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S41-0608

Lab ID: 1305544-72

Collection Date: 5/23/2013 03:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	85.6		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	83.4		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S41-0809

Lab ID: 1305544-73

Collection Date: 5/23/2013 03:52 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1254	0.15		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	90.6		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	88.6		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	11		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S38-0002

Lab ID: 1305544-74

Collection Date: 5/23/2013 04:42 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	85.6		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	83.2		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	11		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S38-0204

Lab ID: 1305544-75

Collection Date: 5/23/2013 04:44 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	89.8		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	84.2		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	18		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S38-0406

Lab ID: 1305544-76

Collection Date: 5/23/2013 04:46 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	86.0		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	86.4		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	18		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S38-0608

Lab ID: 1305544-77

Collection Date: 5/23/2013 04:57 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	90.6		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	89.4		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 6/3/2013	Analyst: CTS
Moisture	18		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S38-0810

Lab ID: 1305544-78

Collection Date: 5/23/2013 05:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	88.2		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	85.2		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/30/2013
MERCURY BY CVAA			SW7471A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND	H	0.34	mg/Kg-dry	1	6/26/2013 05:23 PM
METALS BY ICP			SW6010B		Prep Date: 5/28/2013	Analyst: VAW
Aluminum	9,300		560	mg/Kg-dry	1	5/29/2013 05:10 PM
Antimony	ND		3.4	mg/Kg-dry	1	5/29/2013 05:10 PM
Arsenic	11		5.6	mg/Kg-dry	1	5/29/2013 05:10 PM
Barium	82		11	mg/Kg-dry	1	5/29/2013 05:10 PM
Beryllium	ND		0.56	mg/Kg-dry	1	5/29/2013 05:10 PM
Cadmium	ND		1.1	mg/Kg-dry	1	5/29/2013 05:10 PM
Calcium	52,000		560	mg/Kg-dry	1	5/29/2013 05:10 PM
Chromium	16		2.3	mg/Kg-dry	1	5/29/2013 05:10 PM
Cobalt	16		5.6	mg/Kg-dry	1	5/29/2013 05:10 PM
Copper	23		5.6	mg/Kg-dry	1	5/29/2013 05:10 PM
Iron	29,000		110	mg/Kg-dry	1	5/29/2013 05:10 PM
Lead	13		5.6	mg/Kg-dry	1	5/29/2013 05:10 PM
Magnesium	12,000		110	mg/Kg-dry	1	5/29/2013 05:10 PM
Manganese	590		5.6	mg/Kg-dry	1	5/29/2013 05:10 PM
Nickel	37		5.6	mg/Kg-dry	1	5/29/2013 05:10 PM
Potassium	1,400		560	mg/Kg-dry	1	5/29/2013 05:10 PM
Selenium	ND		3.4	mg/Kg-dry	1	5/29/2013 05:10 PM
Silver	ND		1.1	mg/Kg-dry	1	5/29/2013 05:10 PM
Sodium	ND		560	mg/Kg-dry	1	5/29/2013 05:10 PM
Thallium	ND		3.4	mg/Kg-dry	1	5/29/2013 05:10 PM
Vanadium	18		5.6	mg/Kg-dry	1	5/29/2013 05:10 PM
Zinc	73		5.6	mg/Kg-dry	1	5/29/2013 05:10 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/30/2013	Analyst: Microb

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S38-0810

Lab ID: 1305544-78

Collection Date: 5/23/2013 05:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		1.9	µg/Kg	1	6/5/2013 06:03 AM
4,4'-DDE	ND		1.9	µg/Kg	1	6/5/2013 06:03 AM
4,4'-DDT	ND		1.9	µg/Kg	1	6/5/2013 06:03 AM
Aldrin	ND		1.9	µg/Kg	1	6/5/2013 06:03 AM
alpha-BHC	ND		1.9	µg/Kg	1	6/5/2013 06:03 AM
alpha-Chlordane	ND		1.9	µg/Kg	1	6/5/2013 06:03 AM
beta-BHC	ND		1.9	µg/Kg	1	6/5/2013 06:03 AM
delta-BHC	ND		1.9	µg/Kg	1	6/5/2013 06:03 AM
Dieldrin	ND		1.9	µg/Kg	1	6/5/2013 06:03 AM
Endosulfan I	ND		1.9	µg/Kg	1	6/5/2013 06:03 AM
Endosulfan II	ND		1.9	µg/Kg	1	6/5/2013 06:03 AM
Endosulfan sulfate	ND		1.9	µg/Kg	1	6/5/2013 06:03 AM
Endrin	ND		1.9	µg/Kg	1	6/5/2013 06:03 AM
Endrin aldehyde	ND		1.9	µg/Kg	1	6/5/2013 06:03 AM
Endrin ketone	ND		1.9	µg/Kg	1	6/5/2013 06:03 AM
gamma-BHC (Lindane)	ND		1.9	µg/Kg	1	6/5/2013 06:03 AM
gamma-Chlordane	ND		1.9	µg/Kg	1	6/5/2013 06:03 AM
Heptachlor	ND		1.9	µg/Kg	1	6/5/2013 06:03 AM
Heptachlor epoxide	ND		1.9	µg/Kg	1	6/5/2013 06:03 AM
Methoxychlor	ND		1.9	µg/Kg	1	6/5/2013 06:03 AM
Toxaphene	ND		38	µg/Kg	1	6/5/2013 06:03 AM
<i>Surr: Decachlorobiphenyl</i>	58.4		33-143	%REC	1	6/5/2013 06:03 AM
<i>Surr: Tetrachloro-m-xylene</i>	52.9		39-130	%REC	1	6/5/2013 06:03 AM

HERBICIDES

SW8151

Prep Date: 5/31/2013

Analyst: Microb

2,4,5-T	ND		0.0046	mg/Kg	1	6/4/2013 01:58 PM
2,4,5-TP (Silvex)	ND		0.0034	mg/Kg	1	6/4/2013 01:58 PM
2,4-D	ND		0.046	mg/Kg	1	6/4/2013 01:58 PM
2,4-DB	ND		0.046	mg/Kg	1	6/4/2013 01:58 PM
Dalapon	ND		0.12	mg/Kg	1	6/4/2013 01:58 PM
Dicamba	ND		0.0046	mg/Kg	1	6/4/2013 01:58 PM
Dichlorprop	ND		0.046	mg/Kg	1	6/4/2013 01:58 PM
Dinoseb	ND		0.023	mg/Kg	1	6/4/2013 01:58 PM
MCPA	ND		4.6	mg/Kg	1	6/4/2013 01:58 PM
MCPP	ND		4.6	mg/Kg	1	6/4/2013 01:58 PM
Pentachlorophenol	ND		0.0046	mg/Kg	1	6/4/2013 01:58 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	84.8		25-110	%REC	1	6/4/2013 01:58 PM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 5/31/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
1,2,4-Trichlorobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S38-0810

Lab ID: 1305544-78

Collection Date: 5/23/2013 05:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
1,3-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
1,3-Dinitrobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
1,4-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
1-Methylnaphthalene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
1-Naphthylamine	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
2,3,4,6-Tetrachlorophenol	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
2,4,5-Trichlorophenol	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
2,4,6-Trichlorophenol	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
2,4-Dichlorophenol	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
2,4-Dimethylphenol	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	6/1/2013 12:19 PM
2,4-Dinitrotoluene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
2,6-Dichlorophenol	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
2,6-Dinitrotoluene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
2-Acetylaminofluorene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
2-Chloronaphthalene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
2-Chlorophenol	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
2-Methylnaphthalene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
2-Methylphenol	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
2-Naphthylamine	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	6/1/2013 12:19 PM
2-Nitrophenol	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
2-Picoline	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
3&4-Methylphenol	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
3,3'-Dichlorobenzidine	ND		760	µg/Kg-dry	1	6/1/2013 12:19 PM
3-Methylcholanthrene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	6/1/2013 12:19 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	6/1/2013 12:19 PM
4-Aminobiphenyl	ND		760	µg/Kg-dry	1	6/1/2013 12:19 PM
4-Bromophenyl phenyl ether	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
4-Chloro-3-methylphenol	ND		760	µg/Kg-dry	1	6/1/2013 12:19 PM
4-Chloroaniline	ND		760	µg/Kg-dry	1	6/1/2013 12:19 PM
4-Chlorophenyl phenyl ether	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
4-Nitroaniline	ND		760	µg/Kg-dry	1	6/1/2013 12:19 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	6/1/2013 12:19 PM
4-Nitroquinoline 1-oxide	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
5-Nitro-o-toluidine	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
7,12-Dimethylbenz(a)anthracene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Acenaphthene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S38-0810

Lab ID: 1305544-78

Collection Date: 5/23/2013 05:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Acetophenone	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Aniline	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Anthracene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Azobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Benzidine	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Benzo(a)anthracene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Benzo(a)pyrene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Benzo(b)fluoranthene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Benzo(g,h,i)perylene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Benzo(k)fluoranthene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Benzyl alcohol	ND		760	µg/Kg-dry	1	6/1/2013 12:19 PM
Bis(2-chloroethoxy)methane	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Bis(2-chloroethyl)ether	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Bis(2-chloroisopropyl)ether	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Bis(2-ethylhexyl)phthalate	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Butyl benzyl phthalate	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Carbazole	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Chrysene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Dibenzo(a,h)anthracene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Dibenzofuran	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Diethyl phthalate	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Dimethyl phthalate	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Di-n-butyl phthalate	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Di-n-octyl phthalate	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Dinoseb	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Diphenylamine	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Ethyl methanesulfonate	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Fluoranthene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Fluorene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Hexachlorobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Hexachlorobutadiene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Hexachlorocyclopentadiene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Hexachloroethane	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Indeno(1,2,3-cd)pyrene	ND		170	µg/Kg-dry	1	6/1/2013 12:19 PM
Isophorone	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Isosafrole	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Methapyrilene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Methyl methanesulfonate	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Naphthalene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S38-0810

Lab ID: 1305544-78

Collection Date: 5/23/2013 05:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
N-Nitrosodiethylamine	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
N-Nitrosodimethylamine	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
N-Nitroso-di-n-butylamine	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
N-Nitrosodi-n-propylamine	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
N-Nitrosomethylethylamine	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
N-Nitrosomorpholine	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
N-Nitrosopiperidine	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
N-Nitrosopyrrolidine	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
o-Toluidine	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
p-Dimethylaminoazobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Pentachlorobenzene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Pentachloroethane	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Pentachloronitrobenzene	ND		760	µg/Kg-dry	1	6/1/2013 12:19 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	6/1/2013 12:19 PM
Phenacetin	ND		760	µg/Kg-dry	1	6/1/2013 12:19 PM
Phenanthrene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Phenol	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Pyrene	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Pyridine	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Safrole	ND		380	µg/Kg-dry	1	6/1/2013 12:19 PM
Surr: 2,4,6-Tribromophenol	56.2		18-115	%REC	1	6/1/2013 12:19 PM
Surr: 2-Fluorobiphenyl	71.2		30-116	%REC	1	6/1/2013 12:19 PM
Surr: 2-Fluorophenol	54.0		24-105	%REC	1	6/1/2013 12:19 PM
Surr: 4-Terphenyl-d14	60.9		40-127	%REC	1	6/1/2013 12:19 PM
Surr: Nitrobenzene-d5	80.2		32-106	%REC	1	6/1/2013 12:19 PM
Surr: Phenol-d5	52.0		39-123	%REC	1	6/1/2013 12:19 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/31/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
1,1,1-Trichloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
1,1,2,2-Tetrachloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
1,1,2-Trichloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
1,1-Dichloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
1,1-Dichloroethene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
1,1-Dichloropropene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
1,2,3-Trichlorobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
1,2,3-Trichloropropane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
1,2,4-Trichlorobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
1,2,4-Trimethylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
1,2-Dibromo-3-chloropropane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S38-0810

Lab ID: 1305544-78

Collection Date: 5/23/2013 05:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
1,2-Dichlorobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
1,2-Dichloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
1,2-Dichloropropane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
1,3,5-Trimethylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
1,3-Dichlorobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
1,3-Dichloropropane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
1,4-Dichlorobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
2,2-Dichloropropane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
2-Butanone	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
2-Chlorotoluene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
2-Hexanone	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
4-Chlorotoluene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
4-Methyl-2-pentanone	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Acetone	5.1		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Benzene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Bromobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Bromochloromethane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Bromodichloromethane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Bromoform	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Bromomethane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Carbon disulfide	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Carbon tetrachloride	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Chlorobenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Chloroethane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Chloroform	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Chloromethane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
cis-1,2-Dichloroethene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
cis-1,3-Dichloropropene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Dibromochloromethane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Dibromomethane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Dichlorodifluoromethane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Ethylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Hexachlorobutadiene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Isopropylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
m,p-Xylene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Methyl tert-butyl ether	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Methylene chloride	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Naphthalene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
n-Butylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S38-0810

Lab ID: 1305544-78

Collection Date: 5/23/2013 05:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
o-Xylene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
p-Isopropyltoluene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
sec-Butylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Styrene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
tert-Butylbenzene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Tetrachloroethene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Toluene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
trans-1,2-Dichloroethene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
trans-1,3-Dichloropropene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Trichloroethene	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Trichlorofluoromethane	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Vinyl chloride	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
Xylenes, Total	ND		4.5	µg/Kg-dry	1	5/31/2013 05:22 PM
<i>Surr: 4-Bromofluorobenzene</i>	95.3		62.7-159	%REC	1	5/31/2013 05:22 PM
<i>Surr: Dibromofluoromethane</i>	95.0		88.2-133	%REC	1	5/31/2013 05:22 PM
<i>Surr: Toluene-d8</i>	92.6		81.5-110	%REC	1	5/31/2013 05:22 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: Trip Blank

Lab ID: 1305544-79

Collection Date: 5/23/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: LAK
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	5/31/2013 12:08 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	5/31/2013 12:08 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	5/31/2013 12:08 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	5/31/2013 12:08 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	5/31/2013 12:08 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	5/31/2013 12:08 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	5/31/2013 12:08 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	5/31/2013 12:08 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	5/31/2013 12:08 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	5/31/2013 12:08 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	5/31/2013 12:08 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	5/31/2013 12:08 PM
2-Butanone	ND		5.0	µg/L	1	5/31/2013 12:08 PM
2-Chlorotoluene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
2-Hexanone	ND		5.0	µg/L	1	5/31/2013 12:08 PM
4-Chlorotoluene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Acetone	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Benzene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Bromobenzene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Bromochloromethane	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Bromodichloromethane	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Bromoform	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Bromomethane	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Carbon disulfide	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Carbon tetrachloride	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Chlorobenzene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Chloroethane	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Chloroform	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Chloromethane	ND		5.0	µg/L	1	5/31/2013 12:08 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: Trip Blank

Lab ID: 1305544-79

Collection Date: 5/23/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Dibromochloromethane	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Dibromomethane	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Ethylbenzene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Isopropylbenzene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
m,p-Xylene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Methylene chloride	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Naphthalene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
n-Butylbenzene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
n-Propylbenzene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
o-Xylene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
sec-Butylbenzene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Styrene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
tert-Butylbenzene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Tetrachloroethene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Toluene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Trichloroethene	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	5/31/2013 12:08 PM
Vinyl chloride	ND		2.0	µg/L	1	5/31/2013 12:08 PM
Xylenes, Total	ND		5.0	µg/L	1	5/31/2013 12:08 PM
<i>Surr: 4-Bromofluorobenzene</i>	99.6		61-131	%REC	1	5/31/2013 12:08 PM
<i>Surr: Dibromofluoromethane</i>	99.1		87-126	%REC	1	5/31/2013 12:08 PM
<i>Surr: Toluene-d8</i>	104		84-111	%REC	1	5/31/2013 12:08 PM

Note:

ALS Environmental

Date: 26-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305544

Sample ID: IA#1S 45-1012.5

Lab ID: 1305544-80

Collection Date: 5/23/2013 10:08 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/3/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1254	0.23		0.12	mg/Kg-dry	1	6/3/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/3/2013
Surr: Decachlorobiphenyl	86.2		22-156	%REC	1	6/3/2013
Surr: Tetrachloro-m-xylene	81.6		34-145	%REC	1	6/3/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	5/30/2013

Note:

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16908** Instrument ID **GC9** Method: **SW8082**

MBLK		Sample ID MBLK-16908-16908			Units: mg/Kg		Analysis Date: 5/31/2013 02:27 AM			
Client ID:		Run ID: GC9_130529C			SeqNo: 618700		Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
<i>Surr: Decachlorobiphenyl</i>	0.096	0	0.1	0	96	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.091	0	0.1	0	91	34-145	0			

LCS		Sample ID LCS-16908-16908			Units: mg/Kg		Analysis Date: 5/31/2013 02:42 AM			
Client ID:		Run ID: GC9_130529C			SeqNo: 618701		Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.313	0.10	2	0	116	50-133	0			
<i>Surr: Decachlorobiphenyl</i>	0.0988	0	0.1	0	98.8	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0914	0	0.1	0	91.4	34-145	0			

MS		Sample ID 1305544-01Ams			Units: mg/Kg		Analysis Date: 6/3/2013 10:11 AM			
Client ID: IA#1S30-0002		Run ID: GC9_130603A			SeqNo: 620825		Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.023	0.099	1.98	0	102	31-150	0			
<i>Surr: Decachlorobiphenyl</i>	0.1141	0	0.09901	0	115	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.07208	0	0.09901	0	72.8	34-145	0			

MSD		Sample ID 1305544-01Amsd			Units: mg/Kg		Analysis Date: 6/3/2013 10:11 AM			
Client ID: IA#1S30-0002		Run ID: GC9_130603A			SeqNo: 620826		Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.244	0.10	2.008	0	112	31-150	2.023	10.4	53	
<i>Surr: Decachlorobiphenyl</i>	0.1353	0	0.1004	0	135	22-156	0.1141	17.1		
<i>Surr: Tetrachloro-m-xylene</i>	0.08394	0	0.1004	0	83.6	34-145	0.07208	15.2		

The following samples were analyzed in this batch:

1305544-01A	1305544-02A	1305544-03A
1305544-04B	1305544-05A	1305544-06A
1305544-07A	1305544-08A	1305544-09A
1305544-11A	1305544-12A	1305544-13A
1305544-14A	1305544-15A	1305544-16A
1305544-17B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16925** Instrument ID **GC9** Method: **SW8082**

MBLK		Sample ID MBLK-16925-16925			Units: mg/Kg		Analysis Date: 6/3/2013 10:11 AM			
Client ID:		Run ID: GC9_130603A			SeqNo: 620856		Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
<i>Surr: Decachlorobiphenyl</i>	0.1198	0	0.1	0	120	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.08984	0	0.1	0	89.8	34-145	0			

LCS		Sample ID LCS-16925-16925			Units: mg/Kg		Analysis Date: 6/3/2013 10:11 AM			
Client ID:		Run ID: GC9_130603A			SeqNo: 620857		Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.005	0.10	2	0	100	50-133	0			
<i>Surr: Decachlorobiphenyl</i>	0.089	0	0.1	0	89	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0984	0	0.1	0	98.4	34-145	0			

MS		Sample ID 1305544-19Ams			Units: mg/Kg		Analysis Date: 6/3/2013 10:11 AM			
Client ID: IA#1S35-1113		Run ID: GC9_130603A			SeqNo: 620860		Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.179	0.10	2.008	0	109	31-150	0			
<i>Surr: Decachlorobiphenyl</i>	0.1141	0	0.1004	0	114	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.09759	0	0.1004	0	97.2	34-145	0			

MSD		Sample ID 1305544-19Amsd			Units: mg/Kg		Analysis Date: 6/3/2013 10:11 AM			
Client ID: IA#1S35-1113		Run ID: GC9_130603A			SeqNo: 620861		Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.192	0.099	1.988	0	110	31-150	2.179	0.601	53	
<i>Surr: Decachlorobiphenyl</i>	0.09702	0	0.0994	0	97.6	22-156	0.1141	16.1		
<i>Surr: Tetrachloro-m-xylene</i>	0.09543	0	0.0994	0	96	34-145	0.09759	2.24		

The following samples were analyzed in this batch:

1305544-18A	1305544-19A	1305544-20A
1305544-21A	1305544-22A	1305544-23A
1305544-24A	1305544-25A	1305544-26A
1305544-27A	1305544-28A	1305544-29A
1305544-30A	1305544-31A	1305544-32A
1305544-33A	1305544-34A	1305544-35B
1305544-36A	1305544-37A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16954** Instrument ID **GC9** Method: **SW8082**

MBLK		Sample ID MBLK-16954-16954			Units: mg/Kg		Analysis Date: 6/3/2013			
Client ID:		Run ID: GC9_130603B			SeqNo: 620927		Prep Date: 6/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
<i>Surr: Decachlorobiphenyl</i>	0.0876	0	0.1	0	87.6	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0872	0	0.1	0	87.2	34-145	0			

LCS		Sample ID LCS-16954-16954			Units: mg/Kg		Analysis Date: 6/3/2013			
Client ID:		Run ID: GC9_130603B			SeqNo: 620928		Prep Date: 6/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.025	0.10	2	0	101	50-133	0			
<i>Surr: Decachlorobiphenyl</i>	0.094	0	0.1	0	94	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0894	0	0.1	0	89.4	34-145	0			

MS		Sample ID 1305544-40A MS			Units: mg/Kg		Analysis Date: 6/3/2013			
Client ID: IA#1S45-0810		Run ID: GC9_130603B			SeqNo: 620933		Prep Date: 6/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.879	0.10	2	0	93.9	31-150	0			
<i>Surr: Decachlorobiphenyl</i>	0.088	0	0.1	0	88	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0868	0	0.1	0	86.8	34-145	0			

MSD		Sample ID 1305544-40A MSD			Units: mg/Kg		Analysis Date: 6/3/2013			
Client ID: IA#1S45-0810		Run ID: GC9_130603B			SeqNo: 620934		Prep Date: 6/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.853	0.10	2.012	0	92.1	31-150	1.879	1.41	53	
<i>Surr: Decachlorobiphenyl</i>	0.09457	0	0.1006	0	94	22-156	0.088	7.19		
<i>Surr: Tetrachloro-m-xylene</i>	0.08712	0	0.1006	0	86.6	34-145	0.0868	0.371		

The following samples were analyzed in this batch:

1305544-10A	1305544-38A	1305544-39A
1305544-40A	1305544-41A	1305544-42A
1305544-43A	1305544-44B	1305544-45A
1305544-46A	1305544-47A	1305544-48A
1305544-49A	1305544-50A	1305544-51A
1305544-52A	1305544-53B	1305544-68B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16955** Instrument ID **GC9** Method: **SW8082**

MBLK		Sample ID MBLK-16955-16955			Units: mg/Kg		Analysis Date: 6/3/2013			
Client ID:		Run ID: GC9_130603B			SeqNo: 620949		Prep Date: 6/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
<i>Surr: Decachlorobiphenyl</i>	0.0918	0	0.1	0	91.8	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0924	0	0.1	0	92.4	34-145	0			

LCS		Sample ID LCS-16955-16955			Units: mg/Kg		Analysis Date: 6/3/2013			
Client ID:		Run ID: GC9_130603B			SeqNo: 620950		Prep Date: 6/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.149	0.10	2	0	107	50-133	0			
<i>Surr: Decachlorobiphenyl</i>	0.0986	0	0.1	0	98.6	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0916	0	0.1	0	91.6	34-145	0			

The following samples were analyzed in this batch:

1305544-75A	1305544-76A	1305544-77A
1305544-78B	1305544-80A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16958** Instrument ID **GC9** Method: **SW8082**

MBLK		Sample ID MBLK-16958-16958			Units: mg/Kg		Analysis Date: 6/3/2013			
Client ID:		Run ID: GC9_130603B			SeqNo: 620973		Prep Date: 6/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
<i>Surr: Decachlorobiphenyl</i>	0.0886	0	0.1	0	88.6	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0908	0	0.1	0	90.8	34-145	0			

LCS		Sample ID LCS-16958-16958			Units: mg/Kg		Analysis Date: 6/3/2013			
Client ID:		Run ID: GC9_130603B			SeqNo: 620974		Prep Date: 6/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.037	0.10	2	0	102	50-133	0			
<i>Surr: Decachlorobiphenyl</i>	0.0944	0	0.1	0	94.4	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0892	0	0.1	0	89.2	34-145	0			

MS		Sample ID 1305544-64Ams			Units: mg/Kg		Analysis Date: 6/3/2013			
Client ID: IA#1S40-0002		Run ID: GC9_130603B			SeqNo: 620986		Prep Date: 6/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.842	0.10	2.008	0	91.7	31-150	0			
<i>Surr: Decachlorobiphenyl</i>	0.08735	0	0.1004	0	87	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.08193	0	0.1004	0	81.6	34-145	0			

MSD		Sample ID 1305544-64Amsd			Units: mg/Kg		Analysis Date: 6/3/2013			
Client ID: IA#1S40-0002		Run ID: GC9_130603B			SeqNo: 620987		Prep Date: 6/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.853	0.10	1.996	0	92.8	31-150	1.842	0.613	53	
<i>Surr: Decachlorobiphenyl</i>	0.08663	0	0.0998	0	86.8	22-156	0.08735	0.831		
<i>Surr: Tetrachloro-m-xylene</i>	0.08403	0	0.0998	0	84.2	34-145	0.08193	2.54		

The following samples were analyzed in this batch:

1305544-54A	1305544-55A	1305544-56A
1305544-57A	1305544-58A	1305544-59A
1305544-60A	1305544-61A	1305544-62A
1305544-63A	1305544-64A	1305544-65A
1305544-66A	1305544-67A	1305544-69A
1305544-70A	1305544-71A	1305544-72A
1305544-73A	1305544-74A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17400 Instrument ID HG1 Method: SW7471A

MBLK	Sample ID	MBLK-17400-17400				Units: mg/Kg	Analysis Date: 6/26/2013 05:00 PM				
Client ID:		Run ID: HG1_130626A				SeqNo: 636079	Prep Date: 6/26/2013			DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury ND 0.30

LCS	Sample ID	LCS-17400-17400				Units: mg/Kg	Analysis Date: 6/26/2013 04:56 PM				
Client ID:		Run ID: HG1_130626A				SeqNo: 636077	Prep Date: 6/26/2013			DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 1.276 0.30 1.114 0 115 69-147 0

LCSD	Sample ID	LCSD-17400-17400				Units: mg/Kg	Analysis Date: 6/26/2013 04:58 PM				
Client ID:		Run ID: HG1_130626A				SeqNo: 636078	Prep Date: 6/26/2013			DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 1.268 0.30 1.104 0 115 69-147 1.276 0.631 20

MS	Sample ID	1305544-04B MS				Units: mg/Kg	Analysis Date: 6/26/2013 05:04 PM				
Client ID: IA#1S30-0507		Run ID: HG1_130626A				SeqNo: 636081	Prep Date: 6/26/2013			DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.8066 0.29 0.7967 0.009649 100 69-147 0 H

MSD	Sample ID	1305544-04B MSD				Units: mg/Kg	Analysis Date: 6/26/2013 05:06 PM				
Client ID: IA#1S30-0507		Run ID: HG1_130626A				SeqNo: 636082	Prep Date: 6/26/2013			DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.7977 0.29 0.8006 0.009649 98.4 69-147 0.8066 1.11 20 H

The following samples were analyzed in this batch:

1305544-04B	1305544-17B	1305544-35B
1305544-44B	1305544-53B	1305544-68B
1305544-78B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16854** Instrument ID **ICP3** Method: **SW6010B**

MBLK		Sample ID mblk-16854-16854			Units: mg/Kg		Analysis Date: 5/29/2013 03:44 PM			
Client ID:		Run ID: ICP3_130529C			SeqNo: 617581		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500								
Antimony	ND	3.0								
Arsenic	ND	5.0								
Barium	ND	10								
Beryllium	ND	0.50								
Cadmium	ND	1.0								
Calcium	ND	500								
Chromium	ND	2.0								
Cobalt	ND	5.0								
Copper	ND	5.0								
Iron	ND	100								
Lead	ND	5.0								
Magnesium	ND	100								
Manganese	ND	5.0								
Nickel	ND	5.0								
Potassium	ND	500								
Selenium	ND	3.0								
Silver	ND	1.0								
Sodium	ND	500								
Vanadium	ND	5.0								
Zinc	ND	5.0								

MBLK		Sample ID mblk-16854-16854			Units: mg/Kg		Analysis Date: 5/30/2013 11:43 PM			
Client ID:		Run ID: ICP3_130530C			SeqNo: 618487		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	ND	3.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16854** Instrument ID **ICP3** Method: **SW6010B**

LCS		Sample ID ics-16854-16854			Units: mg/Kg		Analysis Date: 5/29/2013 03:50 PM			
Client ID:		Run ID: ICP3_130529C			SeqNo: 617582		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500	100	0	104	80-120	0			
Antimony	95.45	3.0	100	0	95.4	80-120	0			
Arsenic	103	5.0	100	0	103	80-120	0			
Barium	105.3	10	100	0	105	80-120	0			
Beryllium	99.8	0.50	100	0	99.8	80-120	0			
Cadmium	103.6	1.0	100	0	104	80-120	0			
Calcium	ND	500	100	0	102	80-120	0			
Chromium	103	2.0	100	0	103	80-120	0			
Cobalt	101.1	5.0	100	0	101	80-120	0			
Copper	99.33	5.0	100	0	99.3	80-120	0			
Iron	ND	100	100	0	92.2	80-120	0			
Lead	105.2	5.0	100	0	105	80-120	0			
Magnesium	ND	100	100	0	98.4	80-120	0			
Manganese	98.77	5.0	100	0	98.8	80-120	0			
Nickel	101.8	5.0	100	0	102	80-120	0			
Potassium	1027	500	1000	0	103	80-120	0			
Selenium	103.6	3.0	100	0	104	80-120	0			
Silver	104	1.0	100	0	104	80-120	0			
Sodium	ND	500	100	0	106	80-120	0			
Vanadium	99.17	5.0	100	0	99.2	80-120	0			
Zinc	103.4	5.0	100	0	103	80-120	0			

LCS		Sample ID ics-16854-16854			Units: mg/Kg		Analysis Date: 5/30/2013 11:50 PM			
Client ID:		Run ID: ICP3_130530C			SeqNo: 618488		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	101	3.0	100	0	101	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16854** Instrument ID **ICP3** Method: **SW6010B**

LCSD		Sample ID lcsd-16854-16854			Units: mg/Kg		Analysis Date: 5/29/2013 03:56 PM			
Client ID:		Run ID: ICP3_130529C			SeqNo: 617583		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500	100	0	96.7	80-120	104	0	20	
Antimony	95.51	3.0	100	0	95.5	80-120	95.45	0.0628	20	
Arsenic	102.7	5.0	100	0	103	80-120	103	0.292	20	
Barium	105.6	10	100	0	106	80-120	105.3	0.284	20	
Beryllium	100.2	0.50	100	0	100	80-120	99.8	0.4	20	
Cadmium	103.7	1.0	100	0	104	80-120	103.6	0.0965	20	
Calcium	ND	500	100	0	102	80-120	101.5	0	20	
Chromium	102.2	2.0	100	0	102	80-120	103	0.78	20	
Cobalt	101.2	5.0	100	0	101	80-120	101.1	0.0989	20	
Copper	99.11	5.0	100	0	99.1	80-120	99.33	0.222	20	
Iron	ND	100	100	0	91.8	80-120	92.23	0	20	
Lead	105	5.0	100	0	105	80-120	105.2	0.19	20	
Magnesium	100.7	100	100	0	101	80-120	98.44	2.27	20	
Manganese	99.36	5.0	100	0	99.4	80-120	98.77	0.596	20	
Nickel	101.4	5.0	100	0	101	80-120	101.8	0.394	20	
Potassium	1039	500	1000	0	104	80-120	1027	1.16	20	
Selenium	103.2	3.0	100	0	103	80-120	103.6	0.387	20	
Silver	103.6	1.0	100	0	104	80-120	104	0.385	20	
Sodium	ND	500	100	0	106	80-120	106.3	0	20	
Vanadium	99.12	5.0	100	0	99.1	80-120	99.17	0.0504	20	
Zinc	103.2	5.0	100	0	103	80-120	103.4	0.194	20	

LCSD		Sample ID lcsd-16854-16854			Units: mg/Kg		Analysis Date: 5/30/2013 11:56 PM			
Client ID:		Run ID: ICP3_130530C			SeqNo: 618489		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	101.2	3.0	100	0	101	80-120	101	0.198	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16854** Instrument ID **ICP3** Method: **SW6010B**

MS		Sample ID 1305544-04b ms			Units: mg/Kg		Analysis Date: 5/29/2013 04:09 PM			
Client ID: IA#1S30-0507		Run ID: ICP3_130529C			SeqNo: 617585		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	10500	490	98.14	7356	3200	80-120	0			SO
Antimony	75.4	2.9	98.14	0	76.8	75-125	0			
Arsenic	99.71	4.9	98.14	9.03	92.4	75-125	0			
Barium	158.9	9.8	98.14	46.54	114	75-125	0			
Beryllium	95.05	0.49	98.14	0.3737	96.5	75-125	0			
Cadmium	93.4	0.98	98.14	0	95.2	75-125	0			
Calcium	67100	490	98.14	47250	20200	75-125	0			SEO
Chromium	102.6	2.0	98.14	12.13	92.1	75-125	0			
Cobalt	89.74	4.9	98.14	7.568	83.7	75-125	0			
Copper	99.61	4.9	98.14	19.6	81.5	75-125	0			
Iron	18580	98	98.14	19560	-1000	75-125	0			SO
Lead	93.01	4.9	98.14	9.428	85.2	75-125	0			
Magnesium	7511	98	98.14	8269	-772	75-125	0			SO
Manganese	318.7	4.9	98.14	274.1	45.5	75-125	0			S
Nickel	103.6	4.9	98.14	22.02	83.2	75-125	0			
Potassium	2383	490	98.14	805.9	161	75-125	0			S
Selenium	92.97	2.9	98.14	0.9528	93.8	75-125	0			
Silver	93.03	0.98	98.14	0	94.8	75-125	0			
Sodium	ND	490	98.14	83.75	112	75-125	0			
Vanadium	111	4.9	98.14	14.08	98.7	75-125	0			
Zinc	134.3	4.9	98.14	51.74	84.2	75-125	0			

MS		Sample ID 1305544-04b ms			Units: mg/Kg		Analysis Date: 5/31/2013 12:33 AM			
Client ID: IA#1S30-0507		Run ID: ICP3_130530C			SeqNo: 618491		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	76.93	2.9	98.14	0.6045	77.8	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16854** Instrument ID **ICP3** Method: **SW6010B**

MSD		Sample ID 1305544-04b msd			Units: mg/Kg		Analysis Date: 5/29/2013 04:15 PM			
Client ID: IA#1S30-0507		Run ID: ICP3_130529C			SeqNo: 617586		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	9444	500	99.34	7356	2100	75-125	10500	10.6	20	SO
Antimony	78.98	3.0	99.34	0	79.5	75-125	75.4	4.64	20	
Arsenic	102.7	5.0	99.34	9.03	94.3	75-125	99.71	2.98	20	
Barium	159.4	9.9	99.34	46.54	114	75-125	158.9	0.356	20	
Beryllium	95.93	0.50	99.34	0.3737	96.2	75-125	95.05	0.914	20	
Cadmium	94.64	0.99	99.34	0	95.3	75-125	93.4	1.32	20	
Calcium	52830	500	99.34	47250	5620	75-125	67100	23.8	20	SREO
Chromium	103	2.0	99.34	12.13	91.5	75-125	102.6	0.456	20	
Cobalt	91.49	5.0	99.34	7.568	84.5	75-125	89.74	1.92	20	
Copper	103.4	5.0	99.34	19.6	84.4	75-125	99.61	3.75	20	
Iron	19180	99	99.34	19560	-378	75-125	18580	3.21	20	SO
Lead	95.4	5.0	99.34	9.428	86.5	75-125	93.01	2.53	20	
Magnesium	8057	99	99.34	8269	-213	75-125	7511	7.01	20	SO
Manganese	334.1	5.0	99.34	274.1	60.4	75-125	318.7	4.7	20	S
Nickel	105.5	5.0	99.34	22.02	84	75-125	103.6	1.79	20	
Potassium	2170	500	99.34	805.9	137	75-125	2383	9.36	20	S
Selenium	94.13	3.0	99.34	0.9528	93.8	75-125	92.97	1.23	20	
Silver	94.32	0.99	99.34	0	94.9	75-125	93.03	1.37	20	
Sodium	ND	500	99.34	83.75	107	75-125	193.9	0	20	
Vanadium	109.6	5.0	99.34	14.08	96.1	75-125	111	1.28	20	
Zinc	135.3	5.0	99.34	51.74	84.1	75-125	134.3	0.712	20	

MSD		Sample ID 1305544-04b msd			Units: mg/Kg		Analysis Date: 5/31/2013 12:39 AM			
Client ID: IA#1S30-0507		Run ID: ICP3_130530C			SeqNo: 618492		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	78.72	3.0	99.34	0.6045	78.6	75-125	76.93	2.3	20	

The following samples were analyzed in this batch:

1305544-04b	1305544-09a	1305544-17b
1305544-35b	1305544-44b	1305544-53b
1305544-68b	1305544-78b	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99758h** Instrument ID **SUB** Method: **SW8081A**

MBLK	Sample ID	Run ID: SUB_130530D				Units: µg/Kg	Analysis Date: 6/4/2013 09:43 PM			
Client ID:						SeqNo: 626043	Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	1.6								
4,4'-DDE	ND	1.6								
4,4'-DDT	ND	1.6								
Aldrin	ND	1.6								
alpha-BHC	ND	1.6								
alpha-Chlordane	ND	1.6								
beta-BHC	ND	1.6								
delta-BHC	ND	1.6								
Dieldrin	ND	1.6								
Endosulfan I	ND	1.6								
Endosulfan II	ND	1.6								
Endosulfan sulfate	ND	1.6								
Endrin	ND	1.6								
Endrin aldehyde	ND	1.6								
Endrin ketone	ND	1.6								
gamma-BHC (Lindane)	ND	1.6								
gamma-Chlordane	ND	1.6								
Heptachlor	ND	1.6								
Heptachlor epoxide	ND	1.6								
Methoxychlor	ND	1.6								
Toxaphene	ND	33								
<i>Surr: Decachlorobiphenyl</i>	87	0	100	0	87	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	58.9	0	100	0	58.9	39-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99758h** Instrument ID **SUB** Method: **SW8081A**

LCS		Sample ID LCS-R99758h			Units: µg/Kg		Analysis Date: 6/4/2013 10:11 PM			
Client ID:		Run ID: SUB_130530D			SeqNo: 626044		Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	11.6	1.6	16.7	0	69.5	60-110	0			
4,4'-DDE	11.7	1.6	16.7	0	70.1	55-110	0			
4,4'-DDT	13	1.6	16.7	0	77.8	60-115	0			
Aldrin	10.9	1.6	16.7	0	65.3	50-100	0			
alpha-BHC	10.6	1.6	16.7	0	63.5	50-100	0			
alpha-Chlordane	12.4	1.6	16.7	0	74.3	55-105	0			
beta-BHC	11.6	1.6	16.7	0	69.5	50-100	0			
delta-BHC	11.3	1.6	16.7	0	67.7	50-110	0			
Dieldrin	11.7	1.6	16.7	0	70.1	60-110	0			
Endosulfan I	9.01	1.6	16.7	0	54	40-100	0			
Endosulfan II	9.63	1.6	16.7	0	57.7	40-100	0			
Endosulfan sulfate	14.2	1.6	16.7	0	85	45-115	0			
Endrin	10.9	1.6	16.7	0	65.3	55-100	0			
Endrin aldehyde	11.2	1.6	16.7	0	67.1	45-110	0			
Endrin ketone	12.8	1.6	16.7	0	76.6	55-115	0			
gamma-BHC (Lindane)	10.7	1.6	16.7	0	64.1	50-100	0			
gamma-Chlordane	12.3	1.6	16.7	0	73.7	50-110	0			
Heptachlor	12.5	1.6	16.7	0	74.9	50-105	0			
Heptachlor epoxide	12.6	1.6	16.7	0	75.4	55-105	0			
Methoxychlor	14.3	1.6	16.7	0	85.6	60-125	0			
Surr: Decachlorobiphenyl	88.7	0	100	0	88.7	33-143	0			
Surr: Tetrachloro-m-xylene	57.5	0	100	0	57.5	39-130	0			

LCS		Sample ID LCS-R99758h			Units: µg/Kg		Analysis Date: 6/4/2013 10:39 PM			
Client ID:		Run ID: SUB_130530D			SeqNo: 626045		Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Toxaphene	58.8	33	66.7	0	88.2	25-138	0			
Surr: Decachlorobiphenyl	97.2	0	100	0	97.2	33-143	0			
Surr: Tetrachloro-m-xylene	57.1	0	100	0	57.1	39-130	0			

The following samples were analyzed in this batch:

1305544-04C	1305544-17C	1305544-35C
1305544-44C	1305544-53C	1305544-68C
1305544-78C		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99758i** Instrument ID **SUB** Method: **SW8151**

MBLK		Sample ID BLANK-R99758i			Units: µg/Kg		Analysis Date: 6/4/2013 10:58 AM			
Client ID:		Run ID: SUB_130530D			SeqNo: 626365		Prep Date: 5/31/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	ND	4.0								
2,4,5-TP (Silvex)	ND	3.0								
2,4-D	ND	40								
2,4-DB	ND	40								
Dalapon	ND	100								
Dicamba	ND	4.0								
Dichlorprop	ND	40								
Dinoseb	ND	20								
MCPA	ND	4,000								
MCPP	ND	4,000								
Pentachlorophenol	ND	4.0								
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	85.9	0	100	0	85.9	25-110	0			

LCS		Sample ID LCS-R99758i			Units: µg/Kg		Analysis Date: 6/4/2013 11:23 AM			
Client ID:		Run ID: SUB_130530D			SeqNo: 626366		Prep Date: 5/31/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	7.71	4.0	10	0	77.1	25-120	0			
2,4,5-TP (Silvex)	7.37	3.0	10	0	73.7	30-125	0			
2,4-D	63.4	40	100	0	63.4	15-120	0			
2,4-DB	1780	40	100	0	1780	20-125	0			S
Dalapon	142	100	250	0	56.8	10-105	0			
Dicamba	8.42	4.0	10	0	84.2	45-150	0			
Dichlorprop	81.7	40	100	0	81.7	20-130	0			
Dinoseb	38.1	20	50	0	76.2	25-125	0			
MCPA	6480	4,000	10000	0	64.8	10-120	0			
MCPP	6900	4,000	10000	0	69	10-130	0			
Pentachlorophenol	6.39	4.0	10	0	63.9	30-110	0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	101	0	100	0	101	25-110	0			

The following samples were analyzed in this batch:

1305544-04C	1305544-17C	1305544-35C
1305544-44C	1305544-53C	1305544-68C
1305544-78C		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16859** Instrument ID **SVMS2** Method: **SW8270C**

MBLK	Sample ID	MBLK-16859-16859		Units: µg/Kg		Analysis Date: 5/29/2013 05:32 PM				
Client ID:	Run ID:	SVMS2_130529A		SeqNo: 617817		Prep Date: 5/28/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	330								
1,2,4-Trichlorobenzene	ND	330								
1,2-Dichlorobenzene	ND	330								
1,3-Dichlorobenzene	ND	330								
1,3-Dinitrobenzene	ND	330								
1,4-Dichlorobenzene	ND	330								
1-Methylnaphthalene	ND	330								
1-Naphthylamine	ND	330								
2,3,4,6-Tetrachlorophenol	ND	330								
2,4,5-Trichlorophenol	ND	330								
2,4,6-Trichlorophenol	ND	330								
2,4-Dichlorophenol	ND	330								
2,4-Dimethylphenol	ND	330								
2,4-Dinitrophenol	ND	1,600								
2,4-Dinitrotoluene	ND	330								
2,6-Dichlorophenol	ND	330								
2,6-Dinitrotoluene	ND	330								
2-Acetylaminofluorene	ND	330								
2-Chloronaphthalene	ND	330								
2-Chlorophenol	ND	330								
2-Methylnaphthalene	ND	330								
2-Methylphenol	ND	330								
2-Naphthylamine	ND	330								
2-Nitroaniline	ND	1,600								
2-Nitrophenol	ND	330								
2-Picoline	ND	330								
3&4-Methylphenol	ND	330								
3,3'-Dichlorobenzidine	ND	660								
3-Methylcholanthrene	ND	330								
3-Nitroaniline	ND	1,600								
4,6-Dinitro-2-methylphenol	ND	1,600								
4-Aminobiphenyl	ND	660								
4-Bromophenyl phenyl ether	ND	330								
4-Chloro-3-methylphenol	ND	660								
4-Chloroaniline	ND	660								
4-Chlorophenyl phenyl ether	ND	330								
4-Nitroaniline	ND	660								
4-Nitrophenol	ND	1,600								
4-Nitroquinoline 1-oxide	ND	330								
5-Nitro-o-toluidine	ND	330								
7,12-Dimethylbenz(a)anthracene	ND	330								
Acenaphthene	ND	330								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305544
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16859	Instrument ID SVMS2	Method: SW8270C
Acenaphthylene	ND	330
Acetophenone	ND	330
Aniline	ND	330
Anthracene	ND	330
Azobenzene	ND	330
Benzidine	ND	330
Benzo(a)anthracene	ND	330
Benzo(a)pyrene	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(g,h,i)perylene	ND	330
Benzo(k)fluoranthene	ND	330
Benzyl alcohol	ND	660
Bis(2-chloroethoxy)methane	ND	330
Bis(2-chloroethyl)ether	ND	330
Bis(2-chloroisopropyl)ether	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Butyl benzyl phthalate	ND	330
Carbazole	ND	330
Chrysene	ND	330
Dibenzo(a,h)anthracene	ND	330
Dibenzofuran	ND	330
Diethyl phthalate	ND	330
Dimethyl phthalate	ND	330
Di-n-butyl phthalate	ND	330
Di-n-octyl phthalate	ND	330
Dinoseb	ND	330
Diphenylamine	ND	330
Ethyl methanesulfonate	ND	330
Fluoranthene	ND	330
Fluorene	ND	330
Hexachlorobenzene	ND	330
Hexachlorobutadiene	ND	330
Hexachlorocyclopentadiene	ND	330
Hexachloroethane	ND	330
Indeno(1,2,3-cd)pyrene	ND	150
Isophorone	ND	330
Isosafrole	ND	330
Methapyrilene	ND	330
Methyl methanesulfonate	ND	330
Naphthalene	ND	330
Nitrobenzene	ND	330
N-Nitrosodiethylamine	ND	330
N-Nitrosodimethylamine	ND	330
N-Nitroso-di-n-butylamine	ND	330
N-Nitrosodi-n-propylamine	ND	330
N-Nitrosomethylethylamine	ND	330
N-Nitrosomorpholine	ND	330
N-Nitrosopiperidine	ND	330

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305544
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16859	Instrument ID SVMS2	Method: SW8270C					
N-Nitrosopyrrolidine	ND	330					
o-Toluidine	ND	330					
p-Dimethylaminoazobenzene	ND	330					
Pentachlorobenzene	ND	330					
Pentachloroethane	ND	330					
Pentachloronitrobenzene	ND	660					
Pentachlorophenol	ND	1,600					
Phenacetin	ND	660					
Phenanthrene	ND	330					
Phenol	ND	330					
Pyrene	ND	330					
Pyridine	ND	330					
Safrole	ND	330					
<i>Surr: 2,4,6-Tribromophenol</i>	2706	0	3330	0	81.3	18-115	0
<i>Surr: 2-Fluorobiphenyl</i>	1350	0	1670	0	80.8	30-116	0
<i>Surr: 2-Fluorophenol</i>	2337	0	3330	0	70.2	24-105	0
<i>Surr: 4-Terphenyl-d14</i>	1303	0	1670	0	78	40-127	0
<i>Surr: Nitrobenzene-d5</i>	1636	0	1670	0	97.9	32-106	0
<i>Surr: Phenol-d5</i>	2594	0	3330	0	77.9	39-123	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16859** Instrument ID **SVMS2** Method: **SW8270C**

LCS		Sample ID LCS-16859-16859			Units: µg/Kg		Analysis Date: 5/29/2013 06:08 PM			
Client ID:		Run ID: SVMS2_130529A			SeqNo: 617818		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1267	330	1670	0	75.9	48.1-106	0			
1,4-Dichlorobenzene	1165	330	1670	0	69.7	55.5-89.4	0			
2,4-Dinitrotoluene	1472	330	1670	0	88.2	58.8-123	0			
2-Chlorophenol	1496	330	1670	0	89.6	34.7-116	0			
4-Chloro-3-methylphenol	1537	660	1670	0	92.1	32.1-109	0			
4-Nitrophenol	1666	1,600	1670	0	99.8	36.2-146	0			
Acenaphthene	1275	330	1670	0	76.4	67.8-104	0			
Acenaphthylene	1256	330	1670	0	75.2	65.6-103	0			
Anthracene	1314	330	1670	0	78.7	71.1-107	0			
Benzo(a)anthracene	1250	330	1670	0	74.8	60.4-118	0			
Benzo(a)pyrene	1447	330	1670	0	86.6	73.7-110	0			
Benzo(b)fluoranthene	1354	330	1670	0	81.1	59.9-94.8	0			
Benzo(g,h,i)perylene	1472	330	1670	0	88.2	40-129	0			
Benzo(k)fluoranthene	1436	330	1670	0	86	75.7-130	0			
Carbazole	1767	330	1670	0	106	69.6-107	0			
Chrysene	1228	330	1670	0	73.5	62.3-115	0			
Dibenzo(a,h)anthracene	1503	330	1670	0	90	59.2-121	0			
Fluoranthene	1388	330	1670	0	83.1	63-120	0			
Fluorene	1257	330	1670	0	75.2	69-106	0			
Indeno(1,2,3-cd)pyrene	1531	150	1670	0	91.7	59-110	0			
Naphthalene	1268	330	1670	0	75.9	49.1-103	0			
N-Nitrosodi-n-propylamine	1465	330	1670	0	87.7	25.3-127	0			
Pentachlorophenol	ND	1,600	1670	0	91	22.1-105	0			
Phenanthrene	1319	330	1670	0	79	70-112	0			
Phenol	1206	330	1670	0	72.2	36.9-97.8	0			
Pyrene	1292	330	1670	0	77.3	55-117	0			
<i>Surr: 2,4,6-Tribromophenol</i>	2426	0	3330	0	72.9	18-115	0			
<i>Surr: 2-Fluorobiphenyl</i>	1276	0	1670	0	76.4	30-116	0			
<i>Surr: 2-Fluorophenol</i>	2801	0	3330	0	84.1	24-105	0			
<i>Surr: 4-Terphenyl-d14</i>	1150	0	1670	0	68.9	40-127	0			
<i>Surr: Nitrobenzene-d5</i>	1355	0	1670	0	81.2	32-106	0			
<i>Surr: Phenol-d5</i>	2547	0	3330	0	76.5	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16859** Instrument ID **SVMS2** Method: **SW8270C**

MS		Sample ID 1305495-50bms			Units: µg/Kg		Analysis Date: 5/29/2013 06:43 PM			
Client ID:		Run ID: SVMS2_130529A			SeqNo: 617819		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1182	330	1667	0	70.9	50.6-92	0			
1,4-Dichlorobenzene	1102	330	1667	0	66.1	40.1-84.3	0			
2,4-Dinitrotoluene	1421	330	1667	0	85.2	50.3-127	0			
2-Chlorophenol	1392	330	1667	0	83.5	33.3-109	0			
4-Chloro-3-methylphenol	1530	660	1667	0	91.8	35.8-116	0			
4-Nitrophenol	1641	1,600	1667	0	98.4	38.7-135	0			
Acenaphthene	1203	330	1667	0	72.1	54.1-109	0			
Acenaphthylene	1185	330	1667	0	71.1	55.3-118	0			
Anthracene	1230	330	1667	0	73.8	51-106	0			
Benzo(a)anthracene	1236	330	1667	0	74.1	31.6-128	0			
Benzo(a)pyrene	1332	330	1667	0	79.9	66.1-109	0			
Benzo(b)fluoranthene	1237	330	1667	0	74.2	56.8-87.8	0			
Benzo(g,h,i)perylene	1253	330	1667	0	75.2	37.7-113	0			
Benzo(k)fluoranthene	1411	330	1667	0	84.7	57-119	0			
Carbazole	1700	330	1667	0	102	28.5-114	0			
Chrysene	1269	330	1667	0	76.1	46.3-104	0			
Dibenzo(a,h)anthracene	1256	330	1667	0	75.3	48.8-123	0			
Fluoranthene	1305	330	1667	0	78.3	52-120	0			
Fluorene	1219	330	1667	0	73.1	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1249	150	1667	0	74.9	56.1-118	0			
Naphthalene	1178	330	1667	0	70.6	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1377	330	1667	0	82.6	46.5-116	0			
Pentachlorophenol	ND	1,600	1667	0	93.1	28.9-156	0			
Phenanthrene	1247	330	1667	0	74.8	52-105	0			
Phenol	1135	330	1667	0	68.1	25.9-90.3	0			
Pyrene	1242	330	1667	0	74.5	51-111	0			
<i>Surr: 2,4,6-Tribromophenol</i>	2280	0	3324	0	68.6	18-115	0			
<i>Surr: 2-Fluorobiphenyl</i>	1176	0	1667	0	70.6	30-116	0			
<i>Surr: 2-Fluorophenol</i>	2557	0	3324	0	76.9	24-105	0			
<i>Surr: 4-Terphenyl-d14</i>	1066	0	1667	0	64	40-127	0			
<i>Surr: Nitrobenzene-d5</i>	1283	0	1667	0	76.9	32-106	0			
<i>Surr: Phenol-d5</i>	2383	0	3324	0	71.7	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16859** Instrument ID **SVMS2** Method: **SW8270C**

MSD		Sample ID 1305495-50bmsd			Units: µg/Kg		Analysis Date: 5/29/2013 07:21 PM			
Client ID:		Run ID: SVMS2_130529A			SeqNo: 617820		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1148	330	1665	0	69	50.6-92	1182	2.9	18	
1,4-Dichlorobenzene	1061	330	1665	0	63.8	40.1-84.3	1102	3.73	20	
2,4-Dinitrotoluene	1330	330	1665	0	79.9	50.3-127	1421	6.59	20	
2-Chlorophenol	1372	330	1665	0	82.4	33.3-109	1392	1.46	20	
4-Chloro-3-methylphenol	1415	660	1665	0	85	35.8-116	1530	7.77	20	
4-Nitrophenol	ND	1,600	1665	0	86	38.7-135	1641	0	20	
Acenaphthene	1161	330	1665	0	69.7	54.1-109	1203	3.57	20	
Acenaphthylene	1149	330	1665	0	69	55.3-118	1185	3.12	20	
Anthracene	1173	330	1665	0	70.5	51-106	1230	4.67	20	
Benzo(a)anthracene	1071	330	1665	0	64.3	31.6-128	1236	14.3	20	
Benzo(a)pyrene	1257	330	1665	0	75.5	66.1-109	1332	5.78	20	
Benzo(b)fluoranthene	1221	330	1665	0	73.4	56.8-87.8	1237	1.3	20	
Benzo(g,h,i)perylene	1196	330	1665	0	71.8	37.7-113	1253	4.7	20	
Benzo(k)fluoranthene	1298	330	1665	0	77.9	57-119	1411	8.38	20	
Carbazole	1668	330	1665	0	100	28.5-114	1700	1.89	20	
Chrysene	1084	330	1665	0	65.1	46.3-104	1269	15.7	21	
Dibenzo(a,h)anthracene	1216	330	1665	0	73.1	48.8-123	1256	3.17	20	
Fluoranthene	1259	330	1665	0	75.6	52-120	1305	3.56	20	
Fluorene	1150	330	1665	0	69	54.8-113	1219	5.83	20	
Indeno(1,2,3-cd)pyrene	1216	150	1665	0	73	56.1-118	1249	2.64	20	
Naphthalene	1140	330	1665	0	68.4	51.1-99.3	1178	3.29	20	
N-Nitrosodi-n-propylamine	1331	330	1665	0	80	46.5-116	1377	3.4	17	
Pentachlorophenol	ND	1,600	1665	0	90.8	28.9-156	1552	0	20	
Phenanthrene	1188	330	1665	0	71.4	52-105	1247	4.83	20	
Phenol	1103	330	1665	0	66.2	25.9-90.3	1135	2.87	17	
Pyrene	1206	330	1665	0	72.4	51-111	1242	2.93	20	
<i>Surr: 2,4,6-Tribromophenol</i>	2241	0	3320	0	67.5	18-115	2280	1.69		
<i>Surr: 2-Fluorobiphenyl</i>	1150	0	1665	0	69.1	30-116	1176	2.25		
<i>Surr: 2-Fluorophenol</i>	2469	0	3320	0	74.4	24-105	2557	3.53		
<i>Surr: 4-Terphenyl-d14</i>	1062	0	1665	0	63.8	40-127	1066	0.383		
<i>Surr: Nitrobenzene-d5</i>	1223	0	1665	0	73.4	32-106	1283	4.78		
<i>Surr: Phenol-d5</i>	2279	0	3320	0	68.6	39-123	2383	4.44		

The following samples were analyzed in this batch:

1305544-04b	1305544-17B	1305544-35b
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16935** Instrument ID **SVMS2** Method: **SW8270C**

MBLK	Sample ID	MBLK-16935-16935		Units: µg/Kg		Analysis Date: 5/31/2013 08:10 PM				
Client ID:	Run ID:	SVMS2_130531A		SeqNo: 619488		Prep Date: 5/31/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	330								
1,2,4-Trichlorobenzene	ND	330								
1,2-Dichlorobenzene	ND	330								
1,3-Dichlorobenzene	ND	330								
1,3-Dinitrobenzene	ND	330								
1,4-Dichlorobenzene	ND	330								
1-Methylnaphthalene	ND	330								
1-Naphthylamine	ND	330								
2,3,4,6-Tetrachlorophenol	ND	330								
2,4,5-Trichlorophenol	ND	330								
2,4,6-Trichlorophenol	ND	330								
2,4-Dichlorophenol	ND	330								
2,4-Dimethylphenol	ND	330								
2,4-Dinitrophenol	ND	1,600								
2,4-Dinitrotoluene	ND	330								
2,6-Dichlorophenol	ND	330								
2,6-Dinitrotoluene	ND	330								
2-Acetylamino fluorene	ND	330								
2-Chloronaphthalene	ND	330								
2-Chlorophenol	ND	330								
2-Methylnaphthalene	ND	330								
2-Methylphenol	ND	330								
2-Naphthylamine	ND	330								
2-Nitroaniline	ND	1,600								
2-Nitrophenol	ND	330								
2-Picoline	ND	330								
3&4-Methylphenol	ND	330								
3,3'-Dichlorobenzidine	ND	660								
3-Methylcholanthrene	ND	330								
3-Nitroaniline	ND	1,600								
4,6-Dinitro-2-methylphenol	ND	1,600								
4-Aminobiphenyl	ND	660								
4-Bromophenyl phenyl ether	ND	330								
4-Chloro-3-methylphenol	ND	660								
4-Chloroaniline	ND	660								
4-Chlorophenyl phenyl ether	ND	330								
4-Nitroaniline	ND	660								
4-Nitrophenol	ND	1,600								
4-Nitroquinoline 1-oxide	ND	330								
5-Nitro-o-toluidine	ND	330								
7,12-Dimethylbenz(a)anthracene	ND	330								
Acenaphthene	ND	330								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305544
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16935	Instrument ID SVMS2	Method: SW8270C
Acenaphthylene	ND	330
Acetophenone	ND	330
Aniline	ND	330
Anthracene	ND	330
Azobenzene	ND	330
Benzidine	ND	330
Benzo(a)anthracene	ND	330
Benzo(a)pyrene	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(g,h,i)perylene	ND	330
Benzo(k)fluoranthene	ND	330
Benzyl alcohol	ND	660
Bis(2-chloroethoxy)methane	ND	330
Bis(2-chloroethyl)ether	ND	330
Bis(2-chloroisopropyl)ether	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Butyl benzyl phthalate	ND	330
Carbazole	ND	330
Chrysene	ND	330
Dibenzo(a,h)anthracene	ND	330
Dibenzofuran	ND	330
Diethyl phthalate	ND	330
Dimethyl phthalate	ND	330
Di-n-butyl phthalate	ND	330
Di-n-octyl phthalate	ND	330
Dinoseb	ND	330
Diphenylamine	ND	330
Ethyl methanesulfonate	ND	330
Fluoranthene	ND	330
Fluorene	ND	330
Hexachlorobenzene	ND	330
Hexachlorobutadiene	ND	330
Hexachlorocyclopentadiene	ND	330
Hexachloroethane	ND	330
Indeno(1,2,3-cd)pyrene	ND	150
Isophorone	ND	330
Isosafrole	ND	330
Methapyrilene	ND	330
Methyl methanesulfonate	ND	330
Naphthalene	ND	330
Nitrobenzene	ND	330
N-Nitrosodiethylamine	ND	330
N-Nitrosodimethylamine	ND	330
N-Nitroso-di-n-butylamine	ND	330
N-Nitrosodi-n-propylamine	ND	330
N-Nitrosomethylethylamine	ND	330
N-Nitrosomorpholine	ND	330
N-Nitrosopiperidine	ND	330

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305544
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16935	Instrument ID SVMS2	Method: SW8270C						
N-Nitrosopyrrolidine	ND	330						
o-Toluidine	ND	330						
p-Dimethylaminoazobenzene	ND	330						
Pentachlorobenzene	ND	330						
Pentachloroethane	ND	330						
Pentachloronitrobenzene	ND	660						
Pentachlorophenol	ND	1,600						
Phenacetin	ND	660						
Phenanthrene	ND	330						
Phenol	ND	330						
Pyrene	ND	330						
Pyridine	ND	330						
Safrole	ND	330						
<i>Surr: 2,4,6-Tribromophenol</i>	2653	0	3330	0	79.7	18-115	0	
<i>Surr: 2-Fluorobiphenyl</i>	1361	0	1670	0	81.5	30-116	0	
<i>Surr: 2-Fluorophenol</i>	2146	0	3330	0	64.4	24-105	0	
<i>Surr: 4-Terphenyl-d14</i>	1239	0	1670	0	74.2	40-127	0	
<i>Surr: Nitrobenzene-d5</i>	1610	0	1670	0	96.4	32-106	0	
<i>Surr: Phenol-d5</i>	2634	0	3330	0	79.1	39-123	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16935** Instrument ID **SVMS2** Method: **SW8270C**

LCS		Sample ID LCS-16935-16935			Units: µg/Kg		Analysis Date: 5/31/2013 08:46 PM			
Client ID:		Run ID: SVMS2_130531A			SeqNo: 619489		Prep Date: 5/31/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1340	330	1670	0	80.2	48.1-106	0			
1,4-Dichlorobenzene	1303	330	1670	0	78	55.5-89.4	0			
2,4-Dinitrotoluene	1461	330	1670	0	87.5	58.8-123	0			
2-Chlorophenol	1221	330	1670	0	73.1	34.7-116	0			
4-Chloro-3-methylphenol	1496	660	1670	0	89.6	32.1-109	0			
4-Nitrophenol	1778	1,600	1670	0	106	36.2-146	0			
Acenaphthene	1376	330	1670	0	82.4	67.8-104	0			
Acenaphthylene	1381	330	1670	0	82.7	65.6-103	0			
Anthracene	1389	330	1670	0	83.2	71.1-107	0			
Benzo(a)anthracene	1380	330	1670	0	82.6	60.4-118	0			
Benzo(a)pyrene	1611	330	1670	0	96.4	73.7-110	0			
Benzo(b)fluoranthene	1412	330	1670	0	84.5	59.9-94.8	0			
Benzo(g,h,i)perylene	1808	330	1670	0	108	40-129	0			
Benzo(k)fluoranthene	1499	330	1670	0	89.7	75.7-130	0			
Carbazole	1747	330	1670	0	105	69.6-107	0			
Chrysene	1362	330	1670	0	81.6	62.3-115	0			
Dibenzo(a,h)anthracene	1680	330	1670	0	101	59.2-121	0			
Fluoranthene	1548	330	1670	0	92.7	63-120	0			
Fluorene	1408	330	1670	0	84.3	69-106	0			
Indeno(1,2,3-cd)pyrene	1800	150	1670	0	108	59-110	0			
Naphthalene	1334	330	1670	0	79.9	49.1-103	0			
N-Nitrosodi-n-propylamine	1497	330	1670	0	89.6	25.3-127	0			
Pentachlorophenol	1730	1,600	1670	0	104	22.1-105	0			
Phenanthrene	1399	330	1670	0	83.8	70-112	0			
Phenol	1263	330	1670	0	75.6	36.9-97.8	0			
Pyrene	1468	330	1670	0	87.9	55-117	0			
<i>Surr: 2,4,6-Tribromophenol</i>	2587	0	3330	0	77.7	18-115	0			
<i>Surr: 2-Fluorobiphenyl</i>	1398	0	1670	0	83.7	30-116	0			
<i>Surr: 2-Fluorophenol</i>	2505	0	3330	0	75.2	24-105	0			
<i>Surr: 4-Terphenyl-d14</i>	1318	0	1670	0	78.9	40-127	0			
<i>Surr: Nitrobenzene-d5</i>	1426	0	1670	0	85.4	32-106	0			
<i>Surr: Phenol-d5</i>	2593	0	3330	0	77.9	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16935 Instrument ID SVMS2 Method: SW8270C

MS		Sample ID ms 1305544-44b			Units: µg/Kg		Analysis Date: 5/31/2013 09:22 PM			
Client ID:		Run ID: SVMS2_130531A			SeqNo: 619490		Prep Date: 5/31/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1204	330	1669	0	72.2	50.6-92	0			
1,4-Dichlorobenzene	1152	330	1669	0	69	40.1-84.3	0			
2,4-Dinitrotoluene	1440	330	1669	0	86.3	50.3-127	0			
2-Chlorophenol	1139	330	1669	0	68.2	33.3-109	0			
4-Chloro-3-methylphenol	1417	660	1669	0	84.9	35.8-116	0			
4-Nitrophenol	ND	1,600	1669	0	90.8	38.7-135	0			
Acenaphthene	1356	330	1669	0	81.3	54.1-109	0			
Acenaphthylene	1257	330	1669	0	75.3	55.3-118	0			
Anthracene	1380	330	1669	0	82.7	51-106	0			
Benzo(a)anthracene	1532	330	1669	0	91.8	31.6-128	0			
Benzo(a)pyrene	1414	330	1669	0	84.7	66.1-109	0			
Benzo(b)fluoranthene	1480	330	1669	0	88.7	56.8-87.8	0			S
Benzo(g,h,i)perylene	1346	330	1669	0	80.6	37.7-113	0			
Benzo(k)fluoranthene	1504	330	1669	0	90.1	57-119	0			
Carbazole	1509	330	1669	0	90.4	28.5-114	0			
Chrysene	1617	330	1669	0	96.9	46.3-104	0			
Dibenzo(a,h)anthracene	1256	330	1669	0	75.3	48.8-123	0			
Fluoranthene	1157	330	1669	0	69.3	52-120	0			
Fluorene	1320	330	1669	0	79.1	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1244	150	1669	0	74.5	56.1-118	0			
Naphthalene	1247	330	1669	0	74.7	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1356	330	1669	0	81.3	46.5-116	0			
Pentachlorophenol	ND	1,600	1669	0	92.8	28.9-156	0			
Phenanthrene	1416	330	1669	0	84.9	52-105	0			
Phenol	1183	330	1669	0	70.9	25.9-90.3	0			
Pyrene	1087	330	1669	0	65.1	51-111	0			
Surr: 2,4,6-Tribromophenol	2750	0	3328	0	82.6	18-115	0			
Surr: 2-Fluorobiphenyl	1190	0	1669	0	71.3	30-116	0			
Surr: 2-Fluorophenol	2263	0	3328	0	68	24-105	0			
Surr: 4-Terphenyl-d14	927.7	0	1669	0	55.6	40-127	0			
Surr: Nitrobenzene-d5	1246	0	1669	0	74.7	32-106	0			
Surr: Phenol-d5	2282	0	3328	0	68.6	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16935 Instrument ID SVMS2 Method: SW8270C

MSD		Sample ID MSD 1305544-44B			Units: µg/Kg		Analysis Date: 6/3/2013 07:08 PM			
Client ID:		Run ID: SVMS2_130603A			SeqNo: 620344		Prep Date: 5/31/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1230	330	1672	0	73.6	50.6-92	0			
1,4-Dichlorobenzene	1178	330	1672	0	70.5	40.1-84.3	0			
2,4-Dinitrotoluene	1555	330	1672	0	93	50.3-127	0			
2-Chlorophenol	1289	330	1672	0	77.1	33.3-109	0			
4-Chloro-3-methylphenol	1326	660	1672	0	79.3	35.8-116	0			
4-Nitrophenol	ND	1,700	1672	0	91.9	38.7-135	0			
Acenaphthene	1367	330	1672	0	81.8	54.1-109	0			
Acenaphthylene	1283	330	1672	0	76.7	55.3-118	0			
Anthracene	1368	330	1672	0	81.8	51-106	0			
Benzo(a)anthracene	1652	330	1672	0	98.8	31.6-128	0			
Benzo(a)pyrene	1368	330	1672	0	81.9	66.1-109	0			
Benzo(b)fluoranthene	1427	330	1672	0	85.4	56.8-87.8	0			
Benzo(g,h,i)perylene	1426	330	1672	0	85.3	37.7-113	0			
Benzo(k)fluoranthene	1349	330	1672	0	80.7	57-119	0			
Carbazole	1448	330	1672	0	86.6	28.5-114	0			
Chrysene	1613	330	1672	0	96.5	46.3-104	0			
Dibenzo(a,h)anthracene	1299	330	1672	0	77.7	48.8-123	0			
Fluoranthene	1219	330	1672	0	72.9	52-120	0			
Fluorene	1352	330	1672	0	80.9	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1295	150	1672	0	77.5	56.1-118	0			
Naphthalene	1282	330	1672	0	76.7	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1390	330	1672	0	83.2	46.5-116	0			
Pentachlorophenol	ND	1,700	1672	0	91.2	28.9-156	0			
Phenanthrene	1436	330	1672	0	85.9	52-105	0			
Phenol	1190	330	1672	0	71.2	25.9-90.3	0			
Pyrene	1075	330	1672	0	64.3	51-111	0			
Surr: 2,4,6-Tribromophenol	2206	0	3333	0	66.2	18-115	0			
Surr: 2-Fluorobiphenyl	1191	0	1672	0	71.2	30-116	0			
Surr: 2-Fluorophenol	2309	0	3333	0	69.3	24-105	0			
Surr: 4-Terphenyl-d14	895.9	0	1672	0	53.6	40-127	0			
Surr: Nitrobenzene-d5	1361	0	1672	0	81.4	32-106	0			
Surr: Phenol-d5	2084	0	3333	0	62.5	39-123	0			

The following samples were analyzed in this batch:

1305544-44b	1305544-53b	1305544-68b
1305544-78b		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99475** Instrument ID **VMS2** Method: **SW8260**

MBLK	Sample ID	MBLK-R99475		Units: µg/Kg		Analysis Date: 5/31/2013 09:18 AM				
Client ID:	Run ID:	VMS2_130531A		SeqNo: 619073		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99475	Instrument ID VMS2	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	5.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	45.81	0	50	0	91.6	62.7-159	0
<i>Surr: Dibromofluoromethane</i>	44.32	0	50	0	88.6	88.2-133	0
<i>Surr: Toluene-d8</i>	47.56	0	50	0	95.1	81.5-110	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99475** Instrument ID **VMS2** Method: **SW8260**

LCS		Sample ID LCS-R99475			Units: µg/Kg		Analysis Date: 5/31/2013 07:46 AM			
Client ID:		Run ID: VMS2_130531A			SeqNo: 619070		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	41.61	5.0	50	0	83.2	70-132	0			
1,1-Dichloroethene	41.5	5.0	50	0	83	61.2-140	0			
1,2-Dichloroethane	43.93	5.0	50	0	87.9	67.3-139	0			
1,3-Dichlorobenzene	45.29	5.0	50	0	90.6	67.5-126	0			
1,4-Dichlorobenzene	45.61	5.0	50	0	91.2	69.5-124	0			
Benzene	42.78	5.0	50	0	85.6	67.2-135	0			
Carbon tetrachloride	42.99	5.0	50	0	86	68.6-138	0			
Chlorobenzene	45.09	5.0	50	0	90.2	66.4-133	0			
Chloroform	41.45	5.0	50	0	82.9	68.2-127	0			
cis-1,2-Dichloroethene	41.08	5.0	50	0	82.2	62.1-135	0			
Ethylbenzene	43.62	5.0	50	0	87.2	67.8-132	0			
m,p-Xylene	86.32	5.0	100	0	86.3	66.4-132	0			
Styrene	44.84	5.0	50	0	89.7	67.6-134	0			
Tetrachloroethene	47.94	5.0	50	0	95.9	70.3-144	0			
Toluene	41.44	5.0	50	0	82.9	67.8-130	0			
Trichloroethene	43.88	5.0	50	0	87.8	68.5-136	0			
Surr: 4-Bromofluorobenzene	46.22	0	50	0	92.4	62.7-159	0			
Surr: Dibromofluoromethane	47.08	0	50	0	94.2	88.2-133	0			
Surr: Toluene-d8	46.31	0	50	0	92.6	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99475** Instrument ID **VMS2** Method: **SW8260**

MS		Sample ID 1305557-07A MS			Units: µg/Kg		Analysis Date: 5/31/2013 08:16 AM			
Client ID:		Run ID: VMS2_130531A			SeqNo: 619071		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	45.92	5.0	50	0	91.8	66.9-140	0			
1,1-Dichloroethene	45.12	5.0	50	0	90.2	65.9-143	0			
1,2-Dichloroethane	50.14	5.0	50	0	100	73-135	0			
1,3-Dichlorobenzene	48.42	5.0	50	0	96.8	61.2-125	0			
1,4-Dichlorobenzene	49.05	5.0	50	0	98.1	62.3-123	0			
Benzene	46.11	5.0	50	0	92.2	35.8-162	0			
Carbon tetrachloride	48.87	5.0	50	0	97.7	71.4-130	0			
Chlorobenzene	47.56	5.0	50	0	95.1	65.6-137	0			
Chloroform	45.55	5.0	50	0	91.1	69.6-128	0			
cis-1,2-Dichloroethene	45.63	5.0	50	0	91.3	68.8-130	0			
Ethylbenzene	46.83	5.0	50	0	93.7	68.6-124	0			
m,p-Xylene	95.08	5.0	100	0	95.1	64.5-125	0			
Styrene	49.52	5.0	50	0	99	65.9-125	0			
Tetrachloroethene	50.26	5.0	50	0	101	71.6-135	0			
Toluene	44.91	5.0	50	0	89.8	67.7-135	0			
Trichloroethene	48.28	5.0	50	0	96.6	70.9-139	0			
Surr: 4-Bromofluorobenzene	46.13	0	50	0	92.3	62.7-159	0			
Surr: Dibromofluoromethane	47.46	0	50	0	94.9	88.2-133	0			
Surr: Toluene-d8	46.93	0	50	0	93.9	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99475** Instrument ID **VMS2** Method: **SW8260**

MSD		Sample ID 1305557-07A MSD			Units: µg/Kg		Analysis Date: 5/31/2013 08:47 AM			
Client ID:		Run ID: VMS2_130531A			SeqNo: 619072		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	37.56	5.0	50	0	75.1	66.9-140	45.92	20	20	R
1,1-Dichloroethene	38.78	5.0	50	0	77.6	65.9-143	45.12	15.1	20	
1,2-Dichloroethane	41.22	5.0	50	0	82.4	73-135	50.14	19.5	20	
1,3-Dichlorobenzene	43.55	5.0	50	0	87.1	61.2-125	48.42	10.6	21	
1,4-Dichlorobenzene	42.11	5.0	50	0	84.2	62.3-123	49.05	15.2	22.5	
Benzene	38.25	5.0	50	0	76.5	35.8-162	46.11	18.6	23.6	
Carbon tetrachloride	37.93	5.0	50	0	75.9	71.4-130	48.87	25.2	22.9	R
Chlorobenzene	40.81	5.0	50	0	81.6	65.6-137	47.56	15.3	20	
Chloroform	39.73	5.0	50	0	79.5	69.6-128	45.55	13.6	23.1	
cis-1,2-Dichloroethene	39.58	5.0	50	0	79.2	68.8-130	45.63	14.2	23.7	
Ethylbenzene	40.4	5.0	50	0	80.8	68.6-124	46.83	14.7	24.9	
m,p-Xylene	81.23	5.0	100	0	81.2	64.5-125	95.08	15.7	25.1	
Styrene	42.34	5.0	50	0	84.7	65.9-125	49.52	15.6	22.8	
Tetrachloroethene	41.24	5.0	50	0	82.5	71.6-135	50.26	19.7	24.7	
Toluene	37.5	5.0	50	0	75	67.7-135	44.91	18	20	
Trichloroethene	38.27	5.0	50	0	76.5	70.9-139	48.28	23.1	20	R
Surr: 4-Bromofluorobenzene	50.04	0	50	0	100	62.7-159	46.13	8.13		
Surr: Dibromofluoromethane	51.17	0	50	0	102	88.2-133	47.46	7.52		
Surr: Toluene-d8	46.79	0	50	0	93.6	81.5-110	46.93	0.299		

The following samples were analyzed in this batch:

1305544-04A	1305544-17A	1305544-53A
1305544-68A	1305544-78A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99476** Instrument ID **VMS1** Method: **SW8260**

MBLK	Sample ID	MBLK-R99476		Units: µg/L		Analysis Date: 5/31/2013 10:39 AM				
Client ID:	Run ID:	VMS1_130531B		SeqNo: 619100		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305544
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99476	Instrument ID VMS1	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	2.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	49.14	0	50	0	98.3	61-131	0
<i>Surr: Dibromofluoromethane</i>	48.7	0	50	0	97.4	87-126	0
<i>Surr: Toluene-d8</i>	51.4	0	50	0	103	84-111	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99476** Instrument ID **VMS1** Method: **SW8260**

LCS		Sample ID LCS-R99476			Units: µg/L		Analysis Date: 5/31/2013 07:40 AM			
Client ID:		Run ID: VMS1_130531B			SeqNo: 619094		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	53.29	5.0	50	0	107	48.4-140	0			
1,1-Dichloroethene	50.82	5.0	50	0	102	45.5-150	0			
1,2-Dichloroethane	50.01	5.0	50	0	100	46.5-141	0			
1,3-Dichlorobenzene	43.77	5.0	50	0	87.5	42.5-133	0			
1,4-Dichlorobenzene	44.04	5.0	50	0	88.1	38.9-136	0			
Benzene	48.65	5.0	50	0	97.3	50.7-134	0			
Carbon tetrachloride	55.11	5.0	50	0	110	45.5-143	0			
Chlorobenzene	45.3	5.0	50	0	90.6	45-133	0			
Chloroform	50.34	5.0	50	0	101	52.4-136	0			
cis-1,2-Dichloroethene	49.88	5.0	50	0	99.8	49.7-138	0			
Ethylbenzene	47.02	5.0	50	0	94	37.8-145	0			
m,p-Xylene	98.04	5.0	100	0	98	25.1-163	0			
Styrene	49.81	5.0	50	0	99.6	26.3-172	0			
Tetrachloroethene	45.93	5.0	50	0	91.9	37.3-139	0			
Toluene	51.02	5.0	50	0	102	44-135	0			
Trichloroethene	48.97	5.0	50	0	97.9	46.9-134	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.89	0	50	0	99.8	61-131	0			
<i>Surr: Dibromofluoromethane</i>	49.73	0	50	0	99.5	87-126	0			
<i>Surr: Toluene-d8</i>	52.42	0	50	0	105	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99476** Instrument ID **VMS1** Method: **SW8260**

MS		Sample ID 1305543-02A MS			Units: µg/L		Analysis Date: 5/31/2013 09:39 AM			
Client ID:		Run ID: VMS1_130531B			SeqNo: 619098		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	53.6	5.0	50	0	107	47.4-141	0			
1,1-Dichloroethene	50.33	5.0	50	0	101	56.3-140	0			
1,2-Dichloroethane	51.51	5.0	50	0	103	50.1-139	0			
1,3-Dichlorobenzene	44.74	5.0	50	0	89.5	53-127	0			
1,4-Dichlorobenzene	44.74	5.0	50	0	89.5	53.4-129	0			
Benzene	49.71	5.0	50	0	99.4	52.8-136	0			
Carbon tetrachloride	55.3	5.0	50	0	111	48.1-141	0			
Chlorobenzene	45.72	5.0	50	0	91.4	52.4-132	0			
Chloroform	51.8	5.0	50	0	104	52.9-136	0			
cis-1,2-Dichloroethene	50.28	5.0	50	0	101	63.5-128	0			
Ethylbenzene	46.8	5.0	50	0	93.6	46.5-146	0			
m,p-Xylene	97.73	5.0	100	0	97.7	38.2-167	0			
Styrene	49.43	5.0	50	0	98.9	20.9-184	0			
Tetrachloroethene	44.56	5.0	50	0	89.1	55.2-134	0			
Toluene	51.28	5.0	50	0	103	45.1-138	0			
Trichloroethene	51.05	5.0	50	0	102	52.8-133	0			
Surr: 4-Bromofluorobenzene	50.59	0	50	0	101	61-131	0			
Surr: Dibromofluoromethane	51.06	0	50	0	102	87-126	0			
Surr: Toluene-d8	52.81	0	50	0	106	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99476** Instrument ID **VMS1** Method: **SW8260**

MSD		Sample ID 1305543-02A MSD			Units: µg/L		Analysis Date: 5/31/2013 10:09 AM			
Client ID:		Run ID: VMS1_130531B			SeqNo: 619099		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	40.22	5.0	50	0	80.4	47.4-141	53.6	28.5	20	R
1,1-Dichloroethene	39.89	5.0	50	0	79.8	56.3-140	50.33	23.1	20	R
1,2-Dichloroethane	41.88	5.0	50	0	83.8	50.1-139	51.51	20.6	20	R
1,3-Dichlorobenzene	31.24	5.0	50	0	62.5	53-127	44.74	35.5	20	R
1,4-Dichlorobenzene	31.69	5.0	50	0	63.4	53.4-129	44.74	34.1	20	R
Benzene	38.77	5.0	50	0	77.5	52.8-136	49.71	24.7	20	R
Carbon tetrachloride	41.32	5.0	50	0	82.6	48.1-141	55.3	28.9	20	R
Chlorobenzene	34.45	5.0	50	0	68.9	52.4-132	45.72	28.1	20	R
Chloroform	39.97	5.0	50	0	79.9	52.9-136	51.8	25.8	20	R
cis-1,2-Dichloroethene	39.77	5.0	50	0	79.5	63.5-128	50.28	23.3	20	R
Ethylbenzene	34.28	5.0	50	0	68.6	46.5-146	46.8	30.9	20	R
m,p-Xylene	71.45	5.0	100	0	71.4	38.2-167	97.73	31.1	20	R
Styrene	36.01	5.0	50	0	72	20.9-184	49.43	31.4	20	R
Tetrachloroethene	33.37	5.0	50	0	66.7	55.2-134	44.56	28.7	20	R
Toluene	37.9	5.0	50	0	75.8	45.1-138	51.28	30	20	R
Trichloroethene	38.74	5.0	50	0	77.5	52.8-133	51.05	27.4	20	R
Surr: 4-Bromofluorobenzene	48.39	0	50	0	96.8	61-131	50.59	4.45		
Surr: Dibromofluoromethane	52.33	0	50	0	105	87-126	51.06	2.46		
Surr: Toluene-d8	52.79	0	50	0	106	84-111	52.81	0.0379		

The following samples were analyzed in this batch: 1305544-79A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99497** Instrument ID **VMS2** Method: **SW8260**

MBLK	Sample ID	MBLK-R99497		Units: µg/Kg		Analysis Date: 6/3/2013 11:02 AM				
Client ID:	Run ID:	VMS2_130603A		SeqNo: 619540		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99497	Instrument ID VMS2	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	5.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	46.85	0	50	0	93.7	62.7-159	0
<i>Surr: Dibromofluoromethane</i>	48.74	0	50	0	97.5	88.2-133	0
<i>Surr: Toluene-d8</i>	48.98	0	50	0	98	81.5-110	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99497** Instrument ID **VMS2** Method: **SW8260**

LCS		Sample ID LCS-R99497			Units: µg/Kg		Analysis Date: 6/3/2013 10:31 AM			
Client ID:		Run ID: VMS2_130603A			SeqNo: 619539		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.78	5.0	50	0	97.6	70-132	0			
1,1-Dichloroethene	49.1	5.0	50	0	98.2	61.2-140	0			
1,2-Dichloroethane	46.3	5.0	50	0	92.6	67.3-139	0			
1,3-Dichlorobenzene	46.44	5.0	50	0	92.9	67.5-126	0			
1,4-Dichlorobenzene	47.24	5.0	50	0	94.5	69.5-124	0			
Benzene	45.26	5.0	50	0	90.5	67.2-135	0			
Carbon tetrachloride	49.81	5.0	50	0	99.6	68.6-138	0			
Chlorobenzene	47.39	5.0	50	0	94.8	66.4-133	0			
Chloroform	47.79	5.0	50	0	95.6	68.2-127	0			
cis-1,2-Dichloroethene	49.5	5.0	50	0	99	62.1-135	0			
Ethylbenzene	48.16	5.0	50	0	96.3	67.8-132	0			
m,p-Xylene	97	5.0	100	0	97	66.4-132	0			
Styrene	47.72	5.0	50	0	95.4	67.6-134	0			
Tetrachloroethene	48.82	5.0	50	0	97.6	70.3-144	0			
Toluene	46.09	5.0	50	0	92.2	67.8-130	0			
Trichloroethene	46.88	5.0	50	0	93.8	68.5-136	0			
Surr: 4-Bromofluorobenzene	54.28	0	50	0	109	62.7-159	0			
Surr: Dibromofluoromethane	51.85	0	50	0	104	88.2-133	0			
Surr: Toluene-d8	50.76	0	50	0	102	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99497** Instrument ID **VMS2** Method: **SW8260**

MS		Sample ID 1305447-01A MS			Units: µg/Kg		Analysis Date: 6/3/2013 11:34 AM			
Client ID:		Run ID: VMS2_130603A			SeqNo: 619541		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	56.54	5.0	50	0	113	66.9-140	0			
1,1-Dichloroethene	56.31	5.0	50	0	113	65.9-143	0			
1,2-Dichloroethane	55.96	5.0	50	0	112	73-135	0			
1,3-Dichlorobenzene	50.4	5.0	50	0	101	61.2-125	0			
1,4-Dichlorobenzene	48.97	5.0	50	0	97.9	62.3-123	0			
Benzene	51.87	5.0	50	0	104	35.8-162	0			
Carbon tetrachloride	58.56	5.0	50	0	117	71.4-130	0			
Chlorobenzene	52.26	5.0	50	0	105	65.6-137	0			
Chloroform	50.82	5.0	50	0	102	69.6-128	0			
cis-1,2-Dichloroethene	53.45	5.0	50	0	107	68.8-130	0			
Ethylbenzene	54.22	5.0	50	0	108	68.6-124	0			
m,p-Xylene	108.3	5.0	100	0	108	64.5-125	0			
Styrene	51.97	5.0	50	0	104	65.9-125	0			
Tetrachloroethene	54.68	5.0	50	0	109	71.6-135	0			
Toluene	51.81	5.0	50	0	104	67.7-135	0			
Trichloroethene	56.11	5.0	50	0	112	70.9-139	0			
Surr: 4-Bromofluorobenzene	51.86	0	50	0	104	62.7-159	0			
Surr: Dibromofluoromethane	50.08	0	50	0	100	88.2-133	0			
Surr: Toluene-d8	50	0	50	0	100	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99497** Instrument ID **VMS2** Method: **SW8260**

MSD		Sample ID 1305447-01A MSD			Units: µg/Kg		Analysis Date: 6/3/2013 12:05 PM			
Client ID:		Run ID: VMS2_130603A			SeqNo: 619542		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	55.32	5.0	50	0	111	66.9-140	56.54	2.18	20	
1,1-Dichloroethene	56.28	5.0	50	0	113	65.9-143	56.31	0.0533	20	
1,2-Dichloroethane	62.13	5.0	50	0	124	73-135	55.96	10.4	20	
1,3-Dichlorobenzene	51	5.0	50	0	102	61.2-125	50.4	1.18	21	
1,4-Dichlorobenzene	49.6	5.0	50	0	99.2	62.3-123	48.97	1.28	22.5	
Benzene	51.2	5.0	50	0	102	35.8-162	51.87	1.3	23.6	
Carbon tetrachloride	56.56	5.0	50	0	113	71.4-130	58.56	3.47	22.9	
Chlorobenzene	51.32	5.0	50	0	103	65.6-137	52.26	1.82	20	
Chloroform	51.48	5.0	50	0	103	69.6-128	50.82	1.29	23.1	
cis-1,2-Dichloroethene	55.21	5.0	50	0	110	68.8-130	53.45	3.24	23.7	
Ethylbenzene	52.61	5.0	50	0	105	68.6-124	54.22	3.01	24.9	
m,p-Xylene	105.7	5.0	100	0	106	64.5-125	108.3	2.44	25.1	
Styrene	51.85	5.0	50	0	104	65.9-125	51.97	0.231	22.8	
Tetrachloroethene	62.34	5.0	50	0	125	71.6-135	54.68	13.1	24.7	
Toluene	51.03	5.0	50	0	102	67.7-135	51.81	1.52	20	
Trichloroethene	55.35	5.0	50	0	111	70.9-139	56.11	1.36	20	
Surr: 4-Bromofluorobenzene	50.53	0	50	0	101	62.7-159	51.86	2.6		
Surr: Dibromofluoromethane	49.66	0	50	0	99.3	88.2-133	50.08	0.842		
Surr: Toluene-d8	50.04	0	50	0	100	81.5-110	50	0.08		

The following samples were analyzed in this batch: 1305544-35A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99498** Instrument ID **VMS1** Method: **SW8260**

MBLK	Sample ID	MBLK-R99498		Units: µg/L		Analysis Date: 6/3/2013 10:58 AM				
Client ID:	Run ID:	VMS1_130603A		SeqNo: 619567		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305544
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99498	Instrument ID VMS1	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	2.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	49.71	0	50	0	99.4	61-131	0
<i>Surr: Dibromofluoromethane</i>	48.62	0	50	0	97.2	87-126	0
<i>Surr: Toluene-d8</i>	49.88	0	50	0	99.8	84-111	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99498** Instrument ID **VMS1** Method: **SW8260**

LCS		Sample ID LCS-R99498			Units: µg/L		Analysis Date: 6/3/2013 11:28 AM			
Client ID:		Run ID: VMS1_130603A			SeqNo: 619568		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.3	5.0	50	0	96.6	48.4-140	0			
1,1-Dichloroethene	47.79	5.0	50	0	95.6	45.5-150	0			
1,2-Dichloroethane	47.95	5.0	50	0	95.9	46.5-141	0			
1,3-Dichlorobenzene	48.28	5.0	50	0	96.6	42.5-133	0			
1,4-Dichlorobenzene	46.89	5.0	50	0	93.8	38.9-136	0			
Benzene	48.11	5.0	50	0	96.2	50.7-134	0			
Carbon tetrachloride	47.89	5.0	50	0	95.8	45.5-143	0			
Chlorobenzene	47.4	5.0	50	0	94.8	45-133	0			
Chloroform	47.13	5.0	50	0	94.3	52.4-136	0			
cis-1,2-Dichloroethene	47.04	5.0	50	0	94.1	49.7-138	0			
Ethylbenzene	47.98	5.0	50	0	96	37.8-145	0			
m,p-Xylene	97.18	5.0	100	0	97.2	25.1-163	0			
Styrene	49.86	5.0	50	0	99.7	26.3-172	0			
Tetrachloroethene	48.97	5.0	50	0	97.9	37.3-139	0			
Toluene	47.7	5.0	50	0	95.4	44-135	0			
Trichloroethene	47.36	5.0	50	0	94.7	46.9-134	0			
Surr: 4-Bromofluorobenzene	48.69	0	50	0	97.4	61-131	0			
Surr: Dibromofluoromethane	52.04	0	50	0	104	87-126	0			
Surr: Toluene-d8	50.69	0	50	0	101	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99498** Instrument ID **VMS1** Method: **SW8260**

MS		Sample ID 1305517-02A MS			Units: µg/L		Analysis Date: 6/3/2013 12:57 PM			
Client ID:		Run ID: VMS1_130603A			SeqNo: 619570		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	62.34	5.0	50	0	125	47.4-141	0			
1,1-Dichloroethene	57.63	5.0	50	0	115	56.3-140	0			
1,2-Dichloroethane	58.35	5.0	50	0	117	50.1-139	0			
1,3-Dichlorobenzene	57.75	5.0	50	0	116	53-127	0			
1,4-Dichlorobenzene	55.35	5.0	50	0	111	53.4-129	0			
Benzene	59.79	5.0	50	0	120	52.8-136	0			
Carbon tetrachloride	61.41	5.0	50	0	123	48.1-141	0			
Chlorobenzene	58.31	5.0	50	0	117	52.4-132	0			
Chloroform	58.24	5.0	50	0	116	52.9-136	0			
cis-1,2-Dichloroethene	58.2	5.0	50	0	116	63.5-128	0			
Ethylbenzene	59.41	5.0	50	0	119	46.5-146	0			
m,p-Xylene	119.9	5.0	100	0	120	38.2-167	0			
Styrene	63.73	5.0	50	0	127	20.9-184	0			
Tetrachloroethene	59.64	5.0	50	0	119	55.2-134	0			
Toluene	60.29	5.0	50	0	121	45.1-138	0			
Trichloroethene	59.08	5.0	50	0	118	52.8-133	0			
Surr: 4-Bromofluorobenzene	48.53	0	50	0	97.1	61-131	0			
Surr: Dibromofluoromethane	51.76	0	50	0	104	87-126	0			
Surr: Toluene-d8	50.91	0	50	0	102	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305544
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99498** Instrument ID **VMS1** Method: **SW8260**

MSD		Sample ID 1305517-02A MSD			Units: µg/L		Analysis Date: 6/3/2013 12:28 PM			
Client ID:		Run ID: VMS1_130603A			SeqNo: 619569		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	57.86	5.0	50	0	116	47.4-141	62.34	7.45	20	
1,1-Dichloroethene	55.66	5.0	50	0	111	56.3-140	57.63	3.48	20	
1,2-Dichloroethane	56.8	5.0	50	0	114	50.1-139	58.35	2.69	20	
1,3-Dichlorobenzene	54.79	5.0	50	0	110	53-127	57.75	5.26	20	
1,4-Dichlorobenzene	53.57	5.0	50	0	107	53.4-129	55.35	3.27	20	
Benzene	55.93	5.0	50	0	112	52.8-136	59.79	6.67	20	
Carbon tetrachloride	57.43	5.0	50	0	115	48.1-141	61.41	6.7	20	
Chlorobenzene	56.15	5.0	50	0	112	52.4-132	58.31	3.77	20	
Chloroform	54.83	5.0	50	0	110	52.9-136	58.24	6.03	20	
cis-1,2-Dichloroethene	55.57	5.0	50	0	111	63.5-128	58.2	4.62	20	
Ethylbenzene	57.07	5.0	50	0	114	46.5-146	59.41	4.02	20	
m,p-Xylene	115.1	5.0	100	0	115	38.2-167	119.9	4.08	20	
Styrene	58.87	5.0	50	0	118	20.9-184	63.73	7.93	20	
Tetrachloroethene	56.35	5.0	50	0	113	55.2-134	59.64	5.67	20	
Toluene	56.04	5.0	50	0	112	45.1-138	60.29	7.31	20	
Trichloroethene	55.19	5.0	50	0	110	52.8-133	59.08	6.81	20	
Surr: 4-Bromofluorobenzene	48.72	0	50	0	97.4	61-131	48.53	0.391		
Surr: Dibromofluoromethane	49.48	0	50	0	99	87-126	51.76	4.5		
Surr: Toluene-d8	49.76	0	50	0	99.5	84-111	50.91	2.28		

The following samples were analyzed in this batch:

1305544-09B	1305544-17A	1305544-44A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 26-Jun-13

Client: AECOM
 Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
 Work Order: 1305544

Analytical Comments

Method	Type:	SampID	SeqNo	Analysis	Comments
Batch <u>16908</u>					
	Analysis	1305544-09A	620834	PCBs	surrogate could not be calculated due to sample matrix interference.
	Analysis	1305544-09A	622039	PCBs	surrogate could not be calculated due to sample matrix interference.
	Analysis	1305544-11A	620835	PCBs	surrogate could not be calculated due to sample matrix interference.
	Analysis	1305544-11A	622040	PCBs	surrogate could not be calculated due to sample matrix interference.
Batch <u>16954</u>					
	Analysis	1305544-48A	620942	PCBs	Some matrix interference.
Batch <u>17400</u>					
	Prep	1305544-04B	0	Digestion, Mercury	The prep HoldTime was exceeded by 7 days.
	Prep	1305544-04B MS	0	Digestion, Mercury	The prep HoldTime was exceeded by 7 days. The prep HoldTime was exceeded by 7 days.
	Prep	1305544-04B MSD	0	Digestion, Mercury	The prep HoldTime was exceeded by 7 days. The prep HoldTime was exceeded by 7 days.
	Prep	1305544-17B	0	Digestion, Mercury	The prep HoldTime was exceeded by 7 days.
	Prep	1305544-35B	0	Digestion, Mercury	The prep HoldTime was exceeded by 6 days.
	Prep	1305544-44B	0	Digestion, Mercury	The prep HoldTime was exceeded by 6 days.
	Prep	1305544-53B	0	Digestion, Mercury	The prep HoldTime was exceeded by 6 days.
	Prep	1305544-68B	0	Digestion, Mercury	The prep HoldTime was exceeded by 6 days.
	Prep	1305544-78B	0	Digestion, Mercury	The prep HoldTime was exceeded by 6 days.
Batch <u>R99758h</u>					
	Analysis	1305544-17C	626047	Organochlorine Pesticides	Sample analyzed at x20 dilution. The surrogates were diluted out.

ALS Environmental

Date: 26-Jun-13

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305544

Analytical Comments

Method	Type:	SampID	SeqNo	Analysis	Comments
	Analysis	1305544-44C	626049	Organochlorine Pesticides	Sample analyzed at x20 dilution. The surrogates were diluted out.
Batch <u>R99758i</u>					
	Analysis	1305544-17C	626368	Herbicides	Sample analyzed at x20 dilution. The surrogate was diluted out.
	Analysis	1305544-44C	626370	Herbicides	Sample analyzed at x20 dilution. The surrogate was diluted out.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
WorkOrder: 1305544

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
% of sample	
µg/Kg	
µg/Kg-dry	
µg/L	
mg/Kg	
mg/Kg-dry	

Sample Receipt Checklist

Client Name: AECOM-CINCINNATI

Date/Time Received: 24-May-13 00:00

Work Order: 1305544

Received by: CEG

Checklist completed by Chris Gibson 24-May-13
eSignature Date

Reviewed by: Chris Gibson 07-Jun-13
eSignature Date

Matrices: soil/water

Carrier name: FedEx

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 4.7

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes: S-45 10-12.5 added to chain

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

[Empty text box for comments]

CorrectiveAction:

[Empty text box for corrective action]



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Page 1 of 8

1305544

47°C

Customer Information		Project Information		ALS Project Manager:		ALS Work Order #:	
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	PCB 8082		
Work Order		Project Number	60299534	B	Metals 6010		
Company Name	AECOM	Bill To Company	AECOM	C	Herbicides 8151		
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D	Pesticides 8081		
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E	VOC 5035		
				F	SVOC 8270		
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G			
Phone	(513) 878-6853	Phone	(513) 878-6844	H			
Fax	(513) 878-6848	Fax	(513) 878-6848	I			
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J			

Delivery Method:
 Std US Mail
 UPS
 City Dash
 US Mail
 Other: _____

Client Courier:
 ALS
 FedEx
 Drop Box

Cooling Method:
 Ice Pack
 None
 Cooler

Custody Seals On:
 Samples
 Package

Temp in Celcius: 47

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C
1	IA#1 S30-0002	01	5/22/13	1457	Soil	none	1	X	
2	IA#1 S30-0204	02		1500			1	X	
3	IA#1 S30-0405	03		1502			1	X	
4	IA#1 S30-0507	04		1510	none	7	X	X	X
5	IA#1 S30-0710	05		1513	none	1	X		
6	IA#1 S31-0002	06		1537			1	X	
7	IA#1 S31-0204	07		1539			1	X	
8	IA#1 S31-0406	08		1541			1	X	
9	IA#1 S31-0608	09		1550			1	X	
10	IA#1 S31-0608-B	10		1550	none	5	X		X

Sampler(s) Please Print & Sign: Brandon Bagley Shipment Method: FEDEX Required Turnaround Time: (Check-Box) Std 10 WK Days 5 WK Days Other 2 WK Days 24 Hour Results Due Date:

Relinquished by: [Signature] Date: 5.23.13 Time: 1900 Received by: [Signature] Notes:

Relinquished by: _____ Date: _____ Time: _____ Received by (Laboratory): _____

Logged by (Laboratory): _____ Date: _____ Time: _____ Checked by (Laboratory): _____

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

Cooler ID: _____ Cooler Temp.: _____ QC Package: (Check One Box Below)

Level II Std QC TRRP CheckList
 Level III Std QC/Raw Data TRRP Level IV
 Level IV SW846/CLP
 Other / EDD



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Fax: +1 616 399 6185

135544

ALS Project Manager:

ALS Work Order #:

Table with columns: Customer Information, Project Information, Parameter/Method Request for Analysis. Includes fields for Purchase Order, Work Order, Company Name, Address, City/State/Zip, Phone, Fax, e-Mail Address, Project Name, Project Number, Bill To Company, Invoice Attn, and analysis parameters like PCB, Metals, Herbicides, Pesticides, VOC, SVOC.

Main data table with columns: No., Sample Description, Date, Time, Matrix, Pres., # Bottles, and analysis results (A-J). Contains 10 rows of sample data with handwritten entries.

Administrative section including: Sampler(s) Please Print & Sign, Shipment Method, Required Turnaround Time, Results Due Date, Relinquished by, Received by, Logged by, and QC Package options.



1305544

ALS Project Manager: _____ ALS Work Order #: _____

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	PCB 8082											
Work Order		Project Number	60299534	B												
Company Name	AECOM	Bill To Company	AECOM	C												
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D												
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E												
				F												
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G												
Phone	(513) 878-6853	Phone	(513) 878-6844	H												
Fax	(513) 878-6848	Fax	(513) 878-6848	I												
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	IA#1S35-1517.5	21	5/22/13	1740	Soil	none	1	X									
2	IA#1S39-0002	22	5/23/13	0753				X									
3	IA#1S39-0204	23		0755				X									
4	IA#1S39-0406	24		0757				X									
5	IA#1S39-0608	25		0805				X									
6	IA#1S39-0810	26		0807				X									
7	IA#1S39-1012	27		0810				X									
8	IA#1S39-1214	28		0815				X									
9	IA#1S39-1416	29		0820				X									
10	IA#1S39-1617	30		0838				X									

Sampler(s) Please Print & Sign: Brandon Boyles Shipment Method: _____ Required Turnaround Time: (Check Box) Std 10 WK Days 5 WK Days Other 2 WK Days 24 Hour Results Due Date: _____

Relinquished by: [Signature] Date: 5.23.13 Time: 1900 Received by: [Signature] Date: 5/24/13 Time: 10:10

Relinquished by (Laboratory): _____ Date: _____ Time: _____ Received by (Laboratory): _____ Date: _____ Time: _____

Logged by (Laboratory): _____ Date: _____ Time: _____ Checked by (Laboratory): _____ Date: _____ Time: _____

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

Notes: _____

QC Package: (Check One Box Below)

Level II Std QC TRRP CheckList

Level III Std QC/Raw Data TRRP Level IV

Level IV SW846/CLP

Other / EDD



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1305544

Customer Information		Project Information		ALS Project Manager:		ALS Work Order #:	
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A		ICB 8082	
Work Order		Project Number	60299534	B		Metals 6010	
Company Name	AECOM	Bill To Company	AECOM	C		Herbicides 8151	
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D		Pesticides 8081	
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E		VOC 5035	
				F		SVOC 8270	
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G			
Phone	(513) 878-6853	Phone	(513) 878-6844	H			
Fax	(513) 878-6848	Fax	(513) 878-6848	I			
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J			

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	IA#1 S42-0002 31	5/23/13	0904		none	1	X												
2	IA#1 S42-0204 32	↓	0910		↓	1	X												
3	IA#1 S42-0406 33		0913			1	X												
4	IA#1 S42-0608 34		0928			1	X												
5	IA#1 S42-0810 35		0933			7	none via inside	X	X	X	X	X	X						
6	IA#1 S45-0002 36		0940			1	none	X											
7	IA#1 S45-0204 37		0942			1	↓	X											
8	IA#1 S45-0406 38		0944			1	↓	X											
9	IA#1 S45-0608 39		0953			1	↓	X											
10	IA#1 S45-0810 40		0958			1	↓	X											

Sampler(s) Please Print & Sign <i>Brandon Bayles</i>		Shipment Method		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:											
Relinquished by: <i>[Signature]</i>	Date: 5.23.13	Time: 1900	Received by: <i>[Signature]</i>	Notes: 10.10 5/24/13				Cooler ID				Cooler Temp.				QC Package: (Check One Box Below)			
Relinquished by:	Date:	Time:	Received by (Laboratory):									<input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP CheckList							
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):									<input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV							
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035												<input type="checkbox"/> Level IV SW846/CLP							
												<input type="checkbox"/> Other / EDD							



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Page 5 of 8

1305544

Customer Information		Project Information		ALS Project Manager:		ALS Work Order #:	
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	PCB 8082		
Work Order		Project Number	60299534	B	Metals 6010		
Company Name	AECOM	Bill To Company	AECOM	C	Herbicides 8151		
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D	Pesticides 8081		
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E	VOC 5035		
				F	SVOC 8270		
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G			
Phone	(513) 878-6853	Phone	(513) 878-6844	H			
Fax	(513) 878-6848	Fax	(513) 878-6848	I			
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J			

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	IA#1 S46-0002 41	5/23/13	1041	soil	none	1	X										
2	IA#1 S46-0204 42		1044			1	X										
3	IA#1 S46-0406 43		1047			1	X										
4	IA#1 S46-0608 44		1057		none no PCB no birds	7	X	X	X	X	X						
5	IA#1 S46-0810 45		1100		none	1	X										
6	IA#1 S46-1012.5 46		1108			1	X										
7	IA#1 S47-0002 47		1135			1	X										
8	IA#1 S47-0204 48		1137			1	X										
9	IA#1 S47-0406 49		1140			1	X										
10	IA#1 S47-0608 50		1147			1	X										

Sampler(s) Please Print & Sign <i>Brenden Buzby</i>		Shipment Method		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour		Results Due Date:	
Relinquished by:	Date: 5/23/13	Time: 1500	Received by:	Notes:			
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):			<input checked="" type="checkbox"/> Level I Std QC	<input type="checkbox"/> TRRP CheckList
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035						<input type="checkbox"/> Level II Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV
						<input type="checkbox"/> Level IV SW846/CLP	
						<input type="checkbox"/> Other / EDD	

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1305544

ALS Project Manager:

ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	PCB 8082										
Work Order		Project Number	60299534	B	Metals 6010										
Company Name	AECOM	Bill To Company	AECOM	C	Herbicides 8151										
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D	Pesticides 8081										
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E	VOC 5035										
				F	SVOC 8270										
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G											
Phone	(513) 878-6853	Phone	(513) 878-6844	H											
Fax	(513) 878-6848	Fax	(513) 878-6848	I											
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	IA#1 S49-0002	51	5/23/13	1258	soil	none	1	X									
2	IA#1 S49-0204	52		1302		none	1	X									
3	IA#1 S49-0406	53		1303		228# for Presulf.	7	X	X	X	X	X	X				
4	IA#1 S49-0608	54		1311		none	1	X									
5	IA#1 S49-0810	55		1313		none	1	X									
6	IA#1 S47-0810	56		1147			1	X									
7	IA#1 S47-1012	57		1354			1	X									
8	IA#1 S43-0002	58		1414			1	X									
9	IA#1 S43-0204	59		1416			1	X									
10	IA#1 S43-0406	60		1418			1	X									

Sampler(s) Please Print & Sign: Brandon Basley Shipment Method: _____ Required Turnaround Time: (Check Box)
 Std 10 WK Days 5 WK Days Other _____ 2 WK Days 24 Hour Results Due Date: _____

Relinquished by: [Signature] Date: 5.23.13 Time: 1300 Received by: [Signature] Date: 5/24/13 Time: 10:10
 Logged by (Laboratory): _____ Date: _____ Time: _____ Checked by (Laboratory): _____
 Notes: _____
 Cooler ID: _____ Cooler Temp.: _____
 QC Package: (Check One Box Below)
 Level II Std QC TRRP CheckList
 Level III Std QC/Raw Data TRRP Level IV
 Level IV SW846/CLP
 Other / EDD



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Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	PCB 8082										
Work Order		Project Number	60299534	B	Metals 6010										
Company Name	AECOM	Bill To Company	AECOM	C	Herbicides 8151										
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D	Pesticides 8081										
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E	VOC 5035										
				F	SVOC 8270										
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G											
Phone	(513) 878-6853	Phone	(513) 878-6844	H											
Fax	(513) 878-6848	Fax	(513) 878-6848	I											
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	IA#1 S43-0608 61	5/23/12	1426	soil	none	1	X										
2	IA#1 S43-0810 62		1428			1	X										
3	IA#1 S43-1012 63		1442			1	X										
4	IA#1 S40-0002 64		1500				X										
5	IA#1 S40-0204 65		1502				X										
6	IA#1 S40-0406 66		1503				X										
7	IA#1 S40-0608 67		1510				X										
8	IA#1 S40-0810 68		1512		N/A, NECH Soil Bis	7	X	X	X	X	X	X					
9	IA#1 S41-0002 69		1539			1	X										
10	IA#1 S41-0204 70		1541			1	X										

Sampler(s) Please Print & Sign Brandon Bugley		Shipment Method		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date:			
Relinquished by:	Date: 5.23.13	Time: 1900	Received by:	Notes:				Cooler ID			
Relinquished by:	Date:	Time:	Received by (Laboratory):	5/24/13 10:10				Cooler Temp.			
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	QC Package: (Check One Box Below)				<input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP Checklist <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other / EDD			
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035											

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1305544

Customer Information		Project Information		ALS Project Manager:		ALS Work Order #:	
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	PCB 8082		
Work Order		Project Number	60299534	B	Metals 6010		
Company Name	AECOM	Bill To Company	AECOM	C	Herbicides 8151		
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D	Pesticides 8081		
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E	VOC 5035		
				F	SVOC 8270		
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G			
Phone	(513) 878-6853	Phone	(513) 878-6844	H			
Fax	(513) 878-6848	Fax	(513) 878-6848	I			
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J			

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	IA#1 S41-0406 71	5/23/13	1542	Soil	none	1	X										
2	IA#1 S41-0608 72		1550			1	X										
3	IA#2 S41-0809 73		1552			1	X										
4	IA#1 S38-0002 74		1642				X										
5	IA#1 S38-0204 75		1644				X										
6	IA#1 S38-0406 76		1646				X										
7	IA#1 S38-0608 77		1657				X										
8	IA#1 S38-0810 78		1700	✓	NOTE: NECH SWJ. GIS	7	X	X	X	X	X	X					
9	Trip Blank 79	5.23.13	—	H ₂ O		4					X						
10																	

Sampler(s) Please Print & Sign <i>Brenda Bagley</i>		Shipment Method		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour			Results Due Date:	
Relinquished by:	Date: 5.23.13	Time: 1900	Received by:	Notes:				
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)		
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):			<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP Checklist	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035						<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV	
						<input type="checkbox"/> Level IV SW846/CLP		
						<input type="checkbox"/> Other / EDD		

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13-Jun-2013

Elaine Nomina
AECOM
4219 Malsbury Road
Cincinnati, OH 45242

Tel: (513) 878-6853
Fax: (513) 878-6848

Re: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: **1305593**

Dear Elaine,

ALS Environmental received 37 samples on 25-May-2013 09:13 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 109.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

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Environmental 

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RIGHT SOLUTIONS. RIGHT PARTNER.

Client: AECOM
 Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
 Work Order: 1305593

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1305593-01	TB-052313			5/23/2013	5/25/2013 09:13	<input type="checkbox"/>
1305593-02	IA#S33-0002	Soil		5/24/2013 08:33	5/25/2013 09:13	<input type="checkbox"/>
1305593-03	IA#S33-0204	Soil		5/24/2013 08:35	5/25/2013 09:13	<input type="checkbox"/>
1305593-04	IA#S33-0406	Soil		5/24/2013 08:37	5/25/2013 09:13	<input type="checkbox"/>
1305593-05	IA#S33-0608	Soil		5/24/2013 08:50	5/25/2013 09:13	<input type="checkbox"/>
1305593-06	IA#S33-0810	Soil		5/24/2013 08:58	5/25/2013 09:13	<input type="checkbox"/>
1305593-07	IA#S34-0002	Soil		5/23/2013 18:26	5/25/2013 09:13	<input type="checkbox"/>
1305593-08	IA#S34-0204	Soil		5/23/2013 18:35	5/25/2013 09:13	<input type="checkbox"/>
1305593-09	IA#S34-0406	Soil		5/23/2013 18:55	5/25/2013 09:13	<input type="checkbox"/>
1305593-10	IA#S34-0608	Soil		5/23/2013 18:58	5/25/2013 09:13	<input type="checkbox"/>
1305593-11	IA#S34-0810	Soil		5/23/2013 19:10	5/25/2013 09:13	<input type="checkbox"/>
1305593-12	IA#S37-0002	Soil		5/23/2013 17:19	5/25/2013 09:13	<input type="checkbox"/>
1305593-13	IA#S37-0204	Soil		5/23/2013 17:23	5/25/2013 09:13	<input type="checkbox"/>
1305593-14	IA#S37-0406	Soil		5/23/2013 17:47	5/25/2013 09:13	<input type="checkbox"/>
1305593-15	IA#S37-0608	Soil		5/23/2013 17:51	5/25/2013 09:13	<input type="checkbox"/>
1305593-16	IA#S37-0810	Soil		5/23/2013 18:02	5/25/2013 09:13	<input type="checkbox"/>
1305593-17	IA#S44-0002	Soil		5/24/2013 10:21	5/25/2013 09:13	<input type="checkbox"/>
1305593-18	IA#S44-0204	Soil		5/24/2013 10:23	5/25/2013 09:13	<input type="checkbox"/>
1305593-19	IA#S44-0406	Soil		5/24/2013 10:29	5/25/2013 09:13	<input type="checkbox"/>
1305593-20	IA#S44-0608	Soil		5/24/2013 10:35	5/25/2013 09:13	<input type="checkbox"/>
1305593-21	IA#S44-0810	Soil		5/24/2013 10:43	5/25/2013 09:13	<input type="checkbox"/>
1305593-22	IA#S48-0002	Soil		5/24/2013 10:52	5/25/2013 09:13	<input type="checkbox"/>
1305593-23	IA#S48-0204	Soil		5/24/2013 10:54	5/25/2013 09:13	<input type="checkbox"/>
1305593-24	IA#S48-0406	Soil		5/24/2013 10:56	5/25/2013 09:13	<input type="checkbox"/>
1305593-25	IA#S48-0608	Soil		5/24/2013 11:03	5/25/2013 09:13	<input type="checkbox"/>
1305593-26	IA#S48-0810	Soil		5/24/2013 11:07	5/25/2013 09:13	<input type="checkbox"/>
1305593-27	IA#S50-0002	Soil		5/24/2013 09:37	5/25/2013 09:13	<input type="checkbox"/>
1305593-28	IA#S50-0002B	Soil		5/24/2013 09:44	5/25/2013 09:13	<input type="checkbox"/>
1305593-29	IA#S50-0204	Soil		5/24/2013 09:44	5/25/2013 09:13	<input type="checkbox"/>
1305593-30	IA#S50-0406	Soil		5/24/2013 09:46	5/25/2013 09:13	<input type="checkbox"/>
1305593-31	IA#S50-0608	Soil		5/24/2013 09:54	5/25/2013 09:13	<input type="checkbox"/>
1305593-32	IA#S50-0810	Soil		5/24/2013 10:06	5/25/2013 09:13	<input type="checkbox"/>
1305593-33	IA#S51-0002	Soil		5/24/2013 07:53	5/25/2013 09:13	<input type="checkbox"/>
1305593-34	IA#S51-0204	Soil		5/24/2013 07:55	5/25/2013 09:13	<input type="checkbox"/>
1305593-35	IA#S51-0406	Soil		5/24/2013 07:56	5/25/2013 09:13	<input type="checkbox"/>
1305593-36	IA#S51-0608	Soil		5/24/2013 08:09	5/25/2013 09:13	<input type="checkbox"/>
1305593-37	IA#S51-0810	Soil		5/24/2013 08:16	5/25/2013 09:13	<input type="checkbox"/>

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305593

Case Narrative

The analyses requested were analyzed according to Ohio Voluntary Action Program requirements.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The pesticides and herbicides analysis was performed by Microbac Laboratories, Marietta, OH.

All soils are reported as dry weight corrected.

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: TB-052313

Lab ID: 1305593-01

Collection Date: 5/23/2013

Matrix:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: LAK
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	5/31/2013 11:38 AM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	5/31/2013 11:38 AM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	5/31/2013 11:38 AM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	5/31/2013 11:38 AM
1,1-Dichloroethane	ND		5.0	µg/L	1	5/31/2013 11:38 AM
1,1-Dichloroethene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
1,1-Dichloropropene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	5/31/2013 11:38 AM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	5/31/2013 11:38 AM
1,2-Dibromoethane	ND		5.0	µg/L	1	5/31/2013 11:38 AM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
1,2-Dichloroethane	ND		5.0	µg/L	1	5/31/2013 11:38 AM
1,2-Dichloropropane	ND		5.0	µg/L	1	5/31/2013 11:38 AM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
1,3-Dichloropropane	ND		5.0	µg/L	1	5/31/2013 11:38 AM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
2,2-Dichloropropane	ND		5.0	µg/L	1	5/31/2013 11:38 AM
2-Butanone	ND		5.0	µg/L	1	5/31/2013 11:38 AM
2-Chlorotoluene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
2-Hexanone	ND		5.0	µg/L	1	5/31/2013 11:38 AM
4-Chlorotoluene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Acetone	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Benzene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Bromobenzene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Bromochloromethane	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Bromodichloromethane	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Bromoform	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Bromomethane	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Carbon disulfide	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Carbon tetrachloride	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Chlorobenzene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Chloroethane	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Chloroform	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Chloromethane	ND		5.0	µg/L	1	5/31/2013 11:38 AM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: TB-052313

Lab ID: 1305593-01

Collection Date: 5/23/2013

Matrix:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Dibromochloromethane	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Dibromomethane	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Dichlorodifluoromethane	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Ethylbenzene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Hexachlorobutadiene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Isopropylbenzene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
m,p-Xylene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Methyl tert-butyl ether	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Methylene chloride	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Naphthalene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
n-Butylbenzene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
n-Propylbenzene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
o-Xylene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
p-Isopropyltoluene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
sec-Butylbenzene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Styrene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
tert-Butylbenzene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Tetrachloroethene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Toluene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Trichloroethene	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Trichlorofluoromethane	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Vinyl chloride	ND		2.0	µg/L	1	5/31/2013 11:38 AM
Xylenes, Total	ND		5.0	µg/L	1	5/31/2013 11:38 AM
Surr: 4-Bromofluorobenzene	98.8		61-131	%REC	1	5/31/2013 11:38 AM
Surr: Dibromofluoromethane	98.5		87-126	%REC	1	5/31/2013 11:38 AM
Surr: Toluene-d8	103		84-111	%REC	1	5/31/2013 11:38 AM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S33-0002

Lab ID: 1305593-02

Collection Date: 5/24/2013 08:33 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	86.4		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	81.2		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	8.4		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S33-0204

Lab ID: 1305593-03

Collection Date: 5/24/2013 08:35 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	89.2		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	80.0		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	18		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S33-0406

Lab ID: 1305593-04

Collection Date: 5/24/2013 08:37 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	85.4		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	75.6		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	18		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S33-0608

Lab ID: 1305593-05

Collection Date: 5/24/2013 08:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	84.2		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	74.0		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	12		0.010	% of sample	1	5/30/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/31/2013	Analyst: SLW
Mercury	ND		0.33	mg/Kg-dry	1	6/1/2013 02:47 PM
METALS BY ICP			SW6010B		Prep Date: 5/28/2013	Analyst: VAW
Aluminum	13,000		570	mg/Kg-dry	1	5/29/2013 05:16 PM
Antimony	ND		3.4	mg/Kg-dry	1	5/29/2013 05:16 PM
Arsenic	6.2		5.7	mg/Kg-dry	1	5/29/2013 05:16 PM
Barium	38		11	mg/Kg-dry	1	5/29/2013 05:16 PM
Beryllium	0.75		0.023	mg/Kg-dry	1	5/29/2013 05:16 PM
Cadmium	ND		1.1	mg/Kg-dry	1	5/29/2013 05:16 PM
Calcium	42,000		570	mg/Kg-dry	1	5/29/2013 05:16 PM
Chromium	22		2.3	mg/Kg-dry	1	5/29/2013 05:16 PM
Cobalt	13		5.7	mg/Kg-dry	1	5/29/2013 05:16 PM
Copper	21		5.7	mg/Kg-dry	1	5/29/2013 05:16 PM
Iron	27,000		110	mg/Kg-dry	1	5/29/2013 05:16 PM
Lead	11		5.7	mg/Kg-dry	1	5/29/2013 05:16 PM
Magnesium	11,000		110	mg/Kg-dry	1	5/29/2013 05:16 PM
Manganese	370		5.7	mg/Kg-dry	1	5/29/2013 05:16 PM
Nickel	34		5.7	mg/Kg-dry	1	5/29/2013 05:16 PM
Potassium	2,400		570	mg/Kg-dry	1	5/29/2013 05:16 PM
Selenium	ND		3.4	mg/Kg-dry	1	5/29/2013 05:16 PM
Silver	ND		1.1	mg/Kg-dry	1	5/29/2013 05:16 PM
Sodium	ND		570	mg/Kg-dry	1	5/29/2013 05:16 PM
Thallium	ND		3.4	mg/Kg-dry	1	5/31/2013 12:45 AM
Vanadium	25		5.7	mg/Kg-dry	1	5/29/2013 05:16 PM
Zinc	58		5.7	mg/Kg-dry	1	5/29/2013 05:16 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/30/2013	Analyst: Microb

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S33-0608

Lab ID: 1305593-05

Collection Date: 5/24/2013 08:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		1.8	µg/Kg	1	6/5/2013 06:30 AM
4,4'-DDE	ND		1.8	µg/Kg	1	6/5/2013 06:30 AM
4,4'-DDT	ND		1.8	µg/Kg	1	6/5/2013 06:30 AM
Aldrin	ND		1.8	µg/Kg	1	6/5/2013 06:30 AM
alpha-BHC	ND		1.8	µg/Kg	1	6/5/2013 06:30 AM
alpha-Chlordane	ND		1.8	µg/Kg	1	6/5/2013 06:30 AM
beta-BHC	ND		1.8	µg/Kg	1	6/5/2013 06:30 AM
delta-BHC	ND		1.8	µg/Kg	1	6/5/2013 06:30 AM
Dieldrin	ND		1.8	µg/Kg	1	6/5/2013 06:30 AM
Endosulfan I	ND		1.8	µg/Kg	1	6/5/2013 06:30 AM
Endosulfan II	ND		1.8	µg/Kg	1	6/5/2013 06:30 AM
Endosulfan sulfate	ND		1.8	µg/Kg	1	6/5/2013 06:30 AM
Endrin	ND		1.8	µg/Kg	1	6/5/2013 06:30 AM
Endrin aldehyde	ND		1.8	µg/Kg	1	6/5/2013 06:30 AM
Endrin ketone	ND		1.8	µg/Kg	1	6/5/2013 06:30 AM
gamma-BHC (Lindane)	ND		1.8	µg/Kg	1	6/5/2013 06:30 AM
gamma-Chlordane	ND		1.8	µg/Kg	1	6/5/2013 06:30 AM
Heptachlor	ND		1.8	µg/Kg	1	6/5/2013 06:30 AM
Heptachlor epoxide	ND		1.8	µg/Kg	1	6/5/2013 06:30 AM
Methoxychlor	ND		1.8	µg/Kg	1	6/5/2013 06:30 AM
Toxaphene	ND		37	µg/Kg	1	6/5/2013 06:30 AM
Surr: Decachlorobiphenyl	51.6		33-143	%REC	1	6/5/2013 06:30 AM
Surr: Tetrachloro-m-xylene	48.1		39-130	%REC	1	6/5/2013 06:30 AM

HERBICIDES

SW8151

Prep Date: 5/31/2013

Analyst: Microb

2,4,5-T	ND		0.0054	mg/Kg	1	6/4/2013 02:24 PM
2,4,5-TP (Silvex)	ND		0.0040	mg/Kg	1	6/4/2013 02:24 PM
2,4-D	ND		0.054	mg/Kg	1	6/4/2013 02:24 PM
2,4-DB	ND		0.054	mg/Kg	1	6/4/2013 02:24 PM
Dalapon	ND		0.13	mg/Kg	1	6/4/2013 02:24 PM
Dicamba	ND		0.0054	mg/Kg	1	6/4/2013 02:24 PM
Dichlorprop	ND		0.054	mg/Kg	1	6/4/2013 02:24 PM
Dinoseb	ND		0.027	mg/Kg	1	6/4/2013 02:24 PM
MCPA	ND		5.4	mg/Kg	1	6/4/2013 02:24 PM
MCPP	ND		5.4	mg/Kg	1	6/4/2013 02:24 PM
Pentachlorophenol	ND		0.0054	mg/Kg	1	6/4/2013 02:24 PM
Surr: 2,4-Dichlorophenylacetic acid	78.5		25-110	%REC	1	6/4/2013 02:24 PM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 5/31/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
1,2,4-Trichlorobenzene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S33-0608

Lab ID: 1305593-05

Collection Date: 5/24/2013 08:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
1,3-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
1,3-Dinitrobenzene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
1,4-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
1-Methylnaphthalene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
1-Naphthylamine	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
2,3,4,6-Tetrachlorophenol	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
2,4,5-Trichlorophenol	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
2,4,6-Trichlorophenol	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
2,4-Dichlorophenol	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
2,4-Dimethylphenol	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	6/3/2013 10:39 PM
2,4-Dinitrotoluene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
2,6-Dichlorophenol	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
2,6-Dinitrotoluene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
2-Acetylaminofluorene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
2-Chloronaphthalene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
2-Chlorophenol	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
2-Methylnaphthalene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
2-Methylphenol	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
2-Naphthylamine	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	6/3/2013 10:39 PM
2-Nitrophenol	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
2-Picoline	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
3&4-Methylphenol	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
3,3'-Dichlorobenzidine	ND		750	µg/Kg-dry	1	6/3/2013 10:39 PM
3-Methylcholanthrene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	6/3/2013 10:39 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	6/3/2013 10:39 PM
4-Aminobiphenyl	ND		750	µg/Kg-dry	1	6/3/2013 10:39 PM
4-Bromophenyl phenyl ether	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
4-Chloro-3-methylphenol	ND		750	µg/Kg-dry	1	6/3/2013 10:39 PM
4-Chloroaniline	ND		750	µg/Kg-dry	1	6/3/2013 10:39 PM
4-Chlorophenyl phenyl ether	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
4-Nitroaniline	ND		750	µg/Kg-dry	1	6/3/2013 10:39 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	6/3/2013 10:39 PM
4-Nitroquinoline 1-oxide	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
5-Nitro-o-toluidine	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
7,12-Dimethylbenz(a)anthracene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Acenaphthene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S33-0608

Lab ID: 1305593-05

Collection Date: 5/24/2013 08:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Acetophenone	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Aniline	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Anthracene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Azobenzene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Benzidine	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Benzo(a)anthracene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Benzo(a)pyrene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Benzo(b)fluoranthene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Benzo(g,h,i)perylene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Benzo(k)fluoranthene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Benzyl alcohol	ND		750	µg/Kg-dry	1	6/3/2013 10:39 PM
Bis(2-chloroethoxy)methane	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Bis(2-chloroethyl)ether	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Bis(2-chloroisopropyl)ether	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Bis(2-ethylhexyl)phthalate	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Butyl benzyl phthalate	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Carbazole	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Chrysene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Dibenzo(a,h)anthracene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Dibenzofuran	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Diethyl phthalate	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Dimethyl phthalate	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Di-n-butyl phthalate	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Di-n-octyl phthalate	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Dinoseb	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Diphenylamine	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Ethyl methanesulfonate	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Fluoranthene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Fluorene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Hexachlorobenzene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Hexachlorobutadiene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Hexachlorocyclopentadiene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Hexachloroethane	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Indeno(1,2,3-cd)pyrene	ND		170	µg/Kg-dry	1	6/3/2013 10:39 PM
Isophorone	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Isosafrole	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Methapyrilene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Methyl methanesulfonate	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Naphthalene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S33-0608

Lab ID: 1305593-05

Collection Date: 5/24/2013 08:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
N-Nitrosodiethylamine	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
N-Nitrosodimethylamine	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
N-Nitroso-di-n-butylamine	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
N-Nitrosodi-n-propylamine	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
N-Nitrosomethylethylamine	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
N-Nitrosomorpholine	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
N-Nitrosopiperidine	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
N-Nitrosopyrrolidine	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
o-Toluidine	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
p-Dimethylaminoazobenzene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Pentachlorobenzene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Pentachloroethane	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Pentachloronitrobenzene	ND		750	µg/Kg-dry	1	6/3/2013 10:39 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	6/3/2013 10:39 PM
Phenacetin	ND		750	µg/Kg-dry	1	6/3/2013 10:39 PM
Phenanthrene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Phenol	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Pyrene	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Pyridine	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
Safrole	ND		380	µg/Kg-dry	1	6/3/2013 10:39 PM
<i>Surr: 2,4,6-Tribromophenol</i>	61.9		18-115	%REC	1	6/3/2013 10:39 PM
<i>Surr: 2-Fluorobiphenyl</i>	72.3		30-116	%REC	1	6/3/2013 10:39 PM
<i>Surr: 2-Fluorophenol</i>	57.0		24-105	%REC	1	6/3/2013 10:39 PM
<i>Surr: 4-Terphenyl-d14</i>	57.8		40-127	%REC	1	6/3/2013 10:39 PM
<i>Surr: Nitrobenzene-d5</i>	84.2		32-106	%REC	1	6/3/2013 10:39 PM
<i>Surr: Phenol-d5</i>	53.3		39-123	%REC	1	6/3/2013 10:39 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/31/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
1,1,1-Trichloroethane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
1,1,2,2-Tetrachloroethane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
1,1,2-Trichloroethane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
1,1-Dichloroethane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
1,1-Dichloroethene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
1,1-Dichloropropene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
1,2,3-Trichlorobenzene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
1,2,3-Trichloropropane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
1,2,4-Trichlorobenzene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
1,2,4-Trimethylbenzene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
1,2-Dibromo-3-chloropropane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S33-0608

Lab ID: 1305593-05

Collection Date: 5/24/2013 08:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
1,2-Dichlorobenzene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
1,2-Dichloroethane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
1,2-Dichloropropane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
1,3,5-Trimethylbenzene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
1,3-Dichlorobenzene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
1,3-Dichloropropane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
1,4-Dichlorobenzene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
2,2-Dichloropropane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
2-Butanone	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
2-Chlorotoluene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
2-Hexanone	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
4-Chlorotoluene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
4-Methyl-2-pentanone	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Acetone	19		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Benzene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Bromobenzene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Bromochloromethane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Bromodichloromethane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Bromoform	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Bromomethane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Carbon disulfide	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Carbon tetrachloride	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Chlorobenzene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Chloroethane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Chloroform	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Chloromethane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
cis-1,2-Dichloroethene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
cis-1,3-Dichloropropene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Dibromochloromethane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Dibromomethane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Dichlorodifluoromethane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Ethylbenzene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Hexachlorobutadiene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Isopropylbenzene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
m,p-Xylene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Methyl tert-butyl ether	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Methylene chloride	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Naphthalene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
n-Butylbenzene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S33-0608

Lab ID: 1305593-05

Collection Date: 5/24/2013 08:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
o-Xylene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
p-Isopropyltoluene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
sec-Butylbenzene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Styrene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
tert-Butylbenzene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Tetrachloroethene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Toluene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
trans-1,2-Dichloroethene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
trans-1,3-Dichloropropene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Trichloroethene	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Trichlorofluoromethane	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Vinyl chloride	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
Xylenes, Total	ND		4.7	µg/Kg-dry	1	5/31/2013 05:54 PM
<i>Surr: 4-Bromofluorobenzene</i>	127		62.7-159	%REC	1	5/31/2013 05:54 PM
<i>Surr: Dibromofluoromethane</i>	99.4		88.2-133	%REC	1	5/31/2013 05:54 PM
<i>Surr: Toluene-d8</i>	88.6		81.5-110	%REC	1	5/31/2013 05:54 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S33-0810

Lab ID: 1305593-06

Collection Date: 5/24/2013 08:58 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	87.6		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	79.6		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	10		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S34-0002

Lab ID: 1305593-07

Collection Date: 5/23/2013 06:26 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	88.8		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	84.8		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	21		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S34-0204

Lab ID: 1305593-08

Collection Date: 5/23/2013 06:35 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	89.0		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	85.2		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	18		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S34-0406

Lab ID: 1305593-09

Collection Date: 5/23/2013 06:55 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	85.2		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	79.0		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	16		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S34-0608

Lab ID: 1305593-10

Collection Date: 5/23/2013 06:58 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	89.6		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	83.0		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S34-0810

Lab ID: 1305593-11

Collection Date: 5/23/2013 07:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	86.6		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	81.6		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	12		0.010	% of sample	1	5/30/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/31/2013	Analyst: SLW
Mercury	ND		0.33	mg/Kg-dry	1	6/1/2013 02:53 PM
METALS BY ICP			SW6010B		Prep Date: 5/28/2013	Analyst: VAW
Aluminum	9,000		560	mg/Kg-dry	1	5/29/2013 05:22 PM
Antimony	ND		3.4	mg/Kg-dry	1	5/29/2013 05:22 PM
Arsenic	10		5.6	mg/Kg-dry	1	5/29/2013 05:22 PM
Barium	24		11	mg/Kg-dry	1	5/29/2013 05:22 PM
Beryllium	0.47		0.022	mg/Kg-dry	1	5/29/2013 05:22 PM
Cadmium	ND		1.1	mg/Kg-dry	1	5/29/2013 05:22 PM
Calcium	60,000	E	560	mg/Kg-dry	1	5/29/2013 05:22 PM
Chromium	16		2.2	mg/Kg-dry	1	5/29/2013 05:22 PM
Cobalt	12		5.6	mg/Kg-dry	1	5/29/2013 05:22 PM
Copper	28		5.6	mg/Kg-dry	1	5/29/2013 05:22 PM
Iron	24,000		110	mg/Kg-dry	1	5/29/2013 05:22 PM
Lead	12		5.6	mg/Kg-dry	1	5/29/2013 05:22 PM
Magnesium	14,000		110	mg/Kg-dry	1	5/29/2013 05:22 PM
Manganese	400		5.6	mg/Kg-dry	1	5/29/2013 05:22 PM
Nickel	29		5.6	mg/Kg-dry	1	5/29/2013 05:22 PM
Potassium	1,700		560	mg/Kg-dry	1	5/29/2013 05:22 PM
Selenium	ND		3.4	mg/Kg-dry	1	5/29/2013 05:22 PM
Silver	ND		1.1	mg/Kg-dry	1	5/29/2013 05:22 PM
Sodium	ND		560	mg/Kg-dry	1	5/29/2013 05:22 PM
Thallium	ND		3.4	mg/Kg-dry	1	5/31/2013 12:52 AM
Vanadium	18		5.6	mg/Kg-dry	1	5/29/2013 05:22 PM
Zinc	50		5.6	mg/Kg-dry	1	5/29/2013 05:22 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/30/2013	Analyst: Microb

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S34-0810

Lab ID: 1305593-11

Collection Date: 5/23/2013 07:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		1.8	µg/Kg	1	6/5/2013 06:58 AM
4,4'-DDE	ND		1.8	µg/Kg	1	6/5/2013 06:58 AM
4,4'-DDT	ND		1.8	µg/Kg	1	6/5/2013 06:58 AM
Aldrin	ND		1.8	µg/Kg	1	6/5/2013 06:58 AM
alpha-BHC	ND		1.8	µg/Kg	1	6/5/2013 06:58 AM
alpha-Chlordane	ND		1.8	µg/Kg	1	6/5/2013 06:58 AM
beta-BHC	ND		1.8	µg/Kg	1	6/5/2013 06:58 AM
delta-BHC	ND		1.8	µg/Kg	1	6/5/2013 06:58 AM
Dieldrin	ND		1.8	µg/Kg	1	6/5/2013 06:58 AM
Endosulfan I	ND		1.8	µg/Kg	1	6/5/2013 06:58 AM
Endosulfan II	ND		1.8	µg/Kg	1	6/5/2013 06:58 AM
Endosulfan sulfate	ND		1.8	µg/Kg	1	6/5/2013 06:58 AM
Endrin	ND		1.8	µg/Kg	1	6/5/2013 06:58 AM
Endrin aldehyde	ND		1.8	µg/Kg	1	6/5/2013 06:58 AM
Endrin ketone	ND		1.8	µg/Kg	1	6/5/2013 06:58 AM
gamma-BHC (Lindane)	ND		1.8	µg/Kg	1	6/5/2013 06:58 AM
gamma-Chlordane	ND		1.8	µg/Kg	1	6/5/2013 06:58 AM
Heptachlor	ND		1.8	µg/Kg	1	6/5/2013 06:58 AM
Heptachlor epoxide	ND		1.8	µg/Kg	1	6/5/2013 06:58 AM
Methoxychlor	ND		1.8	µg/Kg	1	6/5/2013 06:58 AM
Toxaphene	ND		36	µg/Kg	1	6/5/2013 06:58 AM
Surr: Decachlorobiphenyl	60.6		33-143	%REC	1	6/5/2013 06:58 AM
Surr: Tetrachloro-m-xylene	49.0		39-130	%REC	1	6/5/2013 06:58 AM

HERBICIDES

SW8151

Prep Date: 5/31/2013

Analyst: Microb

2,4,5-T	ND		0.0052	mg/Kg	1	6/4/2013 03:41 PM
2,4,5-TP (Silvex)	ND		0.0039	mg/Kg	1	6/4/2013 03:41 PM
2,4-D	ND		0.052	mg/Kg	1	6/4/2013 03:41 PM
2,4-DB	ND		0.052	mg/Kg	1	6/4/2013 03:41 PM
Dalapon	ND		0.13	mg/Kg	1	6/4/2013 03:41 PM
Dicamba	ND		0.0052	mg/Kg	1	6/4/2013 03:41 PM
Dichlorprop	ND		0.052	mg/Kg	1	6/4/2013 03:41 PM
Dinoseb	ND		0.026	mg/Kg	1	6/4/2013 03:41 PM
MCPA	ND		5.2	mg/Kg	1	6/4/2013 03:41 PM
MCPP	ND		5.2	mg/Kg	1	6/4/2013 03:41 PM
Pentachlorophenol	ND		0.0052	mg/Kg	1	6/4/2013 03:41 PM
Surr: 2,4-Dichlorophenylacetic acid	135	S	25-110	%REC	1	6/4/2013 03:41 PM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 5/31/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
1,2,4-Trichlorobenzene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S34-0810

Lab ID: 1305593-11

Collection Date: 5/23/2013 07:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
1,3-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
1,3-Dinitrobenzene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
1,4-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
1-Methylnaphthalene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
1-Naphthylamine	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
2,3,4,6-Tetrachlorophenol	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
2,4,5-Trichlorophenol	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
2,4,6-Trichlorophenol	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
2,4-Dichlorophenol	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
2,4-Dimethylphenol	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	6/3/2013 11:14 PM
2,4-Dinitrotoluene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
2,6-Dichlorophenol	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
2,6-Dinitrotoluene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
2-Acetylaminofluorene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
2-Chloronaphthalene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
2-Chlorophenol	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
2-Methylnaphthalene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
2-Methylphenol	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
2-Naphthylamine	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	6/3/2013 11:14 PM
2-Nitrophenol	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
2-Picoline	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
3&4-Methylphenol	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
3,3'-Dichlorobenzidine	ND		750	µg/Kg-dry	1	6/3/2013 11:14 PM
3-Methylcholanthrene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	6/3/2013 11:14 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	6/3/2013 11:14 PM
4-Aminobiphenyl	ND		750	µg/Kg-dry	1	6/3/2013 11:14 PM
4-Bromophenyl phenyl ether	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
4-Chloro-3-methylphenol	ND		750	µg/Kg-dry	1	6/3/2013 11:14 PM
4-Chloroaniline	ND		750	µg/Kg-dry	1	6/3/2013 11:14 PM
4-Chlorophenyl phenyl ether	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
4-Nitroaniline	ND		750	µg/Kg-dry	1	6/3/2013 11:14 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	6/3/2013 11:14 PM
4-Nitroquinoline 1-oxide	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
5-Nitro-o-toluidine	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
7,12-Dimethylbenz(a)anthracene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Acenaphthene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S34-0810

Lab ID: 1305593-11

Collection Date: 5/23/2013 07:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Acetophenone	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Aniline	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Anthracene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Azobenzene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Benzidine	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Benzo(a)anthracene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Benzo(a)pyrene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Benzo(b)fluoranthene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Benzo(g,h,i)perylene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Benzo(k)fluoranthene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Benzyl alcohol	ND		750	µg/Kg-dry	1	6/3/2013 11:14 PM
Bis(2-chloroethoxy)methane	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Bis(2-chloroethyl)ether	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Bis(2-chloroisopropyl)ether	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Bis(2-ethylhexyl)phthalate	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Butyl benzyl phthalate	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Carbazole	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Chrysene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Dibenzo(a,h)anthracene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Dibenzofuran	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Diethyl phthalate	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Dimethyl phthalate	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Di-n-butyl phthalate	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Di-n-octyl phthalate	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Dinoseb	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Diphenylamine	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Ethyl methanesulfonate	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Fluoranthene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Fluorene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Hexachlorobenzene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Hexachlorobutadiene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Hexachlorocyclopentadiene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Hexachloroethane	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Indeno(1,2,3-cd)pyrene	ND		170	µg/Kg-dry	1	6/3/2013 11:14 PM
Isophorone	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Isosafrole	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Methapyrilene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Methyl methanesulfonate	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Naphthalene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S34-0810

Lab ID: 1305593-11

Collection Date: 5/23/2013 07:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
N-Nitrosodiethylamine	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
N-Nitrosodimethylamine	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
N-Nitroso-di-n-butylamine	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
N-Nitrosodi-n-propylamine	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
N-Nitrosomethylethylamine	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
N-Nitrosomorpholine	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
N-Nitrosopiperidine	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
N-Nitrosopyrrolidine	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
o-Toluidine	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
p-Dimethylaminoazobenzene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Pentachlorobenzene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Pentachloroethane	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Pentachloronitrobenzene	ND		750	µg/Kg-dry	1	6/3/2013 11:14 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	6/3/2013 11:14 PM
Phenacetin	ND		750	µg/Kg-dry	1	6/3/2013 11:14 PM
Phenanthrene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Phenol	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Pyrene	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Pyridine	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
Safrole	ND		380	µg/Kg-dry	1	6/3/2013 11:14 PM
<i>Surr: 2,4,6-Tribromophenol</i>	<i>66.1</i>		<i>18-115</i>	<i>%REC</i>	<i>1</i>	<i>6/3/2013 11:14 PM</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>70.7</i>		<i>30-116</i>	<i>%REC</i>	<i>1</i>	<i>6/3/2013 11:14 PM</i>
<i>Surr: 2-Fluorophenol</i>	<i>50.9</i>		<i>24-105</i>	<i>%REC</i>	<i>1</i>	<i>6/3/2013 11:14 PM</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>57.6</i>		<i>40-127</i>	<i>%REC</i>	<i>1</i>	<i>6/3/2013 11:14 PM</i>
<i>Surr: Nitrobenzene-d5</i>	<i>78.6</i>		<i>32-106</i>	<i>%REC</i>	<i>1</i>	<i>6/3/2013 11:14 PM</i>
<i>Surr: Phenol-d5</i>	<i>48.2</i>		<i>39-123</i>	<i>%REC</i>	<i>1</i>	<i>6/3/2013 11:14 PM</i>

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/31/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
1,1,1-Trichloroethane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
1,1,2,2-Tetrachloroethane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
1,1,2-Trichloroethane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
1,1-Dichloroethane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
1,1-Dichloroethene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
1,1-Dichloropropene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
1,2,3-Trichlorobenzene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
1,2,3-Trichloropropane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
1,2,4-Trichlorobenzene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
1,2,4-Trimethylbenzene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
1,2-Dibromo-3-chloropropane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S34-0810

Lab ID: 1305593-11

Collection Date: 5/23/2013 07:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
1,2-Dichlorobenzene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
1,2-Dichloroethane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
1,2-Dichloropropane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
1,3,5-Trimethylbenzene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
1,3-Dichlorobenzene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
1,3-Dichloropropane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
1,4-Dichlorobenzene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
2,2-Dichloropropane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
2-Butanone	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
2-Chlorotoluene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
2-Hexanone	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
4-Chlorotoluene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
4-Methyl-2-pentanone	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Acetone	9.4		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Benzene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Bromobenzene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Bromochloromethane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Bromodichloromethane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Bromoform	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Bromomethane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Carbon disulfide	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Carbon tetrachloride	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Chlorobenzene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Chloroethane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Chloroform	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Chloromethane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
cis-1,2-Dichloroethene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
cis-1,3-Dichloropropene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Dibromochloromethane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Dibromomethane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Dichlorodifluoromethane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Ethylbenzene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Hexachlorobutadiene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Isopropylbenzene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
m,p-Xylene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Methyl tert-butyl ether	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Methylene chloride	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Naphthalene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
n-Butylbenzene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S34-0810

Lab ID: 1305593-11

Collection Date: 5/23/2013 07:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
o-Xylene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
p-Isopropyltoluene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
sec-Butylbenzene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Styrene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
tert-Butylbenzene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Tetrachloroethene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Toluene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
trans-1,2-Dichloroethene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
trans-1,3-Dichloropropene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Trichloroethene	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Trichlorofluoromethane	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Vinyl chloride	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Xylenes, Total	ND		5.3	µg/Kg-dry	1	5/31/2013 06:25 PM
Surr: 4-Bromofluorobenzene	119		62.7-159	%REC	1	5/31/2013 06:25 PM
Surr: Dibromofluoromethane	98.5		88.2-133	%REC	1	5/31/2013 06:25 PM
Surr: Toluene-d8	89.5		81.5-110	%REC	1	5/31/2013 06:25 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S37-0002

Lab ID: 1305593-12

Collection Date: 5/23/2013 05:19 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1254	0.91		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/4/2013
<i>Surr: Decachlorobiphenyl</i>	85.6		22-156	%REC	1	6/4/2013
<i>Surr: Tetrachloro-m-xylene</i>	85.8		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S37-0204

Lab ID: 1305593-13

Collection Date: 5/23/2013 05:23 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	87.6		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	85.2		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	16		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S37-0406

Lab ID: 1305593-14

Collection Date: 5/23/2013 05:47 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/4/2013
<i>Surr: Decachlorobiphenyl</i>	89.6		22-156	%REC	1	6/4/2013
<i>Surr: Tetrachloro-m-xylene</i>	90.4		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	16		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S37-0608

Lab ID: 1305593-15

Collection Date: 5/23/2013 05:51 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	86.2		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	82.0		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	12		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S37-0810

Lab ID: 1305593-16

Collection Date: 5/23/2013 06:02 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	90.8		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	84.8		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S44-0002

Lab ID: 1305593-17

Collection Date: 5/24/2013 10:21 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	90.0		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	87.2		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	9.5		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S44-0204

Lab ID: 1305593-18

Collection Date: 5/24/2013 10:23 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	87.2		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	77.6		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	12		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S44-0406

Lab ID: 1305593-19

Collection Date: 5/24/2013 10:29 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	85.8		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	82.4		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S44-0608

Lab ID: 1305593-20

Collection Date: 5/24/2013 10:35 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	87.6		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	83.6		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S44-0810

Lab ID: 1305593-21

Collection Date: 5/24/2013 10:43 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/1/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	88.4		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	82.2		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S48-0002

Lab ID: 1305593-22

Collection Date: 5/24/2013 10:52 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/4/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	99.2		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	992	S	34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S48-0204

Lab ID: 1305593-23

Collection Date: 5/24/2013 10:54 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/4/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/4/2013
<i>Surr: Decachlorobiphenyl</i>	91.6		22-156	%REC	1	6/4/2013
<i>Surr: Tetrachloro-m-xylene</i>	103		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S48-0406

Lab ID: 1305593-24

Collection Date: 5/24/2013 10:56 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/4/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	93.4		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	102		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S48-0608

Lab ID: 1305593-25

Collection Date: 5/24/2013 11:03 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/4/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	93.0		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	92.0		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	11		0.010	% of sample	1	5/30/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/31/2013	Analyst: SLW
Mercury	ND		0.31	mg/Kg-dry	1	6/1/2013 02:55 PM
METALS BY ICP			SW6010B		Prep Date: 5/28/2013	Analyst: VAW
Aluminum	9,300		550	mg/Kg-dry	1	5/29/2013 05:29 PM
Antimony	ND		3.3	mg/Kg-dry	1	5/29/2013 05:29 PM
Arsenic	10		5.5	mg/Kg-dry	1	5/29/2013 05:29 PM
Barium	54		11	mg/Kg-dry	1	5/29/2013 05:29 PM
Beryllium	0.50		0.022	mg/Kg-dry	1	5/29/2013 05:29 PM
Cadmium	ND		1.1	mg/Kg-dry	1	5/29/2013 05:29 PM
Calcium	54,000		550	mg/Kg-dry	1	5/29/2013 05:29 PM
Chromium	16		2.2	mg/Kg-dry	1	5/29/2013 05:29 PM
Cobalt	11		5.5	mg/Kg-dry	1	5/29/2013 05:29 PM
Copper	23		5.5	mg/Kg-dry	1	5/29/2013 05:29 PM
Iron	25,000		110	mg/Kg-dry	1	5/29/2013 05:29 PM
Lead	11		5.5	mg/Kg-dry	1	5/29/2013 05:29 PM
Magnesium	11,000		110	mg/Kg-dry	1	5/29/2013 05:29 PM
Manganese	490		5.5	mg/Kg-dry	1	5/29/2013 05:29 PM
Nickel	30		5.5	mg/Kg-dry	1	5/29/2013 05:29 PM
Potassium	1,500		550	mg/Kg-dry	1	5/29/2013 05:29 PM
Selenium	ND		3.3	mg/Kg-dry	1	5/29/2013 05:29 PM
Silver	ND		1.1	mg/Kg-dry	1	5/29/2013 05:29 PM
Sodium	ND		550	mg/Kg-dry	1	5/29/2013 05:29 PM
Thallium	ND		3.3	mg/Kg-dry	1	5/31/2013 12:58 AM
Vanadium	18		5.5	mg/Kg-dry	1	5/29/2013 05:29 PM
Zinc	61		5.5	mg/Kg-dry	1	5/29/2013 05:29 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/30/2013	Analyst: Microb

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S48-0608

Lab ID: 1305593-25

Collection Date: 5/24/2013 11:03 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		1.9	µg/Kg	1	6/5/2013 07:26 AM
4,4'-DDE	ND		1.9	µg/Kg	1	6/5/2013 07:26 AM
4,4'-DDT	ND		1.9	µg/Kg	1	6/5/2013 07:26 AM
Aldrin	ND		1.9	µg/Kg	1	6/5/2013 07:26 AM
alpha-BHC	ND		1.9	µg/Kg	1	6/5/2013 07:26 AM
alpha-Chlordane	ND		1.9	µg/Kg	1	6/5/2013 07:26 AM
beta-BHC	ND		1.9	µg/Kg	1	6/5/2013 07:26 AM
delta-BHC	ND		1.9	µg/Kg	1	6/5/2013 07:26 AM
Dieldrin	ND		1.9	µg/Kg	1	6/5/2013 07:26 AM
Endosulfan I	ND		1.9	µg/Kg	1	6/5/2013 07:26 AM
Endosulfan II	ND		1.9	µg/Kg	1	6/5/2013 07:26 AM
Endosulfan sulfate	ND		1.9	µg/Kg	1	6/5/2013 07:26 AM
Endrin	ND		1.9	µg/Kg	1	6/5/2013 07:26 AM
Endrin aldehyde	ND		1.9	µg/Kg	1	6/5/2013 07:26 AM
Endrin ketone	ND		1.9	µg/Kg	1	6/5/2013 07:26 AM
gamma-BHC (Lindane)	ND		1.9	µg/Kg	1	6/5/2013 07:26 AM
gamma-Chlordane	ND		1.9	µg/Kg	1	6/5/2013 07:26 AM
Heptachlor	ND		1.9	µg/Kg	1	6/5/2013 07:26 AM
Heptachlor epoxide	ND		1.9	µg/Kg	1	6/5/2013 07:26 AM
Methoxychlor	ND		1.9	µg/Kg	1	6/5/2013 07:26 AM
Toxaphene	ND		38	µg/Kg	1	6/5/2013 07:26 AM
Surr: Decachlorobiphenyl	55.1		33-143	%REC	1	6/5/2013 07:26 AM
Surr: Tetrachloro-m-xylene	51.3		39-130	%REC	1	6/5/2013 07:26 AM

HERBICIDES

SW8151

Prep Date: 5/31/2013

Analyst: Microb

2,4,5-T	ND		0.0054	mg/Kg	1	6/4/2013 04:07 PM
2,4,5-TP (Silvex)	ND		0.0040	mg/Kg	1	6/4/2013 04:07 PM
2,4-D	ND		0.054	mg/Kg	1	6/4/2013 04:07 PM
2,4-DB	ND		0.054	mg/Kg	1	6/4/2013 04:07 PM
Dalapon	ND		0.14	mg/Kg	1	6/4/2013 04:07 PM
Dicamba	ND		0.0054	mg/Kg	1	6/4/2013 04:07 PM
Dichlorprop	ND		0.054	mg/Kg	1	6/4/2013 04:07 PM
Dinoseb	ND		0.027	mg/Kg	1	6/4/2013 04:07 PM
MCPA	ND		5.4	mg/Kg	1	6/4/2013 04:07 PM
MCPP	ND		5.4	mg/Kg	1	6/4/2013 04:07 PM
Pentachlorophenol	ND		0.0054	mg/Kg	1	6/4/2013 04:07 PM
Surr: 2,4-Dichlorophenylacetic acid	47.7		25-110	%REC	1	6/4/2013 04:07 PM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 5/31/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
1,2,4-Trichlorobenzene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S48-0608

Lab ID: 1305593-25

Collection Date: 5/24/2013 11:03 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
1,3-Dichlorobenzene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
1,3-Dinitrobenzene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
1,4-Dichlorobenzene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
1-Methylnaphthalene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
1-Naphthylamine	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
2,3,4,6-Tetrachlorophenol	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
2,4,5-Trichlorophenol	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
2,4,6-Trichlorophenol	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
2,4-Dichlorophenol	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
2,4-Dimethylphenol	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	6/3/2013 11:48 PM
2,4-Dinitrotoluene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
2,6-Dichlorophenol	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
2,6-Dinitrotoluene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
2-Acetylaminofluorene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
2-Chloronaphthalene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
2-Chlorophenol	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
2-Methylnaphthalene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
2-Methylphenol	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
2-Naphthylamine	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	6/3/2013 11:48 PM
2-Nitrophenol	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
2-Picoline	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
3&4-Methylphenol	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
3,3'-Dichlorobenzidine	ND		740	µg/Kg-dry	1	6/3/2013 11:48 PM
3-Methylcholanthrene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	6/3/2013 11:48 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	6/3/2013 11:48 PM
4-Aminobiphenyl	ND		740	µg/Kg-dry	1	6/3/2013 11:48 PM
4-Bromophenyl phenyl ether	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
4-Chloro-3-methylphenol	ND		740	µg/Kg-dry	1	6/3/2013 11:48 PM
4-Chloroaniline	ND		740	µg/Kg-dry	1	6/3/2013 11:48 PM
4-Chlorophenyl phenyl ether	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
4-Nitroaniline	ND		740	µg/Kg-dry	1	6/3/2013 11:48 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	6/3/2013 11:48 PM
4-Nitroquinoline 1-oxide	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
5-Nitro-o-toluidine	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
7,12-Dimethylbenz(a)anthracene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Acenaphthene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S48-0608

Lab ID: 1305593-25

Collection Date: 5/24/2013 11:03 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Acetophenone	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Aniline	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Anthracene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Azobenzene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Benzidine	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Benzo(a)anthracene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Benzo(a)pyrene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Benzo(b)fluoranthene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Benzo(g,h,i)perylene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Benzo(k)fluoranthene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Benzyl alcohol	ND		740	µg/Kg-dry	1	6/3/2013 11:48 PM
Bis(2-chloroethoxy)methane	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Bis(2-chloroethyl)ether	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Bis(2-chloroisopropyl)ether	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Bis(2-ethylhexyl)phthalate	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Butyl benzyl phthalate	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Carbazole	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Chrysene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Dibenzo(a,h)anthracene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Dibenzofuran	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Diethyl phthalate	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Dimethyl phthalate	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Di-n-butyl phthalate	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Di-n-octyl phthalate	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Dinoseb	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Diphenylamine	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Ethyl methanesulfonate	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Fluoranthene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Fluorene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Hexachlorobenzene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Hexachlorobutadiene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Hexachlorocyclopentadiene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Hexachloroethane	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Indeno(1,2,3-cd)pyrene	ND		170	µg/Kg-dry	1	6/3/2013 11:48 PM
Isophorone	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Isosafrole	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Methapyrilene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Methyl methanesulfonate	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Naphthalene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S48-0608

Lab ID: 1305593-25

Collection Date: 5/24/2013 11:03 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
N-Nitrosodiethylamine	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
N-Nitrosodimethylamine	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
N-Nitroso-di-n-butylamine	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
N-Nitrosodi-n-propylamine	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
N-Nitrosomethylethylamine	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
N-Nitrosomorpholine	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
N-Nitrosopiperidine	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
N-Nitrosopyrrolidine	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
o-Toluidine	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
p-Dimethylaminoazobenzene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Pentachlorobenzene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Pentachloroethane	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Pentachloronitrobenzene	ND		740	µg/Kg-dry	1	6/3/2013 11:48 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	6/3/2013 11:48 PM
Phenacetin	ND		740	µg/Kg-dry	1	6/3/2013 11:48 PM
Phenanthrene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Phenol	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Pyrene	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Pyridine	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
Safrole	ND		370	µg/Kg-dry	1	6/3/2013 11:48 PM
<i>Surr: 2,4,6-Tribromophenol</i>	<i>61.7</i>		<i>18-115</i>	<i>%REC</i>	<i>1</i>	<i>6/3/2013 11:48 PM</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>75.4</i>		<i>30-116</i>	<i>%REC</i>	<i>1</i>	<i>6/3/2013 11:48 PM</i>
<i>Surr: 2-Fluorophenol</i>	<i>56.5</i>		<i>24-105</i>	<i>%REC</i>	<i>1</i>	<i>6/3/2013 11:48 PM</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>57.6</i>		<i>40-127</i>	<i>%REC</i>	<i>1</i>	<i>6/3/2013 11:48 PM</i>
<i>Surr: Nitrobenzene-d5</i>	<i>84.9</i>		<i>32-106</i>	<i>%REC</i>	<i>1</i>	<i>6/3/2013 11:48 PM</i>
<i>Surr: Phenol-d5</i>	<i>52.1</i>		<i>39-123</i>	<i>%REC</i>	<i>1</i>	<i>6/3/2013 11:48 PM</i>

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/31/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
1,1,1-Trichloroethane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
1,1,2,2-Tetrachloroethane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
1,1,2-Trichloroethane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
1,1-Dichloroethane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
1,1-Dichloroethene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
1,1-Dichloropropene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
1,2,3-Trichlorobenzene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
1,2,3-Trichloropropane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
1,2,4-Trichlorobenzene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
1,2,4-Trimethylbenzene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
1,2-Dibromo-3-chloropropane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S48-0608

Lab ID: 1305593-25

Collection Date: 5/24/2013 11:03 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
1,2-Dichlorobenzene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
1,2-Dichloroethane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
1,2-Dichloropropane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
1,3,5-Trimethylbenzene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
1,3-Dichlorobenzene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
1,3-Dichloropropane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
1,4-Dichlorobenzene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
2,2-Dichloropropane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
2-Butanone	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
2-Chlorotoluene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
2-Hexanone	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
4-Chlorotoluene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
4-Methyl-2-pentanone	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Acetone	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Benzene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Bromobenzene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Bromochloromethane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Bromodichloromethane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Bromoform	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Bromomethane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Carbon disulfide	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Carbon tetrachloride	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Chlorobenzene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Chloroethane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Chloroform	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Chloromethane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
cis-1,2-Dichloroethene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
cis-1,3-Dichloropropene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Dibromochloromethane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Dibromomethane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Dichlorodifluoromethane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Ethylbenzene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Hexachlorobutadiene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Isopropylbenzene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
m,p-Xylene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Methyl tert-butyl ether	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Methylene chloride	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Naphthalene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
n-Butylbenzene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S48-0608

Lab ID: 1305593-25

Collection Date: 5/24/2013 11:03 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
o-Xylene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
p-Isopropyltoluene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
sec-Butylbenzene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Styrene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
tert-Butylbenzene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Tetrachloroethene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Toluene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
trans-1,2-Dichloroethene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
trans-1,3-Dichloropropene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Trichloroethene	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Trichlorofluoromethane	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Vinyl chloride	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Xylenes, Total	ND		5.6	µg/Kg-dry	1	6/3/2013 01:42 PM
Surr: 4-Bromofluorobenzene	133		62.7-159	%REC	1	6/3/2013 01:42 PM
Surr: Dibromofluoromethane	109		88.2-133	%REC	1	6/3/2013 01:42 PM
Surr: Toluene-d8	93.4		81.5-110	%REC	1	6/3/2013 01:42 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S48-0810

Lab ID: 1305593-26

Collection Date: 5/24/2013 11:07 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/4/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	82.6		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	91.0		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	10		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S50-0002

Lab ID: 1305593-27

Collection Date: 5/24/2013 09:37 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/4/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	87.0		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	98.4		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	5/30/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/31/2013	Analyst: SLW
Mercury	ND		0.34	mg/Kg-dry	1	6/1/2013 02:57 PM
METALS BY ICP			SW6010B		Prep Date: 5/28/2013	Analyst: VAW
Aluminum	6,500		580	mg/Kg-dry	1	5/29/2013 05:35 PM
Antimony	18		3.5	mg/Kg-dry	1	5/29/2013 05:35 PM
Arsenic	7.7		5.8	mg/Kg-dry	1	5/29/2013 05:35 PM
Barium	54		12	mg/Kg-dry	1	5/29/2013 05:35 PM
Beryllium	0.38		0.023	mg/Kg-dry	1	5/29/2013 05:35 PM
Cadmium	4.8		1.2	mg/Kg-dry	1	5/29/2013 05:35 PM
Calcium	35,000		580	mg/Kg-dry	1	5/29/2013 05:35 PM
Chromium	11		2.3	mg/Kg-dry	1	5/29/2013 05:35 PM
Cobalt	24		5.8	mg/Kg-dry	1	5/29/2013 05:35 PM
Copper	25		5.8	mg/Kg-dry	1	5/29/2013 05:35 PM
Iron	15,000		120	mg/Kg-dry	1	5/29/2013 05:35 PM
Lead	36		5.8	mg/Kg-dry	1	5/29/2013 05:35 PM
Magnesium	14,000		120	mg/Kg-dry	1	5/29/2013 05:35 PM
Manganese	310		5.8	mg/Kg-dry	1	5/29/2013 05:35 PM
Nickel	29		5.8	mg/Kg-dry	1	5/29/2013 05:35 PM
Potassium	650		580	mg/Kg-dry	1	5/29/2013 05:35 PM
Selenium	ND		3.5	mg/Kg-dry	1	5/29/2013 05:35 PM
Silver	ND		1.2	mg/Kg-dry	1	5/29/2013 05:35 PM
Sodium	ND		580	mg/Kg-dry	1	5/29/2013 05:35 PM
Thallium	ND		3.5	mg/Kg-dry	1	5/31/2013 01:04 AM
Vanadium	15		5.8	mg/Kg-dry	1	5/29/2013 05:35 PM
Zinc	160		5.8	mg/Kg-dry	1	5/29/2013 05:35 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/30/2013	Analyst: Microb

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S50-0002

Lab ID: 1305593-27

Collection Date: 5/24/2013 09:37 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		2.0	µg/Kg	1	6/5/2013 07:53 AM
4,4'-DDE	3.0		2.0	µg/Kg	1	6/5/2013 07:53 AM
4,4'-DDT	ND		2.0	µg/Kg	1	6/5/2013 07:53 AM
Aldrin	ND		2.0	µg/Kg	1	6/5/2013 07:53 AM
alpha-BHC	ND		2.0	µg/Kg	1	6/5/2013 07:53 AM
alpha-Chlordane	ND		2.0	µg/Kg	1	6/5/2013 07:53 AM
beta-BHC	ND		2.0	µg/Kg	1	6/5/2013 07:53 AM
delta-BHC	ND		2.0	µg/Kg	1	6/5/2013 07:53 AM
Dieldrin	ND		2.0	µg/Kg	1	6/5/2013 07:53 AM
Endosulfan I	ND		2.0	µg/Kg	1	6/5/2013 07:53 AM
Endosulfan II	ND		2.0	µg/Kg	1	6/5/2013 07:53 AM
Endosulfan sulfate	ND		2.0	µg/Kg	1	6/5/2013 07:53 AM
Endrin	ND		2.0	µg/Kg	1	6/5/2013 07:53 AM
Endrin aldehyde	ND		2.0	µg/Kg	1	6/5/2013 07:53 AM
Endrin ketone	ND		2.0	µg/Kg	1	6/5/2013 07:53 AM
gamma-BHC (Lindane)	ND		2.0	µg/Kg	1	6/5/2013 07:53 AM
gamma-Chlordane	ND		2.0	µg/Kg	1	6/5/2013 07:53 AM
Heptachlor	ND		2.0	µg/Kg	1	6/5/2013 07:53 AM
Heptachlor epoxide	ND		2.0	µg/Kg	1	6/5/2013 07:53 AM
Methoxychlor	ND		2.0	µg/Kg	1	6/5/2013 07:53 AM
Toxaphene	ND		40	µg/Kg	1	6/5/2013 07:53 AM
Surr: Decachlorobiphenyl	67.4		33-143	%REC	1	6/5/2013 07:53 AM
Surr: Tetrachloro-m-xylene	55.2		39-130	%REC	1	6/5/2013 07:53 AM

HERBICIDES

SW8151

Prep Date: 5/31/2013

Analyst: Microb

2,4,5-T	ND		0.0028	mg/Kg	1	6/4/2013 04:59 PM
2,4,5-TP (Silvex)	ND		0.0021	mg/Kg	1	6/4/2013 04:59 PM
2,4-D	ND		0.028	mg/Kg	1	6/4/2013 04:59 PM
2,4-DB	ND		0.028	mg/Kg	1	6/4/2013 04:59 PM
Dalapon	ND		0.070	mg/Kg	1	6/4/2013 04:59 PM
Dicamba	ND		0.0028	mg/Kg	1	6/4/2013 04:59 PM
Dichlorprop	ND		0.028	mg/Kg	1	6/4/2013 04:59 PM
Dinoseb	ND		0.014	mg/Kg	1	6/4/2013 04:59 PM
MCPA	ND		2.8	mg/Kg	1	6/4/2013 04:59 PM
MCPP	ND		2.8	mg/Kg	1	6/4/2013 04:59 PM
Pentachlorophenol	ND		0.0028	mg/Kg	1	6/4/2013 04:59 PM
Surr: 2,4-Dichlorophenylacetic acid	58.5		25-110	%REC	1	6/4/2013 04:59 PM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 5/31/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
1,2,4-Trichlorobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S50-0002

Lab ID: 1305593-27

Collection Date: 5/24/2013 09:37 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
1,3-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
1,3-Dinitrobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
1,4-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
1-Methylnaphthalene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
1-Naphthylamine	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
2,3,4,6-Tetrachlorophenol	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
2,4,5-Trichlorophenol	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
2,4,6-Trichlorophenol	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
2,4-Dichlorophenol	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
2,4-Dimethylphenol	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	6/4/2013 12:23 PM
2,4-Dinitrotoluene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
2,6-Dichlorophenol	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
2,6-Dinitrotoluene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
2-Acetylaminofluorene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
2-Chloronaphthalene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
2-Chlorophenol	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
2-Methylnaphthalene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
2-Methylphenol	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
2-Naphthylamine	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	6/4/2013 12:23 PM
2-Nitrophenol	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
2-Picoline	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
3&4-Methylphenol	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
3,3'-Dichlorobenzidine	ND		760	µg/Kg-dry	1	6/4/2013 12:23 PM
3-Methylcholanthrene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	6/4/2013 12:23 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	6/4/2013 12:23 PM
4-Aminobiphenyl	ND		760	µg/Kg-dry	1	6/4/2013 12:23 PM
4-Bromophenyl phenyl ether	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
4-Chloro-3-methylphenol	ND		760	µg/Kg-dry	1	6/4/2013 12:23 PM
4-Chloroaniline	ND		760	µg/Kg-dry	1	6/4/2013 12:23 PM
4-Chlorophenyl phenyl ether	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
4-Nitroaniline	ND		760	µg/Kg-dry	1	6/4/2013 12:23 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	6/4/2013 12:23 PM
4-Nitroquinoline 1-oxide	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
5-Nitro-o-toluidine	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
7,12-Dimethylbenz(a)anthracene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Acenaphthene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S50-0002

Lab ID: 1305593-27

Collection Date: 5/24/2013 09:37 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Acetophenone	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Aniline	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Anthracene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Azobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Benzidine	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Benzo(a)anthracene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Benzo(a)pyrene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Benzo(b)fluoranthene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Benzo(g,h,i)perylene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Benzo(k)fluoranthene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Benzyl alcohol	ND		760	µg/Kg-dry	1	6/4/2013 12:23 PM
Bis(2-chloroethoxy)methane	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Bis(2-chloroethyl)ether	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Bis(2-chloroisopropyl)ether	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Bis(2-ethylhexyl)phthalate	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Butyl benzyl phthalate	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Carbazole	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Chrysene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Dibenzo(a,h)anthracene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Dibenzofuran	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Diethyl phthalate	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Dimethyl phthalate	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Di-n-butyl phthalate	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Di-n-octyl phthalate	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Dinoseb	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Diphenylamine	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Ethyl methanesulfonate	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Fluoranthene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Fluorene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Hexachlorobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Hexachlorobutadiene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Hexachlorocyclopentadiene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Hexachloroethane	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Indeno(1,2,3-cd)pyrene	ND		170	µg/Kg-dry	1	6/4/2013 12:23 PM
Isophorone	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Isosafrole	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Methapyrilene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Methyl methanesulfonate	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Naphthalene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S50-0002

Lab ID: 1305593-27

Collection Date: 5/24/2013 09:37 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
N-Nitrosodiethylamine	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
N-Nitrosodimethylamine	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
N-Nitroso-di-n-butylamine	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
N-Nitrosodi-n-propylamine	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
N-Nitrosomethylethylamine	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
N-Nitrosomorpholine	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
N-Nitrosopiperidine	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
N-Nitrosopyrrolidine	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
o-Toluidine	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
p-Dimethylaminoazobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Pentachlorobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Pentachloroethane	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Pentachloronitrobenzene	ND		760	µg/Kg-dry	1	6/4/2013 12:23 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	6/4/2013 12:23 PM
Phenacetin	ND		760	µg/Kg-dry	1	6/4/2013 12:23 PM
Phenanthrene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Phenol	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Pyrene	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Pyridine	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
Safrole	ND		380	µg/Kg-dry	1	6/4/2013 12:23 PM
<i>Surr: 2,4,6-Tribromophenol</i>	66.9		18-115	%REC	1	6/4/2013 12:23 PM
<i>Surr: 2-Fluorobiphenyl</i>	72.9		30-116	%REC	1	6/4/2013 12:23 PM
<i>Surr: 2-Fluorophenol</i>	54.4		24-105	%REC	1	6/4/2013 12:23 PM
<i>Surr: 4-Terphenyl-d14</i>	58.9		40-127	%REC	1	6/4/2013 12:23 PM
<i>Surr: Nitrobenzene-d5</i>	83.5		32-106	%REC	1	6/4/2013 12:23 PM
<i>Surr: Phenol-d5</i>	53.3		39-123	%REC	1	6/4/2013 12:23 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/31/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
1,1,1-Trichloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
1,1,2,2-Tetrachloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
1,1,2-Trichloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
1,1-Dichloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
1,1-Dichloroethene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
1,1-Dichloropropene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
1,2,3-Trichlorobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
1,2,3-Trichloropropane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
1,2,4-Trichlorobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
1,2,4-Trimethylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
1,2-Dibromo-3-chloropropane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S50-0002

Lab ID: 1305593-27

Collection Date: 5/24/2013 09:37 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
1,2-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
1,2-Dichloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
1,2-Dichloropropane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
1,3,5-Trimethylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
1,3-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
1,3-Dichloropropane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
1,4-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
2,2-Dichloropropane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
2-Butanone	13		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
2-Chlorotoluene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
2-Hexanone	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
4-Chlorotoluene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
4-Methyl-2-pentanone	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Acetone	98		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Benzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Bromobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Bromochloromethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Bromodichloromethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Bromoform	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Bromomethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Carbon disulfide	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Carbon tetrachloride	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Chlorobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Chloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Chloroform	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Chloromethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
cis-1,2-Dichloroethene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
cis-1,3-Dichloropropene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Dibromochloromethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Dibromomethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Dichlorodifluoromethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Ethylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Hexachlorobutadiene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Isopropylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
m,p-Xylene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Methyl tert-butyl ether	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Methylene chloride	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Naphthalene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
n-Butylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S50-0002

Lab ID: 1305593-27

Collection Date: 5/24/2013 09:37 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
o-Xylene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
p-Isopropyltoluene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
sec-Butylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Styrene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
tert-Butylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Tetrachloroethene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Toluene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
trans-1,2-Dichloroethene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
trans-1,3-Dichloropropene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Trichloroethene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Trichlorofluoromethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Vinyl chloride	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Xylenes, Total	ND		5.8	µg/Kg-dry	1	6/3/2013 02:13 PM
Surr: 4-Bromofluorobenzene	98.5		62.7-159	%REC	1	6/3/2013 02:13 PM
Surr: Dibromofluoromethane	114		88.2-133	%REC	1	6/3/2013 02:13 PM
Surr: Toluene-d8	98.9		81.5-110	%REC	1	6/3/2013 02:13 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S50-0002B

Lab ID: 1305593-28

Collection Date: 5/24/2013 09:44 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/4/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	85.6		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	96.4		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	5/30/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/31/2013	Analyst: SLW
Mercury	ND		0.32	mg/Kg-dry	1	6/1/2013 03:03 PM
METALS BY ICP			SW6010B		Prep Date: 5/28/2013	Analyst: VAW
Aluminum	6,300		570	mg/Kg-dry	1	5/29/2013 05:41 PM
Antimony	11		3.4	mg/Kg-dry	1	5/29/2013 05:41 PM
Arsenic	7.3		5.7	mg/Kg-dry	1	5/29/2013 05:41 PM
Barium	51		11	mg/Kg-dry	1	5/29/2013 05:41 PM
Beryllium	0.39		0.023	mg/Kg-dry	1	5/29/2013 05:41 PM
Cadmium	2.7		1.1	mg/Kg-dry	1	5/29/2013 05:41 PM
Calcium	4,100		570	mg/Kg-dry	1	5/29/2013 05:41 PM
Chromium	9.9		2.3	mg/Kg-dry	1	5/29/2013 05:41 PM
Cobalt	15		5.7	mg/Kg-dry	1	5/29/2013 05:41 PM
Copper	16		5.7	mg/Kg-dry	1	5/29/2013 05:41 PM
Iron	13,000		110	mg/Kg-dry	1	5/29/2013 05:41 PM
Lead	24		5.7	mg/Kg-dry	1	5/29/2013 05:41 PM
Magnesium	1,900		110	mg/Kg-dry	1	5/29/2013 05:41 PM
Manganese	290		5.7	mg/Kg-dry	1	5/29/2013 05:41 PM
Nickel	23		5.7	mg/Kg-dry	1	5/29/2013 05:41 PM
Potassium	ND		570	mg/Kg-dry	1	5/29/2013 05:41 PM
Selenium	ND		3.4	mg/Kg-dry	1	5/29/2013 05:41 PM
Silver	ND		1.1	mg/Kg-dry	1	5/29/2013 05:41 PM
Sodium	ND		570	mg/Kg-dry	1	5/29/2013 05:41 PM
Thallium	ND		3.4	mg/Kg-dry	1	5/31/2013 01:11 AM
Vanadium	14		5.7	mg/Kg-dry	1	5/29/2013 05:41 PM
Zinc	100		5.7	mg/Kg-dry	1	5/29/2013 05:41 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/30/2013	Analyst: Microb

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S50-0002B

Lab ID: 1305593-28

Collection Date: 5/24/2013 09:44 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		2.0	µg/Kg	1	6/5/2013 09:17 AM
4,4'-DDE	6.8		2.0	µg/Kg	1	6/5/2013 09:17 AM
4,4'-DDT	2.3		2.0	µg/Kg	1	6/5/2013 09:17 AM
Aldrin	ND		2.0	µg/Kg	1	6/5/2013 09:17 AM
alpha-BHC	ND		2.0	µg/Kg	1	6/5/2013 09:17 AM
alpha-Chlordane	ND		2.0	µg/Kg	1	6/5/2013 09:17 AM
beta-BHC	ND		2.0	µg/Kg	1	6/5/2013 09:17 AM
delta-BHC	ND		2.0	µg/Kg	1	6/5/2013 09:17 AM
Dieldrin	ND		2.0	µg/Kg	1	6/5/2013 09:17 AM
Endosulfan I	ND		2.0	µg/Kg	1	6/5/2013 09:17 AM
Endosulfan II	ND		2.0	µg/Kg	1	6/5/2013 09:17 AM
Endosulfan sulfate	ND		2.0	µg/Kg	1	6/5/2013 09:17 AM
Endrin	ND		2.0	µg/Kg	1	6/5/2013 09:17 AM
Endrin aldehyde	ND		2.0	µg/Kg	1	6/5/2013 09:17 AM
Endrin ketone	ND		2.0	µg/Kg	1	6/5/2013 09:17 AM
gamma-BHC (Lindane)	ND		2.0	µg/Kg	1	6/5/2013 09:17 AM
gamma-Chlordane	ND		2.0	µg/Kg	1	6/5/2013 09:17 AM
Heptachlor	ND		2.0	µg/Kg	1	6/5/2013 09:17 AM
Heptachlor epoxide	ND		2.0	µg/Kg	1	6/5/2013 09:17 AM
Methoxychlor	ND		2.0	µg/Kg	1	6/5/2013 09:17 AM
Toxaphene	ND		41	µg/Kg	1	6/5/2013 09:17 AM
Surr: Decachlorobiphenyl	79.7		33-143	%REC	1	6/5/2013 09:17 AM
Surr: Tetrachloro-m-xylene	59.7		39-130	%REC	1	6/5/2013 09:17 AM

HERBICIDES

SW8151

Prep Date: 5/31/2013

Analyst: Microb

2,4,5-T	ND		0.0055	mg/Kg	1	6/4/2013 05:24 PM
2,4,5-TP (Silvex)	ND		0.0041	mg/Kg	1	6/4/2013 05:24 PM
2,4-D	ND		0.055	mg/Kg	1	6/4/2013 05:24 PM
2,4-DB	ND		0.055	mg/Kg	1	6/4/2013 05:24 PM
Dalapon	ND		0.14	mg/Kg	1	6/4/2013 05:24 PM
Dicamba	ND		0.0055	mg/Kg	1	6/4/2013 05:24 PM
Dichlorprop	ND		0.055	mg/Kg	1	6/4/2013 05:24 PM
Dinoseb	ND		0.028	mg/Kg	1	6/4/2013 05:24 PM
MCPA	ND		5.5	mg/Kg	1	6/4/2013 05:24 PM
MCPP	ND		5.5	mg/Kg	1	6/4/2013 05:24 PM
Pentachlorophenol	ND		0.0055	mg/Kg	1	6/4/2013 05:24 PM
Surr: 2,4-Dichlorophenylacetic acid	73.9		25-110	%REC	1	6/4/2013 05:24 PM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 5/31/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
1,2,4-Trichlorobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S50-0002B

Lab ID: 1305593-28

Collection Date: 5/24/2013 09:44 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
1,3-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
1,3-Dinitrobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
1,4-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
1-Methylnaphthalene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
1-Naphthylamine	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
2,3,4,6-Tetrachlorophenol	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
2,4,5-Trichlorophenol	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
2,4,6-Trichlorophenol	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
2,4-Dichlorophenol	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
2,4-Dimethylphenol	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	6/4/2013 12:57 PM
2,4-Dinitrotoluene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
2,6-Dichlorophenol	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
2,6-Dinitrotoluene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
2-Acetylaminofluorene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
2-Chloronaphthalene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
2-Chlorophenol	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
2-Methylnaphthalene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
2-Methylphenol	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
2-Naphthylamine	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	6/4/2013 12:57 PM
2-Nitrophenol	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
2-Picoline	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
3&4-Methylphenol	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
3,3'-Dichlorobenzidine	ND		760	µg/Kg-dry	1	6/4/2013 12:57 PM
3-Methylcholanthrene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	6/4/2013 12:57 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	6/4/2013 12:57 PM
4-Aminobiphenyl	ND		760	µg/Kg-dry	1	6/4/2013 12:57 PM
4-Bromophenyl phenyl ether	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
4-Chloro-3-methylphenol	ND		760	µg/Kg-dry	1	6/4/2013 12:57 PM
4-Chloroaniline	ND		760	µg/Kg-dry	1	6/4/2013 12:57 PM
4-Chlorophenyl phenyl ether	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
4-Nitroaniline	ND		760	µg/Kg-dry	1	6/4/2013 12:57 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	6/4/2013 12:57 PM
4-Nitroquinoline 1-oxide	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
5-Nitro-o-toluidine	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
7,12-Dimethylbenz(a)anthracene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Acenaphthene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S50-0002B

Lab ID: 1305593-28

Collection Date: 5/24/2013 09:44 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Acetophenone	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Aniline	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Anthracene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Azobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Benzidine	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Benzo(a)anthracene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Benzo(a)pyrene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Benzo(b)fluoranthene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Benzo(g,h,i)perylene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Benzo(k)fluoranthene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Benzyl alcohol	ND		760	µg/Kg-dry	1	6/4/2013 12:57 PM
Bis(2-chloroethoxy)methane	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Bis(2-chloroethyl)ether	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Bis(2-chloroisopropyl)ether	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Bis(2-ethylhexyl)phthalate	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Butyl benzyl phthalate	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Carbazole	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Chrysene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Dibenzo(a,h)anthracene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Dibenzofuran	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Diethyl phthalate	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Dimethyl phthalate	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Di-n-butyl phthalate	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Di-n-octyl phthalate	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Dinoseb	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Diphenylamine	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Ethyl methanesulfonate	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Fluoranthene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Fluorene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Hexachlorobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Hexachlorobutadiene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Hexachlorocyclopentadiene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Hexachloroethane	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Indeno(1,2,3-cd)pyrene	ND		170	µg/Kg-dry	1	6/4/2013 12:57 PM
Isophorone	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Isosafrole	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Methapyrilene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Methyl methanesulfonate	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Naphthalene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S50-0002B

Lab ID: 1305593-28

Collection Date: 5/24/2013 09:44 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
N-Nitrosodiethylamine	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
N-Nitrosodimethylamine	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
N-Nitroso-di-n-butylamine	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
N-Nitrosodi-n-propylamine	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
N-Nitrosomethylethylamine	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
N-Nitrosomorpholine	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
N-Nitrosopiperidine	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
N-Nitrosopyrrolidine	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
o-Toluidine	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
p-Dimethylaminoazobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Pentachlorobenzene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Pentachloroethane	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Pentachloronitrobenzene	ND		760	µg/Kg-dry	1	6/4/2013 12:57 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	6/4/2013 12:57 PM
Phenacetin	ND		760	µg/Kg-dry	1	6/4/2013 12:57 PM
Phenanthrene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Phenol	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Pyrene	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Pyridine	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
Safrole	ND		380	µg/Kg-dry	1	6/4/2013 12:57 PM
<i>Surr: 2,4,6-Tribromophenol</i>	64.3		18-115	%REC	1	6/4/2013 12:57 PM
<i>Surr: 2-Fluorobiphenyl</i>	78.3		30-116	%REC	1	6/4/2013 12:57 PM
<i>Surr: 2-Fluorophenol</i>	62.4		24-105	%REC	1	6/4/2013 12:57 PM
<i>Surr: 4-Terphenyl-d14</i>	63.1		40-127	%REC	1	6/4/2013 12:57 PM
<i>Surr: Nitrobenzene-d5</i>	92.6		32-106	%REC	1	6/4/2013 12:57 PM
<i>Surr: Phenol-d5</i>	58.6		39-123	%REC	1	6/4/2013 12:57 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/31/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
1,1,1-Trichloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
1,1,2,2-Tetrachloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
1,1,2-Trichloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
1,1-Dichloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
1,1-Dichloroethene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
1,1-Dichloropropene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
1,2,3-Trichlorobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
1,2,3-Trichloropropane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
1,2,4-Trichlorobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
1,2,4-Trimethylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
1,2-Dibromo-3-chloropropane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S50-0002B

Lab ID: 1305593-28

Collection Date: 5/24/2013 09:44 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
1,2-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
1,2-Dichloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
1,2-Dichloropropane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
1,3,5-Trimethylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
1,3-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
1,3-Dichloropropane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
1,4-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
2,2-Dichloropropane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
2-Butanone	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
2-Chlorotoluene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
2-Hexanone	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
4-Chlorotoluene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
4-Methyl-2-pentanone	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Acetone	110		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Benzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Bromobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Bromochloromethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Bromodichloromethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Bromoform	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Bromomethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Carbon disulfide	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Carbon tetrachloride	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Chlorobenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Chloroethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Chloroform	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Chloromethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
cis-1,2-Dichloroethene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
cis-1,3-Dichloropropene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Dibromochloromethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Dibromomethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Dichlorodifluoromethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Ethylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Hexachlorobutadiene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Isopropylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
m,p-Xylene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Methyl tert-butyl ether	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Methylene chloride	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Naphthalene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
n-Butylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S50-0002B

Lab ID: 1305593-28

Collection Date: 5/24/2013 09:44 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
o-Xylene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
p-Isopropyltoluene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
sec-Butylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Styrene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
tert-Butylbenzene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Tetrachloroethene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Toluene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
trans-1,2-Dichloroethene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
trans-1,3-Dichloropropene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Trichloroethene	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Trichlorofluoromethane	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Vinyl chloride	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Xylenes, Total	ND		5.8	µg/Kg-dry	1	6/3/2013 02:44 PM
Surr: 4-Bromofluorobenzene	98.8		62.7-159	%REC	1	6/3/2013 02:44 PM
Surr: Dibromofluoromethane	115		88.2-133	%REC	1	6/3/2013 02:44 PM
Surr: Toluene-d8	98.5		81.5-110	%REC	1	6/3/2013 02:44 PM

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S50-0204

Lab ID: 1305593-29

Collection Date: 5/24/2013 09:44 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/4/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	84.0		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	98.4		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S50-0406

Lab ID: 1305593-30

Collection Date: 5/24/2013 09:46 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/4/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/4/2013
<i>Surr: Decachlorobiphenyl</i>	87.6		22-156	%REC	1	6/4/2013
<i>Surr: Tetrachloro-m-xylene</i>	104		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S50-0608

Lab ID: 1305593-31

Collection Date: 5/24/2013 09:54 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/4/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	85.2		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	100		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	12		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S50-0810

Lab ID: 1305593-32

Collection Date: 5/24/2013 10:06 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/4/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	83.8		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	96.8		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	11		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S51-0002

Lab ID: 1305593-33

Collection Date: 5/24/2013 07:53 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/4/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	84.4		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	98.8		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	12		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S51-0204

Lab ID: 1305593-34

Collection Date: 5/24/2013 07:55 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/4/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.26	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	84.0		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	90.2		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	23		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S51-0406

Lab ID: 1305593-35

Collection Date: 5/24/2013 07:56 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/4/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	90.8		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	97.4		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S51-0608

Lab ID: 1305593-36

Collection Date: 5/24/2013 08:09 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/4/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	81.0		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	94.0		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	16		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305593

Sample ID: IA#S51-0810

Lab ID: 1305593-37

Collection Date: 5/24/2013 08:16 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/4/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/4/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/4/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/4/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/4/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/4/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	6/4/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/4/2013
Surr: Decachlorobiphenyl	80.4		22-156	%REC	1	6/4/2013
Surr: Tetrachloro-m-xylene	97.0		34-145	%REC	1	6/4/2013
MOISTURE			SM2540B		Prep Date: 5/30/2013	Analyst: CTS
Moisture	21		0.010	% of sample	1	5/30/2013

Note:

ALS Environmental

Date: 13-Jun-13

Client: AECOM

QC BATCH REPORT

Work Order: 1305593

Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

Batch ID: 16957

Instrument ID: GC9

Method: SW8082

MBLK		Sample ID: MBLK-16957-16957			Units: mg/Kg		Analysis Date: 6/4/2013			
Client ID:		Run ID: GC9_130604B			SeqNo: 624121		Prep Date: 6/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.0916	0	0.1	0	91.6	22-156	0			
Surr: Tetrachloro-m-xylene	0.0872	0	0.1	0	87.2	34-145	0			

LCS		Sample ID: LCS-16957-16957			Units: mg/Kg		Analysis Date: 6/4/2013			
Client ID:		Run ID: GC9_130604B			SeqNo: 624122		Prep Date: 6/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.961	0.10	2	0	98.1	50-133	0			
Surr: Decachlorobiphenyl	0.0924	0	0.1	0	92.4	22-156	0			
Surr: Tetrachloro-m-xylene	0.085	0	0.1	0	85	34-145	0			

MS		Sample ID: 1305593-18AMS			Units: mg/Kg		Analysis Date: 6/4/2013			
Client ID: IA#S44-0204		Run ID: GC9_130604B			SeqNo: 624140		Prep Date: 6/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.909	0.10	2	0	95.4	31-150	0			
Surr: Decachlorobiphenyl	0.0904	0	0.1	0	90.4	22-156	0			
Surr: Tetrachloro-m-xylene	0.0834	0	0.1	0	83.4	34-145	0			

MSD		Sample ID: 1305593-18AMSD			Units: mg/Kg		Analysis Date: 6/4/2013			
Client ID: IA#S44-0204		Run ID: GC9_130604B			SeqNo: 624141		Prep Date: 6/1/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.908	0.10	2.004	0	95.2	31-150	1.909	0.0306	53	
Surr: Decachlorobiphenyl	0.09259	0	0.1002	0	92.4	22-156	0.0904	2.39		
Surr: Tetrachloro-m-xylene	0.08617	0	0.1002	0	86	34-145	0.0834	3.27		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305593
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16957** Instrument ID: **GC9** Method: **SW8082**

The following samples were analyzed in this batch:

1305593-02A	1305593-03A	1305593-04A
1305593-05D	1305593-06A	1305593-07A
1305593-08A	1305593-09A	1305593-10A
1305593-11D	1305593-12A	1305593-13A
1305593-14A	1305593-15A	1305593-16A
1305593-17A	1305593-18A	1305593-19A
1305593-20A	1305593-21A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16975 Instrument ID: GC9 Method: SW8082

MBLK		Sample ID: MBLK-16975-16975			Units: mg/Kg		Analysis Date: 6/4/2013			
Client ID:		Run ID: GC9_130604A			SeqNo: 620593		Prep Date: 6/4/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
<i>Surr: Decachlorobiphenyl</i>	0.104	0	0.1	0	104	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.1066	0	0.1	0	107	34-145	0			

LCS		Sample ID: LCS-16975-16975			Units: mg/Kg		Analysis Date: 6/4/2013			
Client ID:		Run ID: GC9_130604A			SeqNo: 620594		Prep Date: 6/4/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.27	0.10	2	0	113	50-133	0			
<i>Surr: Decachlorobiphenyl</i>	0.1004	0	0.1	0	100	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0934	0	0.1	0	93.4	34-145	0			

MS		Sample ID: 1305593-22A MS			Units: mg/Kg		Analysis Date: 6/4/2013			
Client ID: IA#S48-0002		Run ID: GC9_130604A			SeqNo: 620596		Prep Date: 6/4/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.339	0.10	1.992	0	117	31-150	0			
<i>Surr: Decachlorobiphenyl</i>	0.0994	0	0.0996	0	99.8	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.09602	0	0.0996	0	96.4	34-145	0			

MSD		Sample ID: 1305593-22A MSD			Units: mg/Kg		Analysis Date: 6/4/2013			
Client ID: IA#S48-0002		Run ID: GC9_130604A			SeqNo: 620597		Prep Date: 6/4/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.427	0.10	2.008	0	121	31-150	2.339	3.69	53	
<i>Surr: Decachlorobiphenyl</i>	0.1014	0	0.1004	0	101	22-156	0.0994	2		
<i>Surr: Tetrachloro-m-xylene</i>	0.09578	0	0.1004	0	95.4	34-145	0.09602	0.243		

The following samples were analyzed in this batch:

1305593-22A	1305593-23A	1305593-24A
1305593-25D	1305593-26A	1305593-27D
1305593-28D	1305593-29A	1305593-30A
1305593-31A	1305593-32A	1305593-33A
1305593-34A	1305593-35A	1305593-36A
1305593-37A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16953** Instrument ID: **HG1** Method: **SW7471A**

MBLK	Sample ID: MBLK-16953-16953					Units: mg/Kg	Analysis Date: 6/1/2013 02:44 PM			
Client ID:		Run ID: HG1_130601B			SeqNo: 619059	Prep Date: 5/31/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.30

LCS	Sample ID: LCS-16953-16953					Units: mg/Kg	Analysis Date: 6/1/2013 02:40 PM			
Client ID:		Run ID: HG1_130601B			SeqNo: 619057	Prep Date: 5/31/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 1.181 0.29 1.092 0 108 69-147 0

LCSD	Sample ID: LCSD-16953-16953					Units: mg/Kg	Analysis Date: 6/1/2013 02:42 PM			
Client ID:		Run ID: HG1_130601B			SeqNo: 619058	Prep Date: 5/31/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 1.452 0.29 1.092 0 133 69-147 1.181 20.6 20 R

MS	Sample ID: 1305593-05E MS					Units: mg/Kg	Analysis Date: 6/1/2013 02:49 PM			
Client ID: IA#S33-0608		Run ID: HG1_130601B			SeqNo: 619061	Prep Date: 5/31/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.7415 0.30 0.8254 0.009696 88.7 69-147 0

MSD	Sample ID: 1305593-05E MSD					Units: mg/Kg	Analysis Date: 6/1/2013 02:51 PM			
Client ID: IA#S33-0608		Run ID: HG1_130601B			SeqNo: 619062	Prep Date: 5/31/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.6949 0.28 0.7787 0.009696 88 69-147 0.7415 6.49 20

The following samples were analyzed in this batch:

1305593-05E	1305593-11E	1305593-25E
1305593-27E	1305593-28E	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16854** Instrument ID: **ICP3** Method: **SW6010B**

MBLK		Sample ID: mblk-16854-16854			Units: mg/Kg		Analysis Date: 5/29/2013 03:44 PM			
Client ID:		Run ID: ICP3_130529C			SeqNo: 617581		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500								
Antimony	ND	3.0								
Arsenic	ND	5.0								
Barium	ND	10								
Beryllium	ND	0.50								
Cadmium	ND	1.0								
Calcium	ND	500								
Chromium	ND	2.0								
Cobalt	ND	5.0								
Copper	ND	5.0								
Iron	ND	100								
Lead	ND	5.0								
Magnesium	ND	100								
Manganese	ND	5.0								
Nickel	ND	5.0								
Potassium	ND	500								
Selenium	ND	3.0								
Silver	ND	1.0								
Sodium	ND	500								
Vanadium	ND	5.0								
Zinc	ND	5.0								

MBLK		Sample ID: mblk-16854-16854			Units: mg/Kg		Analysis Date: 5/30/2013 11:43 PM			
Client ID:		Run ID: ICP3_130530C			SeqNo: 618487		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	ND	3.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16854** Instrument ID: **ICP3** Method: **SW6010B**

LCS		Sample ID: lcs-16854-16854			Units: mg/Kg		Analysis Date: 5/29/2013 03:50 PM			
Client ID:		Run ID: ICP3_130529C			SeqNo: 617582		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500	100	0	104	80-120	0			
Antimony	95.45	3.0	100	0	95.4	80-120	0			
Arsenic	103	5.0	100	0	103	80-120	0			
Barium	105.3	10	100	0	105	80-120	0			
Beryllium	99.8	0.50	100	0	99.8	80-120	0			
Cadmium	103.6	1.0	100	0	104	80-120	0			
Calcium	ND	500	100	0	102	80-120	0			
Chromium	103	2.0	100	0	103	80-120	0			
Cobalt	101.1	5.0	100	0	101	80-120	0			
Copper	99.33	5.0	100	0	99.3	80-120	0			
Iron	ND	100	100	0	92.2	80-120	0			
Lead	105.2	5.0	100	0	105	80-120	0			
Magnesium	ND	100	100	0	98.4	80-120	0			
Manganese	98.77	5.0	100	0	98.8	80-120	0			
Nickel	101.8	5.0	100	0	102	80-120	0			
Potassium	1027	500	100	0	1030	80-120	0			S
Selenium	103.6	3.0	100	0	104	80-120	0			
Silver	104	1.0	100	0	104	80-120	0			
Sodium	ND	500	100	0	106	80-120	0			
Vanadium	99.17	5.0	100	0	99.2	80-120	0			
Zinc	103.4	5.0	100	0	103	80-120	0			

LCS		Sample ID: lcs-16854-16854			Units: mg/Kg		Analysis Date: 5/30/2013 11:50 PM			
Client ID:		Run ID: ICP3_130530C			SeqNo: 618488		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	101	3.0	100	0	101	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16854** Instrument ID: **ICP3** Method: **SW6010B**

LCSD		Sample ID: lcsd-16854-16854			Units: mg/Kg		Analysis Date: 5/29/2013 03:56 PM			
Client ID:		Run ID: ICP3_130529C			SeqNo: 617583		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500	100	0	96.7	80-120	104	0	20	
Antimony	95.51	3.0	100	0	95.5	80-120	95.45	0.0628	20	
Arsenic	102.7	5.0	100	0	103	80-120	103	0.292	20	
Barium	105.6	10	100	0	106	80-120	105.3	0.284	20	
Beryllium	100.2	0.50	100	0	100	80-120	99.8	0.4	20	
Cadmium	103.7	1.0	100	0	104	80-120	103.6	0.0965	20	
Calcium	ND	500	100	0	102	80-120	101.5	0	20	
Chromium	102.2	2.0	100	0	102	80-120	103	0.78	20	
Cobalt	101.2	5.0	100	0	101	80-120	101.1	0.0989	20	
Copper	99.11	5.0	100	0	99.1	80-120	99.33	0.222	20	
Iron	ND	100	100	0	91.8	80-120	92.23	0	20	
Lead	105	5.0	100	0	105	80-120	105.2	0.19	20	
Magnesium	100.7	100	100	0	101	80-120	98.44	2.27	20	
Manganese	99.36	5.0	100	0	99.4	80-120	98.77	0.596	20	
Nickel	101.4	5.0	100	0	101	80-120	101.8	0.394	20	
Potassium	1039	500	100	0	1040	80-120	1027	1.16	20	S
Selenium	103.2	3.0	100	0	103	80-120	103.6	0.387	20	
Silver	103.6	1.0	100	0	104	80-120	104	0.385	20	
Sodium	ND	500	100	0	106	80-120	106.3	0	20	
Vanadium	99.12	5.0	100	0	99.1	80-120	99.17	0.0504	20	
Zinc	103.2	5.0	100	0	103	80-120	103.4	0.194	20	

LCSD		Sample ID: lcsd-16854-16854			Units: mg/Kg		Analysis Date: 5/30/2013 11:56 PM			
Client ID:		Run ID: ICP3_130530C			SeqNo: 618489		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	101.2	3.0	100	0	101	80-120	101	0.198	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16854** Instrument ID: **ICP3** Method: **SW6010B**

MS		Sample ID: 1305544-04b ms			Units: mg/Kg		Analysis Date: 5/29/2013 04:09 PM			
Client ID:		Run ID: ICP3_130529C			SeqNo: 617585		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	10500	490	98.14	7356	3200	80-120	0			SO
Antimony	75.4	2.9	98.14	-0.378	77.2	75-125	0			
Arsenic	99.71	4.9	98.14	9.03	92.4	75-125	0			
Barium	158.9	9.8	98.14	46.54	114	75-125	0			
Beryllium	95.05	0.49	98.14	0.3737	96.5	75-125	0			
Cadmium	93.4	0.98	98.14	-0.1503	95.3	75-125	0			
Calcium	67100	490	98.14	47250	20200	75-125	0			SEO
Chromium	102.6	2.0	98.14	12.13	92.1	75-125	0			
Cobalt	89.74	4.9	98.14	7.568	83.7	75-125	0			
Copper	99.61	4.9	98.14	19.6	81.5	75-125	0			
Iron	18580	98	98.14	19560	-1000	75-125	0			SO
Lead	93.01	4.9	98.14	9.428	85.2	75-125	0			
Magnesium	7511	98	98.14	8269	-772	75-125	0			SO
Manganese	318.7	4.9	98.14	274.1	45.5	75-125	0			S
Nickel	103.6	4.9	98.14	22.02	83.2	75-125	0			
Potassium	2383	490	98.14	805.9	1610	75-125	0			SO
Selenium	92.97	2.9	98.14	0.9528	93.8	75-125	0			
Silver	93.03	0.98	98.14	-0.2113	95	75-125	0			
Sodium	ND	490	98.14	83.75	112	75-125	0			
Vanadium	111	4.9	98.14	14.08	98.7	75-125	0			
Zinc	134.3	4.9	98.14	51.74	84.2	75-125	0			

MS		Sample ID: 1305544-04b ms			Units: mg/Kg		Analysis Date: 5/31/2013 12:33 AM			
Client ID:		Run ID: ICP3_130530C			SeqNo: 618491		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	76.93	2.9	98.14	0.6045	77.8	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16854 Instrument ID: ICP3 Method: SW6010B

MSD		Sample ID: 1305544-04b msd			Units: mg/Kg		Analysis Date: 5/29/2013 04:15 PM			
Client ID:		Run ID: ICP3_130529C			SeqNo: 617586		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	9444	500	99.34	7356	2100	75-125	10500	10.6	20	SO
Antimony	78.98	3.0	99.34	-0.378	79.9	75-125	75.4	4.64	20	
Arsenic	102.7	5.0	99.34	9.03	94.3	75-125	99.71	2.98	20	
Barium	159.4	9.9	99.34	46.54	114	75-125	158.9	0.356	20	
Beryllium	95.93	0.50	99.34	0.3737	96.2	75-125	95.05	0.914	20	
Cadmium	94.64	0.99	99.34	-0.1503	95.4	75-125	93.4	1.32	20	
Calcium	52830	500	99.34	47250	5620	75-125	67100	23.8	20	SREO
Chromium	103	2.0	99.34	12.13	91.5	75-125	102.6	0.456	20	
Cobalt	91.49	5.0	99.34	7.568	84.5	75-125	89.74	1.92	20	
Copper	103.4	5.0	99.34	19.6	84.4	75-125	99.61	3.75	20	
Iron	19180	99	99.34	19560	-378	75-125	18580	3.21	20	SO
Lead	95.4	5.0	99.34	9.428	86.5	75-125	93.01	2.53	20	
Magnesium	8057	99	99.34	8269	-213	75-125	7511	7.01	20	SO
Manganese	334.1	5.0	99.34	274.1	60.4	75-125	318.7	4.7	20	S
Nickel	105.5	5.0	99.34	22.02	84	75-125	103.6	1.79	20	
Potassium	2170	500	99.34	805.9	1370	75-125	2383	9.36	20	SO
Selenium	94.13	3.0	99.34	0.9528	93.8	75-125	92.97	1.23	20	
Silver	94.32	0.99	99.34	-0.2113	95.2	75-125	93.03	1.37	20	
Sodium	ND	500	99.34	83.75	107	75-125	193.9	0	20	
Vanadium	109.6	5.0	99.34	14.08	96.1	75-125	111	1.28	20	
Zinc	135.3	5.0	99.34	51.74	84.1	75-125	134.3	0.712	20	

MSD		Sample ID: 1305544-04b msd			Units: mg/Kg		Analysis Date: 5/31/2013 12:39 AM			
Client ID:		Run ID: ICP3_130530C			SeqNo: 618492		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	78.72	3.0	99.34	0.6045	78.6	75-125	76.93	2.3	20	

The following samples were analyzed in this batch:

1305593-05e	1305593-11e	1305593-25e
1305593-27e	1305593-28e	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99763f** Instrument ID: **SUB** Method: **SW8081A**

MBLK		Sample ID: MBLK1-R99763f			Units: µg/Kg		Analysis Date: 6/4/2013 09:43 PM			
Client ID:		Run ID: SUB_130613A			SeqNo: 626246		Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	1.6								
4,4'-DDE	ND	1.6								
4,4'-DDT	ND	1.6								
Aldrin	ND	1.6								
alpha-BHC	ND	1.6								
alpha-Chlordane	ND	1.6								
beta-BHC	ND	1.6								
delta-BHC	ND	1.6								
Dieldrin	ND	1.6								
Endosulfan I	ND	1.6								
Endosulfan II	ND	1.6								
Endosulfan sulfate	ND	1.6								
Endrin	ND	1.6								
Endrin aldehyde	ND	1.6								
Endrin ketone	ND	1.6								
gamma-BHC (Lindane)	ND	1.6								
gamma-Chlordane	ND	1.6								
Heptachlor	ND	1.6								
Heptachlor epoxide	ND	1.6								
Methoxychlor	ND	1.6								
Toxaphene	ND	33								
<i>Surr: Decachlorobiphenyl</i>	87	0	100	0	87	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	58.9	0	100	0	58.9	39-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99763f** Instrument ID: **SUB** Method: **SW8081A**

MBLK		Sample ID: MBLK2-R99763f			Units: µg/Kg		Analysis Date: 6/4/2013 10:11 PM			
Client ID:		Run ID: SUB_130613A			SeqNo: 626253		Prep Date: 5/30/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	1.6								
4,4'-DDE	ND	1.6								
4,4'-DDT	ND	1.6								
Aldrin	ND	1.6								
alpha-BHC	ND	1.6								
alpha-Chlordane	ND	1.6								
beta-BHC	ND	1.6								
delta-BHC	ND	1.6								
Dieldrin	ND	1.6								
Endosulfan I	ND	1.6								
Endosulfan II	ND	1.6								
Endosulfan sulfate	ND	1.6								
Endrin	ND	1.6								
Endrin aldehyde	ND	1.6								
Endrin ketone	ND	1.6								
gamma-BHC (Lindane)	ND	1.6								
gamma-Chlordane	ND	1.6								
Heptachlor	ND	1.6								
Heptachlor epoxide	ND	1.6								
Methoxychlor	ND	1.6								
Toxaphene	ND	33								
<i>Surr: Decachlorobiphenyl</i>	80.3	0	100	0	80.3	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	56.4	0	100	0	56.4	39-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99763f** Instrument ID: **SUB** Method: **SW8081A**

LCS		Sample ID: LCS-R99763f			Units: µg/Kg		Analysis Date: 6/4/2013 10:11 PM			
Client ID:		Run ID: SUB_130613A			SeqNo: 626247		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	11.6	1.6	16.7	0	69.5	60-110	0			
4,4'-DDE	11.7	1.6	16.7	0	70.1	55-110	0			
4,4'-DDT	13	1.6	16.7	0	77.8	60-115	0			
Aldrin	10.9	1.6	16.7	0	65.3	50-100	0			
alpha-BHC	10.6	1.6	16.7	0	63.5	50-100	0			
alpha-Chlordane	12.4	1.6	16.7	0	74.3	55-105	0			
beta-BHC	11.6	1.6	16.7	0	69.5	50-100	0			
delta-BHC	11.3	1.6	16.7	0	67.7	50-110	0			
Dieldrin	11.7	1.6	16.7	0	70.1	60-110	0			
Endosulfan I	9.01	1.6	16.7	0	54	40-100	0			
Endosulfan II	9.63	1.6	16.7	0	57.7	40-100	0			
Endosulfan sulfate	14.2	1.6	16.7	0	85	45-115	0			
Endrin	10.9	1.6	16.7	0	65.3	55-100	0			
Endrin aldehyde	11.2	1.6	16.7	0	67.1	45-110	0			
Endrin ketone	12.8	1.6	16.7	0	76.6	55-115	0			
gamma-BHC (Lindane)	12.3	1.6	16.7	0	73.7	50-110	0			
gamma-Chlordane	10.7	1.6	16.7	0	64.1	50-100	0			
Heptachlor	12.5	1.6	16.7	0	74.9	50-105	0			
Heptachlor epoxide	12.6	1.6	16.7	0	75.4	55-105	0			
Methoxychlor	14.3	1.6	16.7	0	85.6	60-125	0			
<i>Surr: Decachlorobiphenyl</i>	88.7	0	100	0	88.7	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	57.5	0	100	0	57.5	39-130	0			

LCS		Sample ID: LCS-R99763f			Units: µg/Kg		Analysis Date: 6/4/2013 10:39 PM			
Client ID:		Run ID: SUB_130613A			SeqNo: 626255		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Toxaphene	58.8	33	66.7	0	88.2	25-138	0			
<i>Surr: Decachlorobiphenyl</i>	97.2	0	100	0	97.2	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	57.1	0	100	0	57.1	39-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99763f** Instrument ID: **SUB** Method: **SW8081A**

LCSD	Sample ID: LCSD-R99763f	Units: µg/Kg					Analysis Date: 6/4/2013 10:39 PM				
Client ID:	Run ID: SUB_130613A	SeqNo: 626254			Prep Date:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
4,4'-DDD	12.2	1.6	16.7	0	73.1	60-110	11.6	5.04	30		
4,4'-DDE	11.7	1.6	16.7	0	70.1	55-110	11.7	0	30		
4,4'-DDT	13.6	1.6	16.7	0	81.4	60-115	13	4.51	30		
Aldrin	10.1	1.6	16.7	0	60.5	50-100	10.9	7.62	30		
alpha-BHC	10.8	1.6	16.7	0	64.7	50-100	10.6	1.87	30		
alpha-Chlordane	10.9	1.6	16.7	0	65.3	55-105	12.4	12.9	30		
beta-BHC	11.2	1.6	16.7	0	67.1	50-100	11.6	3.51	30		
delta-BHC	11.4	1.6	16.7	0	68.3	50-110	11.3	0.881	30		
Dieldrin	11.5	1.6	16.7	0	68.9	60-110	11.7	1.72	30		
Endosulfan I	8.66	1.6	16.7	0	51.9	40-100	9.01	3.96	30		
Endosulfan II	9.5	1.6	16.7	0	56.9	40-100	9.63	1.36	30		
Endosulfan sulfate	11.9	1.6	16.7	0	71.3	45-115	14.2	17.6	30		
Endrin	11.9	1.6	16.7	0	71.3	55-100	10.9	8.77	30		
Endrin aldehyde	10.9	1.6	16.7	0	65.3	45-110	11.2	2.71	30		
Endrin ketone	12.2	1.6	16.7	0	73.1	55-115	12.8	4.8	30		
gamma-BHC (Lindane)	14.1	1.6	16.7	0	84.4	50-110	12.3	13.6	30		
gamma-Chlordane	11.2	1.6	16.7	0	67.1	50-100	10.7	4.57	30		
Heptachlor	11.3	1.6	16.7	0	67.7	50-105	12.5	10.1	30		
Heptachlor epoxide	12.2	1.6	16.7	0	73.1	55-105	12.6	3.23	30		
Methoxychlor	18.6	1.6	16.7	0	111	60-125	14.3	26.1	30		
<i>Surr: Decachlorobiphenyl</i>	79.6	0	100	0	79.6	33-143	88.7	10.8			
<i>Surr: Tetrachloro-m-xylene</i>	54.3	0	100	0	54.3	39-130	57.5	5.72			

The following samples were analyzed in this batch:

1305593-05B	1305593-11B	1305593-25B
1305593-27B	1305593-28B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99763g** Instrument ID: **SUB** Method: **SW8151**

MBLK		Sample ID: MBLK-R99763g			Units: µg/Kg		Analysis Date: 6/4/2013 10:58 AM			
Client ID:		Run ID: SUB_130613A			SeqNo: 626256		Prep Date: 5/31/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	ND	4.0								
2,4,5-TP (Silvex)	ND	3.0								
2,4-D	ND	40								
2,4-DB	ND	40								
Dalapon	ND	100								
Dicamba	ND	4.0								
Dichlorprop	ND	40								
Dinoseb	ND	20								
MCPA	ND	4,000								
MCPP	ND	4,000								
Pentachlorophenol	ND	4.0								
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	85.9	0	100	0	85.9	25-110	0			

LCS		Sample ID: LCS-R99763g			Units: µg/Kg		Analysis Date: 6/4/2013 11:23 AM			
Client ID:		Run ID: SUB_130613A			SeqNo: 626257		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	7.71	4.0	10	0	77.1	25-120	0			
2,4,5-TP (Silvex)	7.37	3.0	10	0	73.7	30-125	0			
2,4-D	63.4	40	100	0	63.4	15-120	0			
2,4-DB	1780	40	100	0	1780	20-125	0			S
Dalapon	142	100	250	0	56.8	10-105	0			
Dicamba	8.42	4.0	10	0	84.2	45-150	0			
Dichlorprop	81.7	40	100	0	81.7	20-130	0			
Dinoseb	38.1	20	50	0	76.2	25-125	0			
MCPA	6480	4,000	10000	0	64.8	10-120	0			
MCPP	6900	4,000	10000	0	69	10-130	0			
Pentachlorophenol	6.36	4.0	10	0	63.6	30-110	0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	101	0	100	0	101	25-110	0			

The following samples were analyzed in this batch:

1305593-05B	1305593-11B	1305593-25B
1305593-27B	1305593-28B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16935 Instrument ID: SVMS2 Method: SW8270C

MBLK		Sample ID: MBLK-16935-16935			Units: µg/Kg		Analysis Date: 5/31/2013 08:10 PM			
Client ID:		Run ID: SVMS2_130531A			SeqNo: 619488		Prep Date: 5/31/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	330								
1,2,4-Trichlorobenzene	ND	330								
1,2-Dichlorobenzene	ND	330								
1,3-Dichlorobenzene	ND	330								
1,3-Dinitrobenzene	ND	330								
1,4-Dichlorobenzene	ND	330								
1-Methylnaphthalene	ND	330								
1-Naphthylamine	ND	330								
2,3,4,6-Tetrachlorophenol	ND	330								
2,4,5-Trichlorophenol	ND	330								
2,4,6-Trichlorophenol	ND	330								
2,4-Dichlorophenol	ND	330								
2,4-Dimethylphenol	ND	330								
2,4-Dinitrophenol	ND	1,600								
2,4-Dinitrotoluene	ND	330								
2,6-Dichlorophenol	ND	330								
2,6-Dinitrotoluene	ND	330								
2-Acetylaminofluorene	ND	330								
2-Chloronaphthalene	ND	330								
2-Chlorophenol	ND	330								
2-Methylnaphthalene	ND	330								
2-Methylphenol	ND	330								
2-Naphthylamine	ND	330								
2-Nitroaniline	ND	1,600								
2-Nitrophenol	ND	330								
2-Picoline	ND	330								
3&4-Methylphenol	ND	330								
3,3'-Dichlorobenzidine	ND	660								
3-Methylcholanthrene	ND	330								
3-Nitroaniline	ND	1,600								
4,6-Dinitro-2-methylphenol	ND	1,600								
4-Aminobiphenyl	ND	660								
4-Bromophenyl phenyl ether	ND	330								
4-Chloro-3-methylphenol	ND	660								
4-Chloroaniline	ND	660								
4-Chlorophenyl phenyl ether	ND	330								
4-Nitroaniline	ND	660								
4-Nitrophenol	ND	1,600								
4-Nitroquinoline 1-oxide	ND	330								
5-Nitro-o-toluidine	ND	330								
7,12-Dimethylbenz(a)anthracene	ND	330								
Acenaphthene	ND	330								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305593
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16935	Instrument ID: SVMS2	Method: SW8270C
Acenaphthylene	ND	330
Acetophenone	ND	330
Aniline	ND	330
Anthracene	ND	330
Azobenzene	ND	330
Benzidine	ND	330
Benzo(a)anthracene	ND	330
Benzo(a)pyrene	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(g,h,i)perylene	ND	330
Benzo(k)fluoranthene	ND	330
Benzyl alcohol	ND	660
Bis(2-chloroethoxy)methane	ND	330
Bis(2-chloroethyl)ether	ND	330
Bis(2-chloroisopropyl)ether	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Butyl benzyl phthalate	ND	330
Carbazole	ND	330
Chrysene	ND	330
Dibenzo(a,h)anthracene	ND	330
Dibenzofuran	ND	330
Diethyl phthalate	ND	330
Dimethyl phthalate	ND	330
Di-n-butyl phthalate	ND	330
Di-n-octyl phthalate	ND	330
Dinoseb	ND	330
Diphenylamine	ND	330
Ethyl methanesulfonate	ND	330
Fluoranthene	ND	330
Fluorene	ND	330
Hexachlorobenzene	ND	330
Hexachlorobutadiene	ND	330
Hexachlorocyclopentadiene	ND	330
Hexachloroethane	ND	330
Indeno(1,2,3-cd)pyrene	ND	150
Isophorone	ND	330
Isosafrole	ND	330
Methapyrilene	ND	330
Methyl methanesulfonate	ND	330
Naphthalene	ND	330
Nitrobenzene	ND	330
N-Nitrosodiethylamine	ND	330
N-Nitrosodimethylamine	ND	330
N-Nitroso-di-n-butylamine	ND	330
N-Nitrosodi-n-propylamine	ND	330
N-Nitrosomethylethylamine	ND	330
N-Nitrosomorpholine	ND	330
N-Nitrosopiperidine	ND	330

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305593
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16935	Instrument ID: SVMS2	Method: SW8270C					
N-Nitrosopyrrolidine	ND	330					
o-Toluidine	ND	330					
p-Dimethylaminoazobenzene	ND	330					
Pentachlorobenzene	ND	330					
Pentachloroethane	ND	330					
Pentachloronitrobenzene	ND	660					
Pentachlorophenol	ND	1,600					
Phenacetin	ND	660					
Phenanthrene	ND	330					
Phenol	ND	330					
Pyrene	ND	330					
Pyridine	ND	330					
Safrole	ND	330					
<i>Surr: 2,4,6-Tribromophenol</i>	2653	0	3330	0	79.7	18-115	0
<i>Surr: 2-Fluorobiphenyl</i>	1361	0	1670	0	81.5	30-116	0
<i>Surr: 2-Fluorophenol</i>	2146	0	3330	0	64.4	24-105	0
<i>Surr: 4-Terphenyl-d14</i>	1239	0	1670	0	74.2	40-127	0
<i>Surr: Nitrobenzene-d5</i>	1610	0	1670	0	96.4	32-106	0
<i>Surr: Phenol-d5</i>	2634	0	3330	0	79.1	39-123	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16935 Instrument ID: SVMS2 Method: SW8270C

LCS		Sample ID: LCS-16935-16935			Units: µg/Kg		Analysis Date: 5/31/2013 08:46 PM			
Client ID:		Run ID: SVMS2_130531A			SeqNo: 619489		Prep Date: 5/31/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1340	330	1670	0	80.2	48.1-106	0			
1,4-Dichlorobenzene	1303	330	1670	0	78	55.5-89.4	0			
2,4-Dinitrotoluene	1461	330	1670	0	87.5	58.8-123	0			
2-Chlorophenol	1221	330	1670	0	73.1	34.7-116	0			
4-Chloro-3-methylphenol	1496	660	1670	0	89.6	32.1-109	0			
4-Nitrophenol	1778	1,600	1670	0	106	36.2-146	0			
Acenaphthene	1376	330	1670	0	82.4	67.8-104	0			
Acenaphthylene	1381	330	1670	0	82.7	65.6-103	0			
Anthracene	1389	330	1670	0	83.2	71.1-107	0			
Benzo(a)anthracene	1380	330	1670	0	82.6	60.4-118	0			
Benzo(a)pyrene	1611	330	1670	0	96.4	73.7-110	0			
Benzo(b)fluoranthene	1412	330	1670	0	84.5	59.9-94.8	0			
Benzo(g,h,i)perylene	1808	330	1670	0	108	40-129	0			
Benzo(k)fluoranthene	1499	330	1670	0	89.7	75.7-130	0			
Carbazole	1747	330	1670	0	105	69.6-107	0			
Chrysene	1362	330	1670	0	81.6	62.3-115	0			
Dibenzo(a,h)anthracene	1680	330	1670	0	101	59.2-121	0			
Fluoranthene	1548	330	1670	0	92.7	63-120	0			
Fluorene	1408	330	1670	0	84.3	69-106	0			
Indeno(1,2,3-cd)pyrene	1800	150	1670	0	108	59-110	0			
Naphthalene	1334	330	1670	0	79.9	49.1-103	0			
N-Nitrosodi-n-propylamine	1497	330	1670	0	89.6	25.3-127	0			
Pentachlorophenol	1730	1,600	1670	0	104	22.1-105	0			
Phenanthrene	1399	330	1670	0	83.8	70-112	0			
Phenol	1263	330	1670	0	75.6	36.9-97.8	0			
Pyrene	1468	330	1670	0	87.9	55-117	0			
Surr: 2,4,6-Tribromophenol	2587	0	3330	0	77.7	18-115	0			
Surr: 2-Fluorobiphenyl	1398	0	1670	0	83.7	30-116	0			
Surr: 2-Fluorophenol	2505	0	3330	0	75.2	24-105	0			
Surr: 4-Terphenyl-d14	1318	0	1670	0	78.9	40-127	0			
Surr: Nitrobenzene-d5	1426	0	1670	0	85.4	32-106	0			
Surr: Phenol-d5	2593	0	3330	0	77.9	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16935 Instrument ID: SVMS2 Method: SW8270C

MS		Sample ID: ms 1305544-44b			Units: µg/Kg		Analysis Date: 5/31/2013 09:22 PM			
Client ID:		Run ID: SVMS2_130531A			SeqNo: 619490		Prep Date: 5/31/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1204	330	1669	0	72.2	50.6-92	0			
1,4-Dichlorobenzene	1152	330	1669	0	69	40.1-84.3	0			
2,4-Dinitrotoluene	1440	330	1669	0	86.3	50.3-127	0			
2-Chlorophenol	1139	330	1669	0	68.2	33.3-109	0			
4-Chloro-3-methylphenol	1417	660	1669	0	84.9	35.8-116	0			
4-Nitrophenol	ND	1,600	1669	0	90.8	38.7-135	0			
Acenaphthene	1356	330	1669	0	81.3	54.1-109	0			
Acenaphthylene	1257	330	1669	0	75.3	55.3-118	0			
Anthracene	1380	330	1669	0	82.7	51-106	0			
Benzo(a)anthracene	1532	330	1669	0	91.8	31.6-128	0			
Benzo(a)pyrene	1414	330	1669	0	84.7	66.1-109	0			
Benzo(b)fluoranthene	1480	330	1669	0	88.7	56.8-87.8	0			S
Benzo(g,h,i)perylene	1346	330	1669	0	80.6	37.7-113	0			
Benzo(k)fluoranthene	1504	330	1669	0	90.1	57-119	0			
Carbazole	1509	330	1669	0	90.4	28.5-114	0			
Chrysene	1617	330	1669	0	96.9	46.3-104	0			
Dibenzo(a,h)anthracene	1256	330	1669	0	75.3	48.8-123	0			
Fluoranthene	1157	330	1669	0	69.3	52-120	0			
Fluorene	1320	330	1669	0	79.1	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1244	150	1669	0	74.5	56.1-118	0			
Naphthalene	1247	330	1669	0	74.7	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1356	330	1669	0	81.3	46.5-116	0			
Pentachlorophenol	ND	1,600	1669	0	92.8	28.9-156	0			
Phenanthrene	1416	330	1669	0	84.9	52-105	0			
Phenol	1183	330	1669	0	70.9	25.9-90.3	0			
Pyrene	1087	330	1669	0	65.1	51-111	0			
<i>Surr: 2,4,6-Tribromophenol</i>	2750	0	3328	0	82.6	18-115	0			
<i>Surr: 2-Fluorobiphenyl</i>	1190	0	1669	0	71.3	30-116	0			
<i>Surr: 2-Fluorophenol</i>	2263	0	3328	0	68	24-105	0			
<i>Surr: 4-Terphenyl-d14</i>	927.7	0	1669	0	55.6	40-127	0			
<i>Surr: Nitrobenzene-d5</i>	1246	0	1669	0	74.7	32-106	0			
<i>Surr: Phenol-d5</i>	2282	0	3328	0	68.6	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16935 Instrument ID: SVMS2 Method: SW8270C

MSD		Sample ID: MSD 1305544-44B			Units: µg/Kg		Analysis Date: 6/3/2013 07:08 PM			
Client ID:		Run ID: SVMS2_130603A			SeqNo: 620344		Prep Date: 5/31/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1230	330	1672	0	73.6	50.6-92	0			
1,4-Dichlorobenzene	1178	330	1672	0	70.5	40.1-84.3	0			
2,4-Dinitrotoluene	1555	330	1672	0	93	50.3-127	0			
2-Chlorophenol	1289	330	1672	0	77.1	33.3-109	0			
4-Chloro-3-methylphenol	1326	660	1672	0	79.3	35.8-116	0			
4-Nitrophenol	ND	1,700	1672	0	91.9	38.7-135	0			
Acenaphthene	1367	330	1672	0	81.8	54.1-109	0			
Acenaphthylene	1283	330	1672	0	76.7	55.3-118	0			
Anthracene	1368	330	1672	0	81.8	51-106	0			
Benzo(a)anthracene	1652	330	1672	0	98.8	31.6-128	0			
Benzo(a)pyrene	1368	330	1672	0	81.9	66.1-109	0			
Benzo(b)fluoranthene	1427	330	1672	0	85.4	56.8-87.8	0			
Benzo(g,h,i)perylene	1426	330	1672	0	85.3	37.7-113	0			
Benzo(k)fluoranthene	1349	330	1672	0	80.7	57-119	0			
Carbazole	1448	330	1672	0	86.6	28.5-114	0			
Chrysene	1613	330	1672	0	96.5	46.3-104	0			
Dibenzo(a,h)anthracene	1299	330	1672	0	77.7	48.8-123	0			
Fluoranthene	1219	330	1672	0	72.9	52-120	0			
Fluorene	1352	330	1672	0	80.9	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1295	150	1672	0	77.5	56.1-118	0			
Naphthalene	1282	330	1672	0	76.7	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1390	330	1672	0	83.2	46.5-116	0			
Pentachlorophenol	ND	1,700	1672	0	91.2	28.9-156	0			
Phenanthrene	1436	330	1672	0	85.9	52-105	0			
Phenol	1190	330	1672	0	71.2	25.9-90.3	0			
Pyrene	1075	330	1672	0	64.3	51-111	0			
<i>Surr: 2,4,6-Tribromophenol</i>	2206	0	3333	0	66.2	18-115	0			
<i>Surr: 2-Fluorobiphenyl</i>	1191	0	1672	0	71.2	30-116	0			
<i>Surr: 2-Fluorophenol</i>	2309	0	3333	0	69.3	24-105	0			
<i>Surr: 4-Terphenyl-d14</i>	895.9	0	1672	0	53.6	40-127	0			
<i>Surr: Nitrobenzene-d5</i>	1361	0	1672	0	81.4	32-106	0			
<i>Surr: Phenol-d5</i>	2084	0	3333	0	62.5	39-123	0			

The following samples were analyzed in this batch:

1305593-05d	1305593-11d	1305593-25d
1305593-27d	1305593-28d	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99475** Instrument ID: **VMS2** Method: **SW8260**

MBLK		Sample ID: MBLK-R99475		Units: µg/Kg		Analysis Date: 5/31/2013 09:18 AM				
Client ID:		Run ID: VMS2_130531A		SeqNo: 619073		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305593
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99475	Instrument ID: VMS2	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	5.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	45.81	0	50	0	91.6	62.7-159	0
<i>Surr: Dibromofluoromethane</i>	44.32	0	50	0	88.6	88.2-133	0
<i>Surr: Toluene-d8</i>	47.56	0	50	0	95.1	81.5-110	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99475** Instrument ID: **VMS2** Method: **SW8260**

LCS		Sample ID: LCS-R99475			Units: µg/Kg		Analysis Date: 5/31/2013 07:46 AM			
Client ID:		Run ID: VMS2_130531A			SeqNo: 619070		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	41.61	5.0	50	0	83.2	70-132	0			
1,1-Dichloroethene	41.5	5.0	50	0	83	61.2-140	0			
1,2-Dichloroethane	43.93	5.0	50	0	87.9	67.3-139	0			
1,3-Dichlorobenzene	45.29	5.0	50	0	90.6	67.5-126	0			
1,4-Dichlorobenzene	45.61	5.0	50	0	91.2	69.5-124	0			
Benzene	42.78	5.0	50	0	85.6	67.2-135	0			
Carbon tetrachloride	42.99	5.0	50	0	86	68.6-138	0			
Chlorobenzene	45.09	5.0	50	0	90.2	66.4-133	0			
Chloroform	41.45	5.0	50	0	82.9	68.2-127	0			
cis-1,2-Dichloroethene	41.08	5.0	50	0	82.2	62.1-135	0			
Ethylbenzene	43.62	5.0	50	0	87.2	67.8-132	0			
m,p-Xylene	86.32	5.0	100	0	86.3	66.4-132	0			
Styrene	44.84	5.0	50	0	89.7	67.6-134	0			
Tetrachloroethene	47.94	5.0	50	0	95.9	70.3-144	0			
Toluene	41.44	5.0	50	0	82.9	67.8-130	0			
Trichloroethene	43.88	5.0	50	0	87.8	68.5-136	0			
Surr: 4-Bromofluorobenzene	46.22	0	50	0	92.4	62.7-159	0			
Surr: Dibromofluoromethane	47.08	0	50	0	94.2	88.2-133	0			
Surr: Toluene-d8	46.31	0	50	0	92.6	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99475** Instrument ID: **VMS2** Method: **SW8260**

MS		Sample ID: 1305557-07A MS			Units: µg/Kg		Analysis Date: 5/31/2013 08:16 AM			
Client ID:		Run ID: VMS2_130531A			SeqNo: 619071		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	45.92	5.0	50	0	91.8	66.9-140	0			
1,1-Dichloroethene	45.12	5.0	50	0	90.2	65.9-143	0			
1,2-Dichloroethane	50.14	5.0	50	0	100	73-135	0			
1,3-Dichlorobenzene	48.42	5.0	50	0	96.8	61.2-125	0			
1,4-Dichlorobenzene	49.05	5.0	50	0	98.1	62.3-123	0			
Benzene	46.11	5.0	50	0	92.2	35.8-162	0			
Carbon tetrachloride	48.87	5.0	50	0	97.7	71.4-130	0			
Chlorobenzene	47.56	5.0	50	0	95.1	65.6-137	0			
Chloroform	45.55	5.0	50	0	91.1	69.6-128	0			
cis-1,2-Dichloroethene	45.63	5.0	50	0	91.3	68.8-130	0			
Ethylbenzene	46.83	5.0	50	0	93.7	68.6-124	0			
m,p-Xylene	95.08	5.0	100	0	95.1	64.5-125	0			
Styrene	49.52	5.0	50	0	99	65.9-125	0			
Tetrachloroethene	50.26	5.0	50	0	101	71.6-135	0			
Toluene	44.91	5.0	50	0	89.8	67.7-135	0			
Trichloroethene	48.28	5.0	50	0	96.6	70.9-139	0			
<i>Surr: 4-Bromofluorobenzene</i>	46.13	0	50	0	92.3	62.7-159	0			
<i>Surr: Dibromofluoromethane</i>	47.46	0	50	0	94.9	88.2-133	0			
<i>Surr: Toluene-d8</i>	46.93	0	50	0	93.9	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99475** Instrument ID: **VMS2** Method: **SW8260**

MSD		Sample ID: 1305557-07A MSD			Units: µg/Kg		Analysis Date: 5/31/2013 08:47 AM			
Client ID:		Run ID: VMS2_130531A			SeqNo: 619072		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	37.56	5.0	50	0	75.1	66.9-140	45.92	20	20	R
1,1-Dichloroethene	38.78	5.0	50	0	77.6	65.9-143	45.12	15.1	20	
1,2-Dichloroethane	41.22	5.0	50	0	82.4	73-135	50.14	19.5	20	
1,3-Dichlorobenzene	43.55	5.0	50	0	87.1	61.2-125	48.42	10.6	21	
1,4-Dichlorobenzene	42.11	5.0	50	0	84.2	62.3-123	49.05	15.2	22.5	
Benzene	38.25	5.0	50	0	76.5	35.8-162	46.11	18.6	23.6	
Carbon tetrachloride	37.93	5.0	50	0	75.9	71.4-130	48.87	25.2	22.9	R
Chlorobenzene	40.81	5.0	50	0	81.6	65.6-137	47.56	15.3	20	
Chloroform	39.73	5.0	50	0	79.5	69.6-128	45.55	13.6	23.1	
cis-1,2-Dichloroethene	39.58	5.0	50	0	79.2	68.8-130	45.63	14.2	23.7	
Ethylbenzene	40.4	5.0	50	0	80.8	68.6-124	46.83	14.7	24.9	
m,p-Xylene	81.23	5.0	100	0	81.2	64.5-125	95.08	15.7	25.1	
Styrene	42.34	5.0	50	0	84.7	65.9-125	49.52	15.6	22.8	
Tetrachloroethene	41.24	5.0	50	0	82.5	71.6-135	50.26	19.7	24.7	
Toluene	37.5	5.0	50	0	75	67.7-135	44.91	18	20	
Trichloroethene	38.27	5.0	50	0	76.5	70.9-139	48.28	23.1	20	R
<i>Surr: 4-Bromofluorobenzene</i>	50.04	0	50	0	100	62.7-159	46.13	8.13		
<i>Surr: Dibromofluoromethane</i>	51.17	0	50	0	102	88.2-133	47.46	7.52		
<i>Surr: Toluene-d8</i>	46.79	0	50	0	93.6	81.5-110	46.93	0.299		

The following samples were analyzed in this batch:

1305593-05A	1305593-11A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99476** Instrument ID: **VMS1** Method: **SW8260**

MBLK		Sample ID: MBLK-R99476			Units: µg/L		Analysis Date: 5/31/2013 10:39 AM			
Client ID:		Run ID: VMS1_130531B			SeqNo: 619100		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305593
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99476	Instrument ID: VMS1	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	2.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	49.14	0	50	0	98.3	61-131	0
<i>Surr: Dibromofluoromethane</i>	48.7	0	50	0	97.4	87-126	0
<i>Surr: Toluene-d8</i>	51.4	0	50	0	103	84-111	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99476** Instrument ID: **VMS1** Method: **SW8260**

LCS		Sample ID: LCS-R99476			Units: µg/L		Analysis Date: 5/31/2013 07:40 AM			
Client ID:		Run ID: VMS1_130531B			SeqNo: 619094		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	53.29	5.0	50	0	107	48.4-140	0			
1,1-Dichloroethene	50.82	5.0	50	0	102	45.5-150	0			
1,2-Dichloroethane	50.01	5.0	50	0	100	46.5-141	0			
1,3-Dichlorobenzene	43.77	5.0	50	0	87.5	42.5-133	0			
1,4-Dichlorobenzene	44.04	5.0	50	0	88.1	38.9-136	0			
Benzene	48.65	5.0	50	0	97.3	50.7-134	0			
Carbon tetrachloride	55.11	5.0	50	0	110	45.5-143	0			
Chlorobenzene	45.3	5.0	50	0	90.6	45-133	0			
Chloroform	50.34	5.0	50	0	101	52.4-136	0			
cis-1,2-Dichloroethene	49.88	5.0	50	0	99.8	49.7-138	0			
Ethylbenzene	47.02	5.0	50	0	94	37.8-145	0			
m,p-Xylene	98.04	5.0	100	0	98	25.1-163	0			
Styrene	49.81	5.0	50	0	99.6	26.3-172	0			
Tetrachloroethene	45.93	5.0	50	0	91.9	37.3-139	0			
Toluene	51.02	5.0	50	0	102	44-135	0			
Trichloroethene	48.97	5.0	50	0	97.9	46.9-134	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.89	0	50	0	99.8	61-131	0			
<i>Surr: Dibromofluoromethane</i>	49.73	0	50	0	99.5	87-126	0			
<i>Surr: Toluene-d8</i>	52.42	0	50	0	105	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99476** Instrument ID: **VMS1** Method: **SW8260**

MS		Sample ID: 1305543-02A MS			Units: µg/L		Analysis Date: 5/31/2013 09:39 AM			
Client ID:		Run ID: VMS1_130531B			SeqNo: 619098		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	53.6	5.0	50	0	107	47.4-141	0			
1,1-Dichloroethene	50.33	5.0	50	0	101	56.3-140	0			
1,2-Dichloroethane	51.51	5.0	50	0	103	50.1-139	0			
1,3-Dichlorobenzene	44.74	5.0	50	0	89.5	53-127	0			
1,4-Dichlorobenzene	44.74	5.0	50	0	89.5	53.4-129	0			
Benzene	49.71	5.0	50	0	99.4	52.8-136	0			
Carbon tetrachloride	55.3	5.0	50	0	111	48.1-141	0			
Chlorobenzene	45.72	5.0	50	0	91.4	52.4-132	0			
Chloroform	51.8	5.0	50	0	104	52.9-136	0			
cis-1,2-Dichloroethene	50.28	5.0	50	0	101	63.5-128	0			
Ethylbenzene	46.8	5.0	50	0	93.6	46.5-146	0			
m,p-Xylene	97.73	5.0	100	0	97.7	38.2-167	0			
Styrene	49.43	5.0	50	0	98.9	20.9-184	0			
Tetrachloroethene	44.56	5.0	50	0	89.1	55.2-134	0			
Toluene	51.28	5.0	50	0	103	45.1-138	0			
Trichloroethene	51.05	5.0	50	0	102	52.8-133	0			
<i>Surr: 4-Bromofluorobenzene</i>	50.59	0	50	0	101	61-131	0			
<i>Surr: Dibromofluoromethane</i>	51.06	0	50	0	102	87-126	0			
<i>Surr: Toluene-d8</i>	52.81	0	50	0	106	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99476** Instrument ID: **VMS1** Method: **SW8260**

MSD		Sample ID: 1305543-02A MSD			Units: µg/L		Analysis Date: 5/31/2013 10:09 AM			
Client ID:		Run ID: VMS1_130531B			SeqNo: 619099		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	40.22	5.0	50	0	80.4	47.4-141	53.6	28.5	20	R
1,1-Dichloroethene	39.89	5.0	50	0	79.8	56.3-140	50.33	23.1	20	R
1,2-Dichloroethane	41.88	5.0	50	0	83.8	50.1-139	51.51	20.6	20	R
1,3-Dichlorobenzene	31.24	5.0	50	0	62.5	53-127	44.74	35.5	20	R
1,4-Dichlorobenzene	31.69	5.0	50	0	63.4	53.4-129	44.74	34.1	20	R
Benzene	38.77	5.0	50	0	77.5	52.8-136	49.71	24.7	20	R
Carbon tetrachloride	41.32	5.0	50	0	82.6	48.1-141	55.3	28.9	20	R
Chlorobenzene	34.45	5.0	50	0	68.9	52.4-132	45.72	28.1	20	R
Chloroform	39.97	5.0	50	0	79.9	52.9-136	51.8	25.8	20	R
cis-1,2-Dichloroethene	39.77	5.0	50	0	79.5	63.5-128	50.28	23.3	20	R
Ethylbenzene	34.28	5.0	50	0	68.6	46.5-146	46.8	30.9	20	R
m,p-Xylene	71.45	5.0	100	0	71.4	38.2-167	97.73	31.1	20	R
Styrene	36.01	5.0	50	0	72	20.9-184	49.43	31.4	20	R
Tetrachloroethene	33.37	5.0	50	0	66.7	55.2-134	44.56	28.7	20	R
Toluene	37.9	5.0	50	0	75.8	45.1-138	51.28	30	20	R
Trichloroethene	38.74	5.0	50	0	77.5	52.8-133	51.05	27.4	20	R
<i>Surr: 4-Bromofluorobenzene</i>	48.39	0	50	0	96.8	61-131	50.59	4.45		
<i>Surr: Dibromofluoromethane</i>	52.33	0	50	0	105	87-126	51.06	2.46		
<i>Surr: Toluene-d8</i>	52.79	0	50	0	106	84-111	52.81	0.0379		

The following samples were analyzed in this batch:

1305593-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99497** Instrument ID: **VMS2** Method: **SW8260**

MBLK		Sample ID: MBLK-R99497			Units: µg/Kg		Analysis Date: 6/3/2013 11:02 AM			
Client ID:		Run ID: VMS2_130603A			SeqNo: 619540		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305593
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99497	Instrument ID: VMS2	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	5.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	46.85	0	50	0	93.7	62.7-159	0
<i>Surr: Dibromofluoromethane</i>	48.74	0	50	0	97.5	88.2-133	0
<i>Surr: Toluene-d8</i>	48.98	0	50	0	98	81.5-110	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99497** Instrument ID: **VMS2** Method: **SW8260**

LCS		Sample ID: LCS-R99497			Units: µg/Kg		Analysis Date: 6/3/2013 10:31 AM			
Client ID:		Run ID: VMS2_130603A			SeqNo: 619539		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.78	5.0	50	0	97.6	70-132	0			
1,1-Dichloroethene	49.1	5.0	50	0	98.2	61.2-140	0			
1,2-Dichloroethane	46.3	5.0	50	0	92.6	67.3-139	0			
1,3-Dichlorobenzene	46.44	5.0	50	0	92.9	67.5-126	0			
1,4-Dichlorobenzene	47.24	5.0	50	0	94.5	69.5-124	0			
Benzene	45.26	5.0	50	0	90.5	67.2-135	0			
Carbon tetrachloride	49.81	5.0	50	0	99.6	68.6-138	0			
Chlorobenzene	47.39	5.0	50	0	94.8	66.4-133	0			
Chloroform	47.79	5.0	50	0	95.6	68.2-127	0			
cis-1,2-Dichloroethene	49.5	5.0	50	0	99	62.1-135	0			
Ethylbenzene	48.16	5.0	50	0	96.3	67.8-132	0			
m,p-Xylene	97	5.0	100	0	97	66.4-132	0			
Styrene	47.72	5.0	50	0	95.4	67.6-134	0			
Tetrachloroethene	48.82	5.0	50	0	97.6	70.3-144	0			
Toluene	46.09	5.0	50	0	92.2	67.8-130	0			
Trichloroethene	46.88	5.0	50	0	93.8	68.5-136	0			
Surr: 4-Bromofluorobenzene	54.28	0	50	0	109	62.7-159	0			
Surr: Dibromofluoromethane	51.85	0	50	0	104	88.2-133	0			
Surr: Toluene-d8	50.76	0	50	0	102	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99497** Instrument ID: **VMS2** Method: **SW8260**

MS		Sample ID: 1305447-01A MS			Units: µg/Kg		Analysis Date: 6/3/2013 11:34 AM			
Client ID:		Run ID: VMS2_130603A			SeqNo: 619541		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	56.54	5.0	50	0	113	66.9-140	0			
1,1-Dichloroethene	56.31	5.0	50	0	113	65.9-143	0			
1,2-Dichloroethane	55.96	5.0	50	0	112	73-135	0			
1,3-Dichlorobenzene	50.4	5.0	50	0	101	61.2-125	0			
1,4-Dichlorobenzene	48.97	5.0	50	0	97.9	62.3-123	0			
Benzene	51.87	5.0	50	0	104	35.8-162	0			
Carbon tetrachloride	58.56	5.0	50	0	117	71.4-130	0			
Chlorobenzene	52.26	5.0	50	0	105	65.6-137	0			
Chloroform	50.82	5.0	50	0	102	69.6-128	0			
cis-1,2-Dichloroethene	53.45	5.0	50	0	107	68.8-130	0			
Ethylbenzene	54.22	5.0	50	0	108	68.6-124	0			
m,p-Xylene	108.3	5.0	100	0	108	64.5-125	0			
Styrene	51.97	5.0	50	0	104	65.9-125	0			
Tetrachloroethene	54.68	5.0	50	0	109	71.6-135	0			
Toluene	51.81	5.0	50	0	104	67.7-135	0			
Trichloroethene	56.11	5.0	50	0	112	70.9-139	0			
<i>Surr: 4-Bromofluorobenzene</i>	51.86	0	50	0	104	62.7-159	0			
<i>Surr: Dibromofluoromethane</i>	50.08	0	50	0	100	88.2-133	0			
<i>Surr: Toluene-d8</i>	50	0	50	0	100	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305593
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99497** Instrument ID: **VMS2** Method: **SW8260**

MSD		Sample ID: 1305447-01A MSD			Units: µg/Kg		Analysis Date: 6/3/2013 12:05 PM			
Client ID:		Run ID: VMS2_130603A			SeqNo: 619542		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	55.32	5.0	50	0	111	66.9-140	56.54	2.18	20	
1,1-Dichloroethene	56.28	5.0	50	0	113	65.9-143	56.31	0.0533	20	
1,2-Dichloroethane	62.13	5.0	50	0	124	73-135	55.96	10.4	20	
1,3-Dichlorobenzene	51	5.0	50	0	102	61.2-125	50.4	1.18	21	
1,4-Dichlorobenzene	49.6	5.0	50	0	99.2	62.3-123	48.97	1.28	22.5	
Benzene	51.2	5.0	50	0	102	35.8-162	51.87	1.3	23.6	
Carbon tetrachloride	56.56	5.0	50	0	113	71.4-130	58.56	3.47	22.9	
Chlorobenzene	51.32	5.0	50	0	103	65.6-137	52.26	1.82	20	
Chloroform	51.48	5.0	50	0	103	69.6-128	50.82	1.29	23.1	
cis-1,2-Dichloroethene	55.21	5.0	50	0	110	68.8-130	53.45	3.24	23.7	
Ethylbenzene	52.61	5.0	50	0	105	68.6-124	54.22	3.01	24.9	
m,p-Xylene	105.7	5.0	100	0	106	64.5-125	108.3	2.44	25.1	
Styrene	51.85	5.0	50	0	104	65.9-125	51.97	0.231	22.8	
Tetrachloroethene	62.34	5.0	50	0	125	71.6-135	54.68	13.1	24.7	
Toluene	51.03	5.0	50	0	102	67.7-135	51.81	1.52	20	
Trichloroethene	55.35	5.0	50	0	111	70.9-139	56.11	1.36	20	
<i>Surr: 4-Bromofluorobenzene</i>	50.53	0	50	0	101	62.7-159	51.86	2.6		
<i>Surr: Dibromofluoromethane</i>	49.66	0	50	0	99.3	88.2-133	50.08	0.842		
<i>Surr: Toluene-d8</i>	50.04	0	50	0	100	81.5-110	50	0.08		

The following samples were analyzed in this batch:

1305593-25A	1305593-27A	1305593-28A
-------------	-------------	-------------

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 13-Jun-13

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305593

Analytical Comments

Method	Type:	SampID	SeqNo	Analysis	Comments
Batch	<u>R99763g</u>				
	Analysis	1305593-11B	626259	Herbicides	Surrogate recovery out of range

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
WorkOrder: 1305593

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
% of sample	
µg/Kg	
µg/Kg-dry	
µg/L	
mg/Kg	
mg/Kg-dry	

Sample Receipt Checklist

Client Name: AECOM-CINCINNATI

Date/Time Received: 25-May-13 09:13

Work Order: 1305593

Received by: JAQ

Checklist completed by: Jan Wilcox 28-May-13
eSignature Date

Reviewed by: Chris Gibson 10-Jun-13
eSignature Date

Matrices:

Carrier name: Client

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 3.7

Cooler(s)/Kit(s):

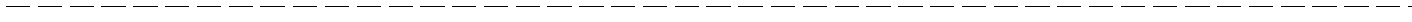
Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:



Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

[Empty text box for comments]

CorrectiveAction:

[Empty text box for corrective action]



EG
ALC

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Chain of Custody Form

Page 1 of 4

1305593

ALS Project Manager: _____ ALS Work Order #: _____

Customer Information		Project Information		Parameter/Method Request for Analysis			
Purchase Order	46496 ACM	Project Name	Whirlpool-Green Springs, OH-SWP	A	PCB 8082		
Work Order		Project Number	60299534	B	Metals 6010		
Company Name	AECOM	Bill To Company	AECOM	C	Herbicides 8151		
Send Report To	Elaine Nomina	Invoice Attn.	Ron Roelker	D	Pesticides 8081		
Address	4219 Malsbary Road	Address	4219 Malsbary Road	E	VOC 5035		
				F	SVOC 8270		
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G	VOC 8260		
Phone	(513) 878-6853	Phone	(513) 878-6844	H			
Fax	(513) 878-6848	Fax	(513) 878-6848	I			
e-Mail Address	elaine.nomina@aecom.com		ron.roelker@aecom.com	J			

No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	TB-052313 01	5/23/2013	-	water	1	2							X				
2	IA#1S33-0002 02	5/24/2013	0833	soil	7	1	x										
3	IA#1S33-0204 03	5/24/2013	0835	soil	7	1	x										
4	IA#1S33-0406 04	5/24/2013	0837	soil	7	1	x										
5	IA#1S33-0608 05	5/24/2013	0850	soil	6, 7	7	x	x	x	x	x	x					
6	IA#1S33-0810 06	5/24/2013	0858	soil	7	1	x										
7	IA#1S34-0002 07	5/23/2013	1826	soil	7	1	x										
8	IA#1S34-0204 08	5/23/2013	1835	soil	7	1	x										
9	IA#1S34-0406 09	5/23/2013	1855	soil	7	1	x										
10	IA#1S34-0608 10	5/23/2013	1858	soil	7	1	x										

Sampler(s): Please Print & Sign *Michelle Rapp* Shipment Method: **ALS Receiving** Required Turnaround Time: (Check Box) Other 10 Wk Days 5 Wk Days 3 Wk Days 2 Wk Days 24 Hour Results Due Date: _____

Relinquished by: *Michelle Rapp* Date: *5/23/13* Time: *0913* Received by: *[Signature]* Date: *5/23/13* Time: *0958* Notes: _____

Relinquished by: _____ Date: _____ Time: _____ Received by (Laboratory): _____ Date: _____ Time: _____

VAP Cooler Temp: _____ QC Package: (Check Box Below)

Yes No Level II: Standard QC Level III: Raw Data TRRP LRC TRRP Level IV Level IV: SW846 Methods/CLP like Other: _____

Failure to complete all portions of this form may delay analysis. Please fill in this form **LEGIBLY**

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.



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Chain of Custody Form

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1305593

ALS Project Manager:				ALS Work Order #:							
Customer Information		Project Information				Parameter/Method Request for Analysis					
Purchase Order	46496 ACM	Project Name	Whirlpool-Green Springs, OH-SWP		A	PCB 8082					
Work Order		Project Number	60299534		B	Metals 6010					
Company Name	AECOM	Bill To Company	AECOM		C	Herbicides 8151					
Send Report To	Elaine Nomina	Invoice Attn.	Ron Roelker		D	Pesticides 8081					
Address	4219 Malsbary Road	Address	4219 Malsbary Road		E	VOC 5035					
					F	SVOC 8270					
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242		G	VOC 8260					
Phone	(513) 878-6853	Phone	(513) 878-6844		H						
Fax	(513) 878-6848	Fax	(513) 878-6848		I						
e-Mail Address	elaine.nomina@aecom.com		ron.roelker@aecom.com		J						

No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	IA#1S34-0810 11	5/23/2013	1910	soil	6, 7	7	x	x	x	x	x	x					
2	IA#1S37-0002 12	5/23/2013	1719	soil	7	1	x										
3	IA#1S37-0204 13	5/23/2013	1723	soil	7	1	x										
4	IA#1S37-0406 14	5/23/2013	1747	soil	7	1	x										
5	IA#1S37-0608 15	5/23/2013	1751	soil	7	1	x										
6	IA#1S37-0810 16	5/23/2013	1802	soil	7	1	x										
7	IA#1S44-0002 17	5/24/2013	1021	soil	7	1	x										
8	IA#1S44-0204 18	5/24/2013	1023	soil	7	1	x										
9	IA#1S44-0204-MS 18MS	5/24/2013	1023	soil	7	1	x										
10	IA#1S44-0204-MSD 18MSD	5/24/2013	1023	soil	7	1	x										

Delivery Method:
 Std US Mail Client
 UPS ALS Courier
 City Dash FedEx
 US Mail Drop Box
 Other: _____

Cooling Method: Ice Pack Ice Cooler
 Method: None Cooler Package
 Custody Seals On: Cooler Samples None
 Temp in Celcius: 37

Sampler(s): Please Print & Sign *Michael Kapp / M. Roelker* Shipment Method: **ALS Receiving** Required Turnaround Time: (Check Box) Other 10 Wk Days 5 Wk Days 3 Wk Days 2 Wk Days 24 Hour Results Due Date: _____

Relinquished by: *M. Kapp* Date: 5/25/13 Time: 09:13 Received by: *M. Roelker* Date: 5/25/13 Time: 09:13 Notes: _____

Relinquished by: _____ Date: _____ Time: _____ Received by (Laboratory): _____ Date: _____ Time: _____

VAP Yes No **Cooler Temp** _____ **QC Package: (Check Box Below)**
 Level II: Standard QC Level III: Raw Data
 TRRP LRC TRRP Level IV
 Level IV: SW846 Methods/CLP like
 Other: _____

Failure to complete all portions of this form may delay analysis. Please fill in this form **LEGIBLY**



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Chain of Custody Form

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1305593

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	46496 ACM	Project Name	Whirlpool-Green Springs, OH-SWP	A	PCB 8082
Work Order		Project Number	60299534	B	Metals 6010
Company Name	AECOM	Bill To Company	AECOM	C	Herbicides 8151
Send Report To	Elaine Nomina	Invoice Attn.	Ron Roelker	D	Pesticides 8081
Address	4219 Malsbary Road	Address	4219 Malsbary Road	E	VOC 5035
				F	SVOC 8270
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G	VOC 8260
Phone	(513) 878-6853	Phone	(513) 878-6844	H	
Fax	(513) 878-6848	Fax	(513) 878-6848	I	
e-Mail Address	elaine.nomina@aecom.com		ron.roelker@aecom.com	J	

No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	IA#1S44-0406 19	5/24/2013	1029	soil	7	1	x										
2	IA#1S44-0608 20	5/24/2013	1035	soil	7	1	x										
3	IA#1S44-0810 21	5/24/2013	1043	soil	7	1	x										
4	IA#1S48-0002 22	5/24/2013	1052	soil	7	1	x										
5	IA#1S48-0204 23	5/24/2013	1054	soil	7	1	x										
6	IA#1S48-0406 24	5/24/2013	1056	soil	7	1	x										
7	IA#1S48-0608 25	5/24/2013	1103	soil	6, 7	7	x	x	x	x	x	x					
8	IA#1S48-0810 26	5/24/2013	1107	soil	7	1	x										
9	IA#1S50-0002 27	5/24/2013	0937	soil	6, 7	7	x	x	x	x	x	x					
10	IA#1S50-0002-B 28	5/24/2013	0944	soil	6, 7	7	x	x	x	x	x	x					

Sampler(s): Please Print & Sign *Michael Rapp* Shipment Method: **ALS Receiving** Required Turnaround Time: (Check Box) 10 Wk Days 5 Wk Days 3 Wk Days 2 Wk Days 24 Hour Results Due Date:

Relinquished by: *Michael Rapp* Date: 5/25/13 Time: 0913 Received by: *[Signature]* Date: 5/25/13 Time: 0913 Notes:

Relinquished by: *[Signature]* Date: Time: Received by (Laboratory): Date: Time: **VAP** Cooler Temp: **QC Package: (Check Box Below)**
 Level II: Standard QC Level III: Raw Data
 Yes TRRP LRC TRRP Level IV
 No Level IV: SW846 Methods/CLP like
 Other: _____

Failure to complete all portions of this form may delay analysis. Please fill in this form **LEGIBLY**

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.



ALS Environmental
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 (Fax) 513.733.5347
 Jim.Baxter@ALSglobal.com

Chain of Custody Form

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1305593

ALS Project Manager:		ALS Work Order #:						
Customer Information		Project Information		Parameter/Method Request for Analysis				
Purchase Order	46496 ACM	Project Name	Whirlpool-Green Springs, OH-SWP	A	PCB 8082			
Work Order		Project Number	60299534	B	Metals 6010			
Company Name	AECOM	Bill To Company	AECOM	C	Herbicides 8151			
Send Report To	Elaine Nomina	Invoice Attn.	Ron Roelker	D	Pesticides 8081			
Address	4219 Malsbary Road	Address	4219 Malsbary Road	E	VOC 5035			
				F	SVOC 8270			
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G	VOC 8260			
Phone	(513) 878-6853	Phone	(513) 878-6844	H				
Fax	(513) 878-6848	Fax	(513) 878-6848	I				
e-Mail Address	elaine.nomina@aecom.com		ron.roelker@aecom.com	J				

No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	IA#1S50-0204 29	5/24/2013	0944	soil	7	1	x										
2	IA#1S50-0406 30	5/24/2013	0946	soil	7	1	x										
3	IA#1S50-0608 31	5/24/2013	0954	soil	7	1	x										
4	IA#1S50-0810 32	5/24/2013	1006	soil	7	1	x										
5	IA#1S51-0002 33	5/24/2013	0753	soil	7	1	x										
6	IA#1S51-0204 34	5/24/2013	0755	soil	7	1	x										
7	IA#1S51-0406 35	5/24/2013	0756	soil	7	1	x										
8	IA#1S51-0608 36	5/24/2013	0809	soil	7	1	x										
9	IA#1S51-0810 37	5/24/2013	0816	soil	7	1	x										
10																	

Sampler(s): Please Print & Sign *M. Schuel* / *M. Kapp* Shipment Method: **ALS Receiving** Required Turnaround Time: (Check Box) 10 Wk Days 5 Wk Days 3 Wk Days 2 Wk Days 24 Hour Results Due Date:

Relinquished by: *M. Kapp* Date: *5/24/13* Time: *0913* Received by: *[Signature]* Date: *5/25/13* Time: *0913* Notes:

Relinquished by: Date: Time: Received by (Laboratory): Date: Time: VAP: Yes No Cooler Temp: QC Package: (Check Box Below) Level II: Standard QC Level III: Raw Data TRRP LRC TRRP Level IV Level IV: SW846 Methods/CLP like Other:

Failure to complete all portions of this form may delay analysis. Please fill in this form **LEGIBLY**

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.



20-Jun-2013

Elaine Nomina
AECOM
4219 Malsbury Road
Cincinnati, OH 45242

Tel: (513) 878-6853
Fax: (513) 878-6848

Re: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: **1305699**

Dear Elaine,

ALS Environmental received 17 samples on 31-May-2013 08:40 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 68.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

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Environmental 

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Client: AECOM
 Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
 Work Order: 1305699

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1305699-01	S11-0001	Soil		5/30/2013 11:40	5/31/2013 08:40	<input type="checkbox"/>
1305699-02	S11-0102	Soil		5/30/2013 11:44	5/31/2013 08:40	<input type="checkbox"/>
1305699-03	S12-0001	Soil		5/30/2013 12:40	5/31/2013 08:40	<input type="checkbox"/>
1305699-04	S12-0102	Soil		5/30/2013 12:49	5/31/2013 08:40	<input type="checkbox"/>
1305699-05	S14-0001	Soil		5/30/2013 13:15	5/31/2013 08:40	<input type="checkbox"/>
1305699-06	S14-0102	Soil		5/30/2013 13:18	5/31/2013 08:40	<input type="checkbox"/>
1305699-07	S15-0001	Soil		5/30/2013 13:45	5/31/2013 08:40	<input type="checkbox"/>
1305699-08	S15-0102	Soil		5/30/2013 13:45	5/31/2013 08:40	<input type="checkbox"/>
1305699-08	S15-0102	Soil		5/30/2013 13:45	5/31/2013 08:40	<input type="checkbox"/>
1305699-09	S16-0001	Soil		5/30/2013 14:10	5/31/2013 08:40	<input type="checkbox"/>
1305699-10	S16-0102	Soil		5/30/2013 14:15	5/31/2013 08:40	<input type="checkbox"/>
1305699-11	S18-0001	Soil		5/30/2013 16:50	5/31/2013 08:40	<input type="checkbox"/>
1305699-11	S18-0001	Soil		5/30/2013 16:50	5/31/2013 08:40	<input type="checkbox"/>
1305699-12	S18-0102	Soil		5/30/2013 16:55	5/31/2013 08:40	<input type="checkbox"/>
1305699-13	S19-0001	Soil		5/30/2013 17:50	5/31/2013 08:40	<input type="checkbox"/>
1305699-14	S19-0001-B	Soil		5/30/2013 17:50	5/31/2013 08:40	<input type="checkbox"/>
1305699-15	S19-0304	Soil		5/30/2013 18:00	5/31/2013 08:40	<input type="checkbox"/>
1305699-16	S27-0001	Soil		5/30/2013 18:03	5/31/2013 08:40	<input type="checkbox"/>
1305699-17	S27-0102	Soil		5/30/2013 18:05	5/31/2013 08:40	<input type="checkbox"/>
1305699-17	S27-0102	Soil		5/30/2013 18:05	5/31/2013 08:40	<input type="checkbox"/>

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305699

Case Narrative

The analyses requested were analyzed according to Ohio Voluntary Action Program requirements.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The pesticides and herbicides analysis was performed by Microbac Laboratories, Marietta, OH.

All soils are reported as dry weight corrected.

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S11-0001

Lab ID: 1305699-01

Collection Date: 5/30/2013 11:40 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/7/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/11/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/11/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/11/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/11/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/11/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	6/11/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/11/2013
Surr: Decachlorobiphenyl	86.0		22-156	%REC	1	6/11/2013
Surr: Tetrachloro-m-xylene	96.6		34-145	%REC	1	6/11/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	21		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S11-0102

Lab ID: 1305699-02

Collection Date: 5/30/2013 11:44 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/7/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/11/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/11/2013
Surr: Decachlorobiphenyl	85.4		22-156	%REC	1	6/11/2013
Surr: Tetrachloro-m-xylene	91.0		34-145	%REC	1	6/11/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	14		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S12-0001

Lab ID: 1305699-03

Collection Date: 5/30/2013 12:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/7/2013	Analyst: SAD
Aroclor 1016	ND		0.17	mg/Kg-dry	1	6/11/2013
Aroclor 1221	ND		0.34	mg/Kg-dry	1	6/11/2013
Aroclor 1232	ND		0.17	mg/Kg-dry	1	6/11/2013
Aroclor 1242	ND		0.17	mg/Kg-dry	1	6/11/2013
Aroclor 1248	ND		0.17	mg/Kg-dry	1	6/11/2013
Aroclor 1254	ND		0.17	mg/Kg-dry	1	6/11/2013
Aroclor 1260	ND		0.17	mg/Kg-dry	1	6/11/2013
Surr: Decachlorobiphenyl	83.4		22-156	%REC	1	6/11/2013
Surr: Tetrachloro-m-xylene	95.0		34-145	%REC	1	6/11/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	40		0.010	% of sample	1	6/3/2013
MERCURY BY CVAA			SW7471A		Prep Date: 6/6/2013	Analyst: SLW
Mercury	ND		0.47	mg/Kg-dry	1	6/7/2013 05:30 PM
METALS BY ICP			SW6010B		Prep Date: 6/3/2013	Analyst: VAW
Aluminum	10,000		830	mg/Kg-dry	1	6/3/2013 11:04 AM
Antimony	ND		5.0	mg/Kg-dry	1	6/3/2013 11:04 AM
Arsenic	ND		8.3	mg/Kg-dry	1	6/3/2013 11:04 AM
Barium	52		17	mg/Kg-dry	1	6/3/2013 11:04 AM
Beryllium	0.61		0.033	mg/Kg-dry	1	6/3/2013 11:04 AM
Cadmium	ND		1.7	mg/Kg-dry	1	6/3/2013 11:04 AM
Calcium	29,000		830	mg/Kg-dry	1	6/3/2013 11:04 AM
Chromium	16		3.3	mg/Kg-dry	1	6/3/2013 11:04 AM
Cobalt	ND		8.3	mg/Kg-dry	1	6/3/2013 11:04 AM
Copper	27		8.3	mg/Kg-dry	1	6/3/2013 11:04 AM
Iron	22,000		170	mg/Kg-dry	1	6/3/2013 11:04 AM
Lead	20		8.3	mg/Kg-dry	1	6/3/2013 11:04 AM
Magnesium	6,100		170	mg/Kg-dry	1	6/3/2013 11:04 AM
Manganese	190		8.3	mg/Kg-dry	1	6/3/2013 11:04 AM
Nickel	22		8.3	mg/Kg-dry	1	6/3/2013 11:04 AM
Potassium	1,100		830	mg/Kg-dry	1	6/3/2013 11:04 AM
Selenium	ND		5.0	mg/Kg-dry	1	6/3/2013 11:04 AM
Silver	ND		1.7	mg/Kg-dry	1	6/3/2013 11:04 AM
Sodium	ND		830	mg/Kg-dry	1	6/3/2013 11:04 AM
Thallium	ND		5.0	mg/Kg-dry	1	6/3/2013 11:04 AM
Vanadium	19		8.3	mg/Kg-dry	1	6/3/2013 11:04 AM
Zinc	83		8.3	mg/Kg-dry	1	6/3/2013 11:04 AM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/5/2013	Analyst: Microb

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S12-0001

Lab ID: 1305699-03

Collection Date: 5/30/2013 12:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		3.2	µg/Kg	1	6/12/2013 09:44 AM
4,4'-DDE	ND		3.2	µg/Kg	1	6/12/2013 09:44 AM
4,4'-DDT	ND		3.2	µg/Kg	1	6/12/2013 09:44 AM
Aldrin	ND		3.2	µg/Kg	1	6/12/2013 09:44 AM
alpha-BHC	ND		3.2	µg/Kg	1	6/12/2013 09:44 AM
alpha-Chlordane	ND		3.2	µg/Kg	1	6/12/2013 09:44 AM
beta-BHC	ND		3.2	µg/Kg	1	6/12/2013 09:44 AM
delta-BHC	ND		3.2	µg/Kg	1	6/12/2013 09:44 AM
Dieldrin	ND		3.2	µg/Kg	1	6/12/2013 09:44 AM
Endosulfan I	ND		3.2	µg/Kg	1	6/12/2013 09:44 AM
Endosulfan II	ND		3.2	µg/Kg	1	6/12/2013 09:44 AM
Endosulfan sulfate	ND		3.2	µg/Kg	1	6/12/2013 09:44 AM
Endrin	ND		3.2	µg/Kg	1	6/12/2013 09:44 AM
Endrin aldehyde	ND		3.2	µg/Kg	1	6/12/2013 09:44 AM
Endrin ketone	ND		3.2	µg/Kg	1	6/12/2013 09:44 AM
gamma-BHC (Lindane)	ND		3.2	µg/Kg	1	6/12/2013 09:44 AM
gamma-Chlordane	ND		3.2	µg/Kg	1	6/12/2013 09:44 AM
Heptachlor	ND		3.2	µg/Kg	1	6/12/2013 09:44 AM
Heptachlor epoxide	ND		3.2	µg/Kg	1	6/12/2013 09:44 AM
Methoxychlor	ND		3.2	µg/Kg	1	6/12/2013 09:44 AM
Toxaphene	ND		65	µg/Kg	1	6/12/2013 09:44 AM
<i>Surr: Decachlorobiphenyl</i>	43.2		33-143	%REC	1	6/12/2013 09:44 AM
<i>Surr: Tetrachloro-m-xylene</i>	39.7		39-130	%REC	1	6/12/2013 09:44 AM

HERBICIDES

SW8151

Prep Date: 6/6/2013

Analyst: Microb

2,4,5-T	ND		0.084	mg/Kg	1	6/11/2013 08:12 AM
2,4,5-TP (Silvex)	ND		0.063	mg/Kg	1	6/11/2013 08:12 AM
2,4-D	ND		0.84	mg/Kg	1	6/11/2013 08:12 AM
2,4-DB	ND		0.84	mg/Kg	1	6/11/2013 08:12 AM
Dalapon	ND		2.1	mg/Kg	1	6/11/2013 08:12 AM
Dicamba	ND		0.084	mg/Kg	1	6/11/2013 08:12 AM
Dichlorprop	ND		0.84	mg/Kg	1	6/11/2013 08:12 AM
Dinoseb	ND		0.42	mg/Kg	1	6/11/2013 08:12 AM
MCPA	ND		84	mg/Kg	1	6/11/2013 08:12 AM
MCPP	ND		84	mg/Kg	1	6/11/2013 08:12 AM
Pentachlorophenol	ND		0.084	mg/Kg	1	6/11/2013 08:12 AM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	0	S	25-110	%REC	1	6/11/2013 08:12 AM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 6/5/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
1,2,4-Trichlorobenzene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S12-0001

Lab ID: 1305699-03

Collection Date: 5/30/2013 12:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
1,3-Dichlorobenzene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
1,3-Dinitrobenzene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
1,4-Dichlorobenzene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
1-Methylnaphthalene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
1-Naphthylamine	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
2,3,4,6-Tetrachlorophenol	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
2,4,5-Trichlorophenol	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
2,4,6-Trichlorophenol	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
2,4-Dichlorophenol	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
2,4-Dimethylphenol	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
2,4-Dinitrophenol	ND		2,800	µg/Kg-dry	1	6/10/2013 08:14 PM
2,4-Dinitrotoluene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
2,6-Dichlorophenol	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
2,6-Dinitrotoluene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
2-Acetylaminofluorene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
2-Chloronaphthalene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
2-Chlorophenol	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
2-Methylnaphthalene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
2-Methylphenol	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
2-Naphthylamine	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
2-Nitroaniline	ND		2,800	µg/Kg-dry	1	6/10/2013 08:14 PM
2-Nitrophenol	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
2-Picoline	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
3&4-Methylphenol	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
3,3'-Dichlorobenzidine	ND		1,100	µg/Kg-dry	1	6/10/2013 08:14 PM
3-Methylcholanthrene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
3-Nitroaniline	ND		2,800	µg/Kg-dry	1	6/10/2013 08:14 PM
4,6-Dinitro-2-methylphenol	ND		2,800	µg/Kg-dry	1	6/10/2013 08:14 PM
4-Aminobiphenyl	ND		1,100	µg/Kg-dry	1	6/10/2013 08:14 PM
4-Bromophenyl phenyl ether	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
4-Chloro-3-methylphenol	ND		1,100	µg/Kg-dry	1	6/10/2013 08:14 PM
4-Chloroaniline	ND		1,100	µg/Kg-dry	1	6/10/2013 08:14 PM
4-Chlorophenyl phenyl ether	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
4-Nitroaniline	ND		1,100	µg/Kg-dry	1	6/10/2013 08:14 PM
4-Nitrophenol	ND		2,800	µg/Kg-dry	1	6/10/2013 08:14 PM
4-Nitroquinoline 1-oxide	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
5-Nitro-o-toluidine	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
7,12-Dimethylbenz(a)anthracene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Acenaphthene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S12-0001

Lab ID: 1305699-03

Collection Date: 5/30/2013 12:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Acetophenone	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Aniline	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Anthracene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Azobenzene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Benzidine	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Benzo(a)anthracene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Benzo(a)pyrene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Benzo(b)fluoranthene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Benzo(g,h,i)perylene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Benzo(k)fluoranthene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Benzyl alcohol	ND		1,100	µg/Kg-dry	1	6/10/2013 08:14 PM
Bis(2-chloroethoxy)methane	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Bis(2-chloroethyl)ether	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Bis(2-chloroisopropyl)ether	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Bis(2-ethylhexyl)phthalate	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Butyl benzyl phthalate	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Carbazole	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Chrysene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Dibenzo(a,h)anthracene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Dibenzofuran	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Diethyl phthalate	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Dimethyl phthalate	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Di-n-butyl phthalate	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Di-n-octyl phthalate	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Dinoseb	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Diphenylamine	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Ethyl methanesulfonate	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Fluoranthene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Fluorene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Hexachlorobenzene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Hexachlorobutadiene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Hexachlorocyclopentadiene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Hexachloroethane	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Indeno(1,2,3-cd)pyrene	ND		250	µg/Kg-dry	1	6/10/2013 08:14 PM
Isophorone	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Isosafrole	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Methapyrilene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Methyl methanesulfonate	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Naphthalene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S12-0001

Lab ID: 1305699-03

Collection Date: 5/30/2013 12:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
N-Nitrosodiethylamine	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
N-Nitrosodimethylamine	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
N-Nitroso-di-n-butylamine	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
N-Nitrosodi-n-propylamine	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
N-Nitrosomethylethylamine	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
N-Nitrosomorpholine	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
N-Nitrosopiperidine	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
N-Nitrosopyrrolidine	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
o-Toluidine	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
p-Dimethylaminoazobenzene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Pentachlorobenzene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Pentachloroethane	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Pentachloronitrobenzene	ND		1,100	µg/Kg-dry	1	6/10/2013 08:14 PM
Pentachlorophenol	ND		2,800	µg/Kg-dry	1	6/10/2013 08:14 PM
Phenacetin	ND		1,100	µg/Kg-dry	1	6/10/2013 08:14 PM
Phenanthrene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Phenol	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Pyrene	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Pyridine	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
Safrole	ND		550	µg/Kg-dry	1	6/10/2013 08:14 PM
<i>Surr: 2,4,6-Tribromophenol</i>	84.3		18-115	%REC	1	6/10/2013 08:14 PM
<i>Surr: 2-Fluorobiphenyl</i>	61.3		30-116	%REC	1	6/10/2013 08:14 PM
<i>Surr: 2-Fluorophenol</i>	57.1		24-105	%REC	1	6/10/2013 08:14 PM
<i>Surr: 4-Terphenyl-d14</i>	60.6		40-127	%REC	1	6/10/2013 08:14 PM
<i>Surr: Nitrobenzene-d5</i>	63.2		32-106	%REC	1	6/10/2013 08:14 PM
<i>Surr: Phenol-d5</i>	68.1		39-123	%REC	1	6/10/2013 08:14 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 6/5/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
1,1,1-Trichloroethane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
1,1,2,2-Tetrachloroethane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
1,1,2-Trichloroethane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
1,1-Dichloroethane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
1,1-Dichloroethene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
1,1-Dichloropropene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
1,2,3-Trichlorobenzene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
1,2,3-Trichloropropane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
1,2,4-Trichlorobenzene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
1,2,4-Trimethylbenzene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
1,2-Dibromo-3-chloropropane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S12-0001

Lab ID: 1305699-03

Collection Date: 5/30/2013 12:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
1,2-Dichlorobenzene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
1,2-Dichloroethane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
1,2-Dichloropropane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
1,3,5-Trimethylbenzene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
1,3-Dichlorobenzene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
1,3-Dichloropropane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
1,4-Dichlorobenzene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
2,2-Dichloropropane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
2-Butanone	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
2-Chlorotoluene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
2-Hexanone	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
4-Chlorotoluene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
4-Methyl-2-pentanone	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Acetone	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Benzene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Bromobenzene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Bromochloromethane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Bromodichloromethane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Bromoform	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Bromomethane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Carbon disulfide	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Carbon tetrachloride	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Chlorobenzene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Chloroethane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Chloroform	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Chloromethane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
cis-1,2-Dichloroethene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
cis-1,3-Dichloropropene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Dibromochloromethane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Dibromomethane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Dichlorodifluoromethane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Ethylbenzene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Hexachlorobutadiene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Isopropylbenzene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
m,p-Xylene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Methyl tert-butyl ether	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Methylene chloride	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Naphthalene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
n-Butylbenzene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S12-0001

Lab ID: 1305699-03

Collection Date: 5/30/2013 12:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
o-Xylene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
p-Isopropyltoluene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
sec-Butylbenzene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Styrene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
tert-Butylbenzene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Tetrachloroethene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Toluene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
trans-1,2-Dichloroethene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
trans-1,3-Dichloropropene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Trichloroethene	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Trichlorofluoromethane	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Vinyl chloride	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Xylenes, Total	ND		7.6	µg/Kg-dry	1	6/5/2013 04:34 PM
Surr: 4-Bromofluorobenzene	101		62.7-159	%REC	1	6/5/2013 04:34 PM
Surr: Dibromofluoromethane	104		88.2-133	%REC	1	6/5/2013 04:34 PM
Surr: Toluene-d8	96.8		81.5-110	%REC	1	6/5/2013 04:34 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S12-0102

Lab ID: 1305699-04

Collection Date: 5/30/2013 12:49 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/7/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/11/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/11/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/11/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/11/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/11/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	6/11/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/11/2013
Surr: Decachlorobiphenyl	73.0		22-156	%REC	1	6/11/2013
Surr: Tetrachloro-m-xylene	78.2		34-145	%REC	1	6/11/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	20		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S14-0001

Lab ID: 1305699-05

Collection Date: 5/30/2013 01:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/7/2013	Analyst: SAD
Aroclor 1016	ND		0.17	mg/Kg-dry	1	6/11/2013
Aroclor 1221	ND		0.34	mg/Kg-dry	1	6/11/2013
Aroclor 1232	ND		0.17	mg/Kg-dry	1	6/11/2013
Aroclor 1242	ND		0.17	mg/Kg-dry	1	6/11/2013
Aroclor 1248	ND		0.17	mg/Kg-dry	1	6/11/2013
Aroclor 1254	ND		0.17	mg/Kg-dry	1	6/11/2013
Aroclor 1260	ND		0.17	mg/Kg-dry	1	6/11/2013
Surr: Decachlorobiphenyl	84.4		22-156	%REC	1	6/11/2013
Surr: Tetrachloro-m-xylene	97.0		34-145	%REC	1	6/11/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	42		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S14-0102

Lab ID: 1305699-06

Collection Date: 5/30/2013 01:18 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/7/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/11/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/11/2013
Surr: Decachlorobiphenyl	83.2		22-156	%REC	1	6/11/2013
Surr: Tetrachloro-m-xylene	88.0		34-145	%REC	1	6/11/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	17		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S15-0001

Lab ID: 1305699-07

Collection Date: 5/30/2013 01:45 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/7/2013	Analyst: SAD
Aroclor 1016	ND		0.14	mg/Kg-dry	1	6/11/2013
Aroclor 1221	ND		0.28	mg/Kg-dry	1	6/11/2013
Aroclor 1232	ND		0.14	mg/Kg-dry	1	6/11/2013
Aroclor 1242	ND		0.14	mg/Kg-dry	1	6/11/2013
Aroclor 1248	ND		0.14	mg/Kg-dry	1	6/11/2013
Aroclor 1254	ND		0.14	mg/Kg-dry	1	6/11/2013
Aroclor 1260	ND		0.14	mg/Kg-dry	1	6/11/2013
Surr: Decachlorobiphenyl	81.2		22-156	%REC	1	6/11/2013
Surr: Tetrachloro-m-xylene	87.8		34-145	%REC	1	6/11/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	29		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S15-0102

Lab ID: 1305699-08

Collection Date: 5/30/2013 01:45 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/7/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/11/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/11/2013
Surr: Decachlorobiphenyl	87.4		22-156	%REC	1	6/11/2013
Surr: Tetrachloro-m-xylene	93.8		34-145	%REC	1	6/11/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	19		0.010	% of sample	1	6/3/2013
MERCURY BY CVAA			SW7471A		Prep Date: 6/6/2013	Analyst: SLW
Mercury	ND		0.35	mg/Kg-dry	1	6/7/2013 05:32 PM
METALS BY ICP			SW6010B		Prep Date: 6/3/2013	Analyst: VAW
Aluminum	9,000		610	mg/Kg-dry	1	6/3/2013 11:10 AM
Antimony	ND		3.7	mg/Kg-dry	1	6/3/2013 11:10 AM
Arsenic	14		6.1	mg/Kg-dry	1	6/3/2013 11:10 AM
Barium	44		12	mg/Kg-dry	1	6/3/2013 11:10 AM
Beryllium	0.49		0.024	mg/Kg-dry	1	6/3/2013 11:10 AM
Cadmium	ND		1.2	mg/Kg-dry	1	6/3/2013 11:10 AM
Calcium	58,000		610	mg/Kg-dry	1	6/3/2013 11:10 AM
Chromium	16		2.4	mg/Kg-dry	1	6/3/2013 11:10 AM
Cobalt	11		6.1	mg/Kg-dry	1	6/3/2013 11:10 AM
Copper	52		6.1	mg/Kg-dry	1	6/3/2013 11:10 AM
Iron	23,000		120	mg/Kg-dry	1	6/3/2013 11:10 AM
Lead	11		6.1	mg/Kg-dry	1	6/3/2013 11:10 AM
Magnesium	13,000		120	mg/Kg-dry	1	6/3/2013 11:10 AM
Manganese	410		6.1	mg/Kg-dry	1	6/3/2013 11:10 AM
Nickel	28		6.1	mg/Kg-dry	1	6/3/2013 11:10 AM
Potassium	1,500		610	mg/Kg-dry	1	6/3/2013 11:10 AM
Selenium	ND		3.7	mg/Kg-dry	1	6/3/2013 11:10 AM
Silver	ND		1.2	mg/Kg-dry	1	6/3/2013 11:10 AM
Sodium	ND		610	mg/Kg-dry	1	6/3/2013 11:10 AM
Thallium	ND		3.7	mg/Kg-dry	1	6/3/2013 11:10 AM
Vanadium	18		6.1	mg/Kg-dry	1	6/3/2013 11:10 AM
Zinc	69		6.1	mg/Kg-dry	1	6/3/2013 11:10 AM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/5/2013	Analyst: Microb

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S15-0102

Lab ID: 1305699-08

Collection Date: 5/30/2013 01:45 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		2.0	µg/Kg	1	6/12/2013 10:12 AM
4,4'-DDE	ND		2.0	µg/Kg	1	6/12/2013 10:12 AM
4,4'-DDT	ND		2.0	µg/Kg	1	6/12/2013 10:12 AM
Aldrin	ND		2.0	µg/Kg	1	6/12/2013 10:12 AM
alpha-BHC	ND		2.0	µg/Kg	1	6/12/2013 10:12 AM
alpha-Chlordane	ND		2.0	µg/Kg	1	6/12/2013 10:12 AM
beta-BHC	ND		2.0	µg/Kg	1	6/12/2013 10:12 AM
delta-BHC	ND		2.0	µg/Kg	1	6/12/2013 10:12 AM
Dieldrin	ND		2.0	µg/Kg	1	6/12/2013 10:12 AM
Endosulfan I	ND		2.0	µg/Kg	1	6/12/2013 10:12 AM
Endosulfan II	ND		2.0	µg/Kg	1	6/12/2013 10:12 AM
Endosulfan sulfate	ND		2.0	µg/Kg	1	6/12/2013 10:12 AM
Endrin	ND		2.0	µg/Kg	1	6/12/2013 10:12 AM
Endrin aldehyde	ND		2.0	µg/Kg	1	6/12/2013 10:12 AM
Endrin ketone	ND		2.0	µg/Kg	1	6/12/2013 10:12 AM
gamma-BHC (Lindane)	ND		2.0	µg/Kg	1	6/12/2013 10:12 AM
gamma-Chlordane	ND		2.0	µg/Kg	1	6/12/2013 10:12 AM
Heptachlor	ND		2.0	µg/Kg	1	6/12/2013 10:12 AM
Heptachlor epoxide	ND		2.0	µg/Kg	1	6/12/2013 10:12 AM
Methoxychlor	ND		2.0	µg/Kg	1	6/12/2013 10:12 AM
Toxaphene	ND		41	µg/Kg	1	6/12/2013 10:12 AM
<i>Surr: Decachlorobiphenyl</i>	38.4		33-143	%REC	1	6/12/2013 10:12 AM
<i>Surr: Tetrachloro-m-xylene</i>	39.9		39-130	%REC	1	6/12/2013 10:12 AM

HERBICIDES

SW8151

Prep Date: 6/6/2013

Analyst: Microb

2,4,5-T	ND		0.026	mg/Kg	1	6/11/2013 06:02 AM
2,4,5-TP (Silvex)	ND		0.019	mg/Kg	1	6/11/2013 06:02 AM
2,4-D	ND		0.26	mg/Kg	1	6/11/2013 06:02 AM
2,4-DB	ND		0.26	mg/Kg	1	6/11/2013 06:02 AM
Dalapon	ND		0.65	mg/Kg	1	6/11/2013 06:02 AM
Dicamba	ND		0.026	mg/Kg	1	6/11/2013 06:02 AM
Dichlorprop	ND		0.26	mg/Kg	1	6/11/2013 06:02 AM
Dinoseb	ND		0.13	mg/Kg	1	6/11/2013 06:02 AM
MCPA	ND		26	mg/Kg	1	6/11/2013 06:02 AM
MCPP	ND		26	mg/Kg	1	6/11/2013 06:02 AM
Pentachlorophenol	ND		0.026	mg/Kg	1	6/11/2013 06:02 AM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	96.1		25-110	%REC	1	6/11/2013 06:02 AM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 6/5/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
1,2,4-Trichlorobenzene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S15-0102

Lab ID: 1305699-08

Collection Date: 5/30/2013 01:45 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
1,3-Dichlorobenzene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
1,3-Dinitrobenzene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
1,4-Dichlorobenzene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
1-Methylnaphthalene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
1-Naphthylamine	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
2,3,4,6-Tetrachlorophenol	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
2,4,5-Trichlorophenol	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
2,4,6-Trichlorophenol	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
2,4-Dichlorophenol	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
2,4-Dimethylphenol	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
2,4-Dinitrophenol	ND		2,000	µg/Kg-dry	1	6/10/2013 08:48 PM
2,4-Dinitrotoluene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
2,6-Dichlorophenol	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
2,6-Dinitrotoluene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
2-Acetylaminofluorene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
2-Chloronaphthalene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
2-Chlorophenol	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
2-Methylnaphthalene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
2-Methylphenol	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
2-Naphthylamine	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
2-Nitroaniline	ND		2,000	µg/Kg-dry	1	6/10/2013 08:48 PM
2-Nitrophenol	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
2-Picoline	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
3&4-Methylphenol	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
3,3'-Dichlorobenzidine	ND		810	µg/Kg-dry	1	6/10/2013 08:48 PM
3-Methylcholanthrene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
3-Nitroaniline	ND		2,000	µg/Kg-dry	1	6/10/2013 08:48 PM
4,6-Dinitro-2-methylphenol	ND		2,000	µg/Kg-dry	1	6/10/2013 08:48 PM
4-Aminobiphenyl	ND		810	µg/Kg-dry	1	6/10/2013 08:48 PM
4-Bromophenyl phenyl ether	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
4-Chloro-3-methylphenol	ND		810	µg/Kg-dry	1	6/10/2013 08:48 PM
4-Chloroaniline	ND		810	µg/Kg-dry	1	6/10/2013 08:48 PM
4-Chlorophenyl phenyl ether	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
4-Nitroaniline	ND		810	µg/Kg-dry	1	6/10/2013 08:48 PM
4-Nitrophenol	ND		2,000	µg/Kg-dry	1	6/10/2013 08:48 PM
4-Nitroquinoline 1-oxide	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
5-Nitro-o-toluidine	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
7,12-Dimethylbenz(a)anthracene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Acenaphthene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S15-0102

Lab ID: 1305699-08

Collection Date: 5/30/2013 01:45 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Acetophenone	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Aniline	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Anthracene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Azobenzene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Benzidine	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Benzo(a)anthracene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Benzo(a)pyrene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Benzo(b)fluoranthene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Benzo(g,h,i)perylene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Benzo(k)fluoranthene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Benzyl alcohol	ND		810	µg/Kg-dry	1	6/10/2013 08:48 PM
Bis(2-chloroethoxy)methane	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Bis(2-chloroethyl)ether	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Bis(2-chloroisopropyl)ether	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Bis(2-ethylhexyl)phthalate	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Butyl benzyl phthalate	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Carbazole	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Chrysene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Dibenzo(a,h)anthracene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Dibenzofuran	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Diethyl phthalate	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Dimethyl phthalate	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Di-n-butyl phthalate	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Di-n-octyl phthalate	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Dinoseb	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Diphenylamine	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Ethyl methanesulfonate	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Fluoranthene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Fluorene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Hexachlorobenzene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Hexachlorobutadiene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Hexachlorocyclopentadiene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Hexachloroethane	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Indeno(1,2,3-cd)pyrene	ND		190	µg/Kg-dry	1	6/10/2013 08:48 PM
Isophorone	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Isosafrole	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Methapyrilene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Methyl methanesulfonate	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Naphthalene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S15-0102

Lab ID: 1305699-08

Collection Date: 5/30/2013 01:45 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
N-Nitrosodiethylamine	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
N-Nitrosodimethylamine	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
N-Nitroso-di-n-butylamine	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
N-Nitrosodi-n-propylamine	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
N-Nitrosomethylethylamine	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
N-Nitrosomorpholine	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
N-Nitrosopiperidine	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
N-Nitrosopyrrolidine	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
o-Toluidine	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
p-Dimethylaminoazobenzene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Pentachlorobenzene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Pentachloroethane	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Pentachloronitrobenzene	ND		810	µg/Kg-dry	1	6/10/2013 08:48 PM
Pentachlorophenol	ND		2,000	µg/Kg-dry	1	6/10/2013 08:48 PM
Phenacetin	ND		810	µg/Kg-dry	1	6/10/2013 08:48 PM
Phenanthrene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Phenol	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Pyrene	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Pyridine	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
Safrole	ND		410	µg/Kg-dry	1	6/10/2013 08:48 PM
<i>Surr: 2,4,6-Tribromophenol</i>	<i>78.4</i>		<i>18-115</i>	<i>%REC</i>	<i>1</i>	<i>6/10/2013 08:48 PM</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>45.1</i>		<i>30-116</i>	<i>%REC</i>	<i>1</i>	<i>6/10/2013 08:48 PM</i>
<i>Surr: 2-Fluorophenol</i>	<i>42.6</i>		<i>24-105</i>	<i>%REC</i>	<i>1</i>	<i>6/10/2013 08:48 PM</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>65.1</i>		<i>40-127</i>	<i>%REC</i>	<i>1</i>	<i>6/10/2013 08:48 PM</i>
<i>Surr: Nitrobenzene-d5</i>	<i>50.0</i>		<i>32-106</i>	<i>%REC</i>	<i>1</i>	<i>6/10/2013 08:48 PM</i>
<i>Surr: Phenol-d5</i>	<i>55.9</i>		<i>39-123</i>	<i>%REC</i>	<i>1</i>	<i>6/10/2013 08:48 PM</i>

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 6/5/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
1,1,1-Trichloroethane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
1,1,2-Trichloroethane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
1,1-Dichloroethane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
1,1-Dichloroethene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
1,1-Dichloropropene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
1,2,3-Trichloropropane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S15-0102

Lab ID: 1305699-08

Collection Date: 5/30/2013 01:45 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
1,2-Dichlorobenzene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
1,2-Dichloroethane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
1,2-Dichloropropane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
1,3-Dichlorobenzene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
1,3-Dichloropropane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
1,4-Dichlorobenzene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
2,2-Dichloropropane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
2-Butanone	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
2-Chlorotoluene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
2-Hexanone	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
4-Chlorotoluene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
4-Methyl-2-pentanone	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Acetone	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Benzene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Bromobenzene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Bromochloromethane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Bromodichloromethane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Bromoform	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Bromomethane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Carbon disulfide	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Carbon tetrachloride	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Chlorobenzene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Chloroethane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Chloroform	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Chloromethane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
cis-1,2-Dichloroethene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
cis-1,3-Dichloropropene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Dibromochloromethane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Dibromomethane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Dichlorodifluoromethane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Ethylbenzene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Hexachlorobutadiene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Isopropylbenzene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
m,p-Xylene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Methyl tert-butyl ether	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Methylene chloride	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Naphthalene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
n-Butylbenzene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S15-0102

Lab ID: 1305699-08

Collection Date: 5/30/2013 01:45 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
o-Xylene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
p-Isopropyltoluene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
sec-Butylbenzene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Styrene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
tert-Butylbenzene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Tetrachloroethene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Toluene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
trans-1,2-Dichloroethene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
trans-1,3-Dichloropropene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Trichloroethene	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Trichlorofluoromethane	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Vinyl chloride	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Xylenes, Total	ND		5.0	µg/Kg-dry	1	6/5/2013 05:06 PM
Surr: 4-Bromofluorobenzene	107		62.7-159	%REC	1	6/5/2013 05:06 PM
Surr: Dibromofluoromethane	107		88.2-133	%REC	1	6/5/2013 05:06 PM
Surr: Toluene-d8	96.9		81.5-110	%REC	1	6/5/2013 05:06 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S16-0001

Lab ID: 1305699-09

Collection Date: 5/30/2013 02:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/7/2013	Analyst: SAD
Aroclor 1016	ND		0.18	mg/Kg-dry	1	6/11/2013
Aroclor 1221	ND		0.36	mg/Kg-dry	1	6/11/2013
Aroclor 1232	ND		0.18	mg/Kg-dry	1	6/11/2013
Aroclor 1242	ND		0.18	mg/Kg-dry	1	6/11/2013
Aroclor 1248	ND		0.18	mg/Kg-dry	1	6/11/2013
Aroclor 1254	ND		0.18	mg/Kg-dry	1	6/11/2013
Aroclor 1260	ND		0.18	mg/Kg-dry	1	6/11/2013
Surr: Decachlorobiphenyl	77.6		22-156	%REC	1	6/11/2013
Surr: Tetrachloro-m-xylene	79.2		34-145	%REC	1	6/11/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	44		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S16-0102

Lab ID: 1305699-10

Collection Date: 5/30/2013 02:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/7/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/11/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/11/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/11/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/11/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/11/2013
Aroclor 1254	0.15		0.13	mg/Kg-dry	1	6/11/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/11/2013
<i>Surr: Decachlorobiphenyl</i>	78.4		22-156	%REC	1	6/11/2013
<i>Surr: Tetrachloro-m-xylene</i>	80.8		34-145	%REC	1	6/11/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	22		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S18-0001

Lab ID: 1305699-11

Collection Date: 5/30/2013 04:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/7/2013	Analyst: SAD
Aroclor 1016	ND		0.16	mg/Kg-dry	1	6/11/2013
Aroclor 1221	ND		0.32	mg/Kg-dry	1	6/11/2013
Aroclor 1232	ND		0.16	mg/Kg-dry	1	6/11/2013
Aroclor 1242	ND		0.16	mg/Kg-dry	1	6/11/2013
Aroclor 1248	ND		0.16	mg/Kg-dry	1	6/11/2013
Aroclor 1254	ND		0.16	mg/Kg-dry	1	6/11/2013
Aroclor 1260	ND		0.16	mg/Kg-dry	1	6/11/2013
Surr: Decachlorobiphenyl	82.6		22-156	%REC	1	6/11/2013
Surr: Tetrachloro-m-xylene	93.0		34-145	%REC	1	6/11/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	38		0.010	% of sample	1	6/3/2013
MERCURY BY CVAA			SW7471A		Prep Date: 6/6/2013	Analyst: SLW
Mercury	ND		0.45	mg/Kg-dry	1	6/7/2013 05:34 PM
METALS BY ICP			SW6010B		Prep Date: 6/3/2013	Analyst: VAW
Aluminum	16,000		790	mg/Kg-dry	1	6/3/2013 11:17 AM
Antimony	ND		4.7	mg/Kg-dry	1	6/3/2013 11:17 AM
Arsenic	ND		7.9	mg/Kg-dry	1	6/3/2013 11:17 AM
Barium	87		16	mg/Kg-dry	1	6/3/2013 11:17 AM
Beryllium	0.87		0.032	mg/Kg-dry	1	6/3/2013 11:17 AM
Cadmium	ND		1.6	mg/Kg-dry	1	6/3/2013 11:17 AM
Calcium	66,000		790	mg/Kg-dry	1	6/3/2013 11:17 AM
Chromium	22		3.2	mg/Kg-dry	1	6/3/2013 11:17 AM
Cobalt	9.0		7.9	mg/Kg-dry	1	6/3/2013 11:17 AM
Copper	30		7.9	mg/Kg-dry	1	6/3/2013 11:17 AM
Iron	29,000		160	mg/Kg-dry	1	6/3/2013 11:17 AM
Lead	25		7.9	mg/Kg-dry	1	6/3/2013 11:17 AM
Magnesium	6,200		160	mg/Kg-dry	1	6/3/2013 11:17 AM
Manganese	220		7.9	mg/Kg-dry	1	6/3/2013 11:17 AM
Nickel	28		7.9	mg/Kg-dry	1	6/3/2013 11:17 AM
Potassium	1,600		790	mg/Kg-dry	1	6/3/2013 11:17 AM
Selenium	ND		4.7	mg/Kg-dry	1	6/3/2013 11:17 AM
Silver	ND		1.6	mg/Kg-dry	1	6/3/2013 11:17 AM
Sodium	ND		790	mg/Kg-dry	1	6/3/2013 11:17 AM
Thallium	ND		4.7	mg/Kg-dry	1	6/3/2013 11:17 AM
Vanadium	28		7.9	mg/Kg-dry	1	6/3/2013 11:17 AM
Zinc	99		7.9	mg/Kg-dry	1	6/3/2013 11:17 AM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/5/2013	Analyst: Microb

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S18-0001

Lab ID: 1305699-11

Collection Date: 5/30/2013 04:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		2.6	µg/Kg	1	6/12/2013 10:40 AM
4,4'-DDE	ND		2.6	µg/Kg	1	6/12/2013 10:40 AM
4,4'-DDT	ND		2.6	µg/Kg	1	6/12/2013 10:40 AM
Aldrin	ND		2.6	µg/Kg	1	6/12/2013 10:40 AM
alpha-BHC	ND		2.6	µg/Kg	1	6/12/2013 10:40 AM
alpha-Chlordane	ND		2.6	µg/Kg	1	6/12/2013 10:40 AM
beta-BHC	ND		2.6	µg/Kg	1	6/12/2013 10:40 AM
delta-BHC	ND		2.6	µg/Kg	1	6/12/2013 10:40 AM
Dieldrin	ND		2.6	µg/Kg	1	6/12/2013 10:40 AM
Endosulfan I	ND		2.6	µg/Kg	1	6/12/2013 10:40 AM
Endosulfan II	ND		2.6	µg/Kg	1	6/12/2013 10:40 AM
Endosulfan sulfate	ND		2.6	µg/Kg	1	6/12/2013 10:40 AM
Endrin	ND		2.6	µg/Kg	1	6/12/2013 10:40 AM
Endrin aldehyde	ND		2.6	µg/Kg	1	6/12/2013 10:40 AM
Endrin ketone	ND		2.6	µg/Kg	1	6/12/2013 10:40 AM
gamma-BHC (Lindane)	ND		2.6	µg/Kg	1	6/12/2013 10:40 AM
gamma-Chlordane	ND		2.6	µg/Kg	1	6/12/2013 10:40 AM
Heptachlor	ND		2.6	µg/Kg	1	6/12/2013 10:40 AM
Heptachlor epoxide	ND		2.6	µg/Kg	1	6/12/2013 10:40 AM
Methoxychlor	ND		2.6	µg/Kg	1	6/12/2013 10:40 AM
Toxaphene	ND		52	µg/Kg	1	6/12/2013 10:40 AM
<i>Surr: Decachlorobiphenyl</i>	32.9	S	33-143	%REC	1	6/12/2013 10:40 AM
<i>Surr: Tetrachloro-m-xylene</i>	44.5		39-130	%REC	1	6/12/2013 10:40 AM

HERBICIDES

SW8151

Prep Date: 6/6/2013

Analyst: Microb

2,4,5-T	ND		0.0074	mg/Kg	1	6/11/2013 03:26 AM
2,4,5-TP (Silvex)	ND		0.0056	mg/Kg	1	6/11/2013 03:26 AM
2,4-D	ND		0.074	mg/Kg	1	6/11/2013 03:26 AM
2,4-DB	ND		0.074	mg/Kg	1	6/11/2013 03:26 AM
Dalapon	ND		0.18	mg/Kg	1	6/11/2013 03:26 AM
Dicamba	ND		0.0074	mg/Kg	1	6/11/2013 03:26 AM
Dichlorprop	ND		0.074	mg/Kg	1	6/11/2013 03:26 AM
Dinoseb	ND		0.037	mg/Kg	1	6/11/2013 03:26 AM
MCPA	ND		7.4	mg/Kg	1	6/11/2013 03:26 AM
MCPP	ND		7.4	mg/Kg	1	6/11/2013 03:26 AM
Pentachlorophenol	ND		0.0074	mg/Kg	1	6/11/2013 03:26 AM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	86.7		25-110	%REC	1	6/11/2013 03:26 AM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 6/5/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
1,2,4-Trichlorobenzene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S18-0001

Lab ID: 1305699-11

Collection Date: 5/30/2013 04:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
1,3-Dichlorobenzene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
1,3-Dinitrobenzene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
1,4-Dichlorobenzene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
1-Methylnaphthalene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
1-Naphthylamine	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
2,3,4,6-Tetrachlorophenol	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
2,4,5-Trichlorophenol	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
2,4,6-Trichlorophenol	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
2,4-Dichlorophenol	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
2,4-Dimethylphenol	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
2,4-Dinitrophenol	ND		2,600	µg/Kg-dry	1	6/10/2013 09:21 PM
2,4-Dinitrotoluene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
2,6-Dichlorophenol	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
2,6-Dinitrotoluene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
2-Acetylaminofluorene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
2-Chloronaphthalene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
2-Chlorophenol	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
2-Methylnaphthalene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
2-Methylphenol	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
2-Naphthylamine	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
2-Nitroaniline	ND		2,600	µg/Kg-dry	1	6/10/2013 09:21 PM
2-Nitrophenol	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
2-Picoline	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
3&4-Methylphenol	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
3,3'-Dichlorobenzidine	ND		1,100	µg/Kg-dry	1	6/10/2013 09:21 PM
3-Methylcholanthrene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
3-Nitroaniline	ND		2,600	µg/Kg-dry	1	6/10/2013 09:21 PM
4,6-Dinitro-2-methylphenol	ND		2,600	µg/Kg-dry	1	6/10/2013 09:21 PM
4-Aminobiphenyl	ND		1,100	µg/Kg-dry	1	6/10/2013 09:21 PM
4-Bromophenyl phenyl ether	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
4-Chloro-3-methylphenol	ND		1,100	µg/Kg-dry	1	6/10/2013 09:21 PM
4-Chloroaniline	ND		1,100	µg/Kg-dry	1	6/10/2013 09:21 PM
4-Chlorophenyl phenyl ether	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
4-Nitroaniline	ND		1,100	µg/Kg-dry	1	6/10/2013 09:21 PM
4-Nitrophenol	ND		2,600	µg/Kg-dry	1	6/10/2013 09:21 PM
4-Nitroquinoline 1-oxide	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
5-Nitro-o-toluidine	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
7,12-Dimethylbenz(a)anthracene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Acenaphthene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S18-0001

Lab ID: 1305699-11

Collection Date: 5/30/2013 04:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Acetophenone	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Aniline	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Anthracene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Azobenzene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Benzidine	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Benzo(a)anthracene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Benzo(a)pyrene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Benzo(b)fluoranthene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Benzo(g,h,i)perylene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Benzo(k)fluoranthene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Benzyl alcohol	ND		1,100	µg/Kg-dry	1	6/10/2013 09:21 PM
Bis(2-chloroethoxy)methane	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Bis(2-chloroethyl)ether	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Bis(2-chloroisopropyl)ether	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Bis(2-ethylhexyl)phthalate	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Butyl benzyl phthalate	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Carbazole	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Chrysene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Dibenzo(a,h)anthracene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Dibenzofuran	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Diethyl phthalate	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Dimethyl phthalate	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Di-n-butyl phthalate	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Di-n-octyl phthalate	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Dinoseb	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Diphenylamine	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Ethyl methanesulfonate	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Fluoranthene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Fluorene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Hexachlorobenzene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Hexachlorobutadiene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Hexachlorocyclopentadiene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Hexachloroethane	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Indeno(1,2,3-cd)pyrene	ND		240	µg/Kg-dry	1	6/10/2013 09:21 PM
Isophorone	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Isosafrole	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Methapyrilene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Methyl methanesulfonate	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Naphthalene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S18-0001

Lab ID: 1305699-11

Collection Date: 5/30/2013 04:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
N-Nitrosodiethylamine	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
N-Nitrosodimethylamine	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
N-Nitroso-di-n-butylamine	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
N-Nitrosodi-n-propylamine	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
N-Nitrosomethylethylamine	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
N-Nitrosomorpholine	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
N-Nitrosopiperidine	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
N-Nitrosopyrrolidine	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
o-Toluidine	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
p-Dimethylaminoazobenzene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Pentachlorobenzene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Pentachloroethane	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Pentachloronitrobenzene	ND		1,100	µg/Kg-dry	1	6/10/2013 09:21 PM
Pentachlorophenol	ND		2,600	µg/Kg-dry	1	6/10/2013 09:21 PM
Phenacetin	ND		1,100	µg/Kg-dry	1	6/10/2013 09:21 PM
Phenanthrene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Phenol	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Pyrene	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Pyridine	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
Safrole	ND		530	µg/Kg-dry	1	6/10/2013 09:21 PM
<i>Surr: 2,4,6-Tribromophenol</i>	<i>84.3</i>		<i>18-115</i>	<i>%REC</i>	1	6/10/2013 09:21 PM
<i>Surr: 2-Fluorobiphenyl</i>	<i>55.0</i>		<i>30-116</i>	<i>%REC</i>	1	6/10/2013 09:21 PM
<i>Surr: 2-Fluorophenol</i>	<i>47.8</i>		<i>24-105</i>	<i>%REC</i>	1	6/10/2013 09:21 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>65.7</i>		<i>40-127</i>	<i>%REC</i>	1	6/10/2013 09:21 PM
<i>Surr: Nitrobenzene-d5</i>	<i>58.8</i>		<i>32-106</i>	<i>%REC</i>	1	6/10/2013 09:21 PM
<i>Surr: Phenol-d5</i>	<i>57.3</i>		<i>39-123</i>	<i>%REC</i>	1	6/10/2013 09:21 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 6/5/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
1,1,1-Trichloroethane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
1,1,2,2-Tetrachloroethane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
1,1,2-Trichloroethane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
1,1-Dichloroethane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
1,1-Dichloroethene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
1,1-Dichloropropene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
1,2,3-Trichlorobenzene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
1,2,3-Trichloropropane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
1,2,4-Trichlorobenzene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
1,2,4-Trimethylbenzene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
1,2-Dibromo-3-chloropropane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S18-0001

Lab ID: 1305699-11

Collection Date: 5/30/2013 04:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
1,2-Dichlorobenzene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
1,2-Dichloroethane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
1,2-Dichloropropane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
1,3,5-Trimethylbenzene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
1,3-Dichlorobenzene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
1,3-Dichloropropane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
1,4-Dichlorobenzene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
2,2-Dichloropropane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
2-Butanone	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
2-Chlorotoluene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
2-Hexanone	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
4-Chlorotoluene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
4-Methyl-2-pentanone	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Acetone	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Benzene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Bromobenzene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Bromochloromethane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Bromodichloromethane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Bromoform	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Bromomethane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Carbon disulfide	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Carbon tetrachloride	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Chlorobenzene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Chloroethane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Chloroform	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Chloromethane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
cis-1,2-Dichloroethene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
cis-1,3-Dichloropropene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Dibromochloromethane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Dibromomethane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Dichlorodifluoromethane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Ethylbenzene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Hexachlorobutadiene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Isopropylbenzene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
m,p-Xylene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Methyl tert-butyl ether	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Methylene chloride	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Naphthalene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
n-Butylbenzene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S18-0001

Lab ID: 1305699-11

Collection Date: 5/30/2013 04:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
o-Xylene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
p-Isopropyltoluene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
sec-Butylbenzene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Styrene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
tert-Butylbenzene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Tetrachloroethene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Toluene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
trans-1,2-Dichloroethene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
trans-1,3-Dichloropropene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Trichloroethene	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Trichlorofluoromethane	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Vinyl chloride	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Xylenes, Total	ND		6.6	µg/Kg-dry	1	6/5/2013 05:37 PM
Surr: 4-Bromofluorobenzene	99.1		62.7-159	%REC	1	6/5/2013 05:37 PM
Surr: Dibromofluoromethane	104		88.2-133	%REC	1	6/5/2013 05:37 PM
Surr: Toluene-d8	98.6		81.5-110	%REC	1	6/5/2013 05:37 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S18-0102

Lab ID: 1305699-12

Collection Date: 5/30/2013 04:55 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/7/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/11/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/11/2013
Surr: Decachlorobiphenyl	86.2		22-156	%REC	1	6/11/2013
Surr: Tetrachloro-m-xylene	98.2		34-145	%REC	1	6/11/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S19-0001

Lab ID: 1305699-13

Collection Date: 5/30/2013 05:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/7/2013	Analyst: SAD
Aroclor 1016	ND		0.20	mg/Kg-dry	1	6/11/2013
Aroclor 1221	ND		0.40	mg/Kg-dry	1	6/11/2013
Aroclor 1232	ND		0.20	mg/Kg-dry	1	6/11/2013
Aroclor 1242	ND		0.20	mg/Kg-dry	1	6/11/2013
Aroclor 1248	ND		0.20	mg/Kg-dry	1	6/11/2013
Aroclor 1254	ND		0.20	mg/Kg-dry	1	6/11/2013
Aroclor 1260	ND		0.20	mg/Kg-dry	1	6/11/2013
Surr: Decachlorobiphenyl	82.4		22-156	%REC	1	6/11/2013
Surr: Tetrachloro-m-xylene	92.8		34-145	%REC	1	6/11/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	50		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S19-0001-B

Lab ID: 1305699-14

Collection Date: 5/30/2013 05:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/7/2013	Analyst: SAD
Aroclor 1016	ND		0.19	mg/Kg-dry	1	6/11/2013
Aroclor 1221	ND		0.38	mg/Kg-dry	1	6/11/2013
Aroclor 1232	ND		0.19	mg/Kg-dry	1	6/11/2013
Aroclor 1242	ND		0.19	mg/Kg-dry	1	6/11/2013
Aroclor 1248	ND		0.19	mg/Kg-dry	1	6/11/2013
Aroclor 1254	ND		0.19	mg/Kg-dry	1	6/11/2013
Aroclor 1260	ND		0.19	mg/Kg-dry	1	6/11/2013
Surr: Decachlorobiphenyl	88.4		22-156	%REC	1	6/11/2013
Surr: Tetrachloro-m-xylene	100		34-145	%REC	1	6/11/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	47		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S19-0304

Lab ID: 1305699-15

Collection Date: 5/30/2013 06:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/7/2013	Analyst: SAD
Aroclor 1016	ND		0.14	mg/Kg-dry	1	6/11/2013
Aroclor 1221	ND		0.28	mg/Kg-dry	1	6/11/2013
Aroclor 1232	ND		0.14	mg/Kg-dry	1	6/11/2013
Aroclor 1242	ND		0.14	mg/Kg-dry	1	6/11/2013
Aroclor 1248	ND		0.14	mg/Kg-dry	1	6/11/2013
Aroclor 1254	ND		0.14	mg/Kg-dry	1	6/11/2013
Aroclor 1260	ND		0.14	mg/Kg-dry	1	6/11/2013
Surr: Decachlorobiphenyl	74.0		22-156	%REC	1	6/11/2013
Surr: Tetrachloro-m-xylene	90.6		34-145	%REC	1	6/11/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	27		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S27-0001

Lab ID: 1305699-16

Collection Date: 5/30/2013 06:03 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/7/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/11/2013
Aroclor 1221	ND		0.26	mg/Kg-dry	1	6/11/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/11/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/11/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/11/2013
Aroclor 1254	1.1		0.13	mg/Kg-dry	1	6/11/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/11/2013
Surr: Decachlorobiphenyl	87.2		22-156	%REC	1	6/11/2013
Surr: Tetrachloro-m-xylene	89.6		34-145	%REC	1	6/11/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	22		0.010	% of sample	1	6/3/2013

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S27-0102

Lab ID: 1305699-17

Collection Date: 5/30/2013 06:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/7/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/11/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/11/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/11/2013
Surr: Decachlorobiphenyl	84.6		22-156	%REC	1	6/11/2013
Surr: Tetrachloro-m-xylene	88.0		34-145	%REC	1	6/11/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	18		0.010	% of sample	1	6/3/2013
MERCURY BY CVAA			SW7471A		Prep Date: 6/6/2013	Analyst: SLW
Mercury	ND		0.34	mg/Kg-dry	1	6/7/2013 05:36 PM
METALS BY ICP			SW6010B		Prep Date: 6/3/2013	Analyst: VAW
Aluminum	12,000		600	mg/Kg-dry	1	6/3/2013 11:35 AM
Antimony	ND		3.6	mg/Kg-dry	1	6/3/2013 11:35 AM
Arsenic	12		6.0	mg/Kg-dry	1	6/3/2013 11:35 AM
Barium	77		12	mg/Kg-dry	1	6/3/2013 11:35 AM
Beryllium	0.62		0.024	mg/Kg-dry	1	6/3/2013 11:35 AM
Cadmium	ND		1.2	mg/Kg-dry	1	6/3/2013 11:35 AM
Calcium	44,000		600	mg/Kg-dry	1	6/3/2013 11:35 AM
Chromium	19		2.4	mg/Kg-dry	1	6/3/2013 11:35 AM
Cobalt	12		6.0	mg/Kg-dry	1	6/3/2013 11:35 AM
Copper	21		6.0	mg/Kg-dry	1	6/3/2013 11:35 AM
Iron	30,000		120	mg/Kg-dry	1	6/3/2013 11:35 AM
Lead	11		6.0	mg/Kg-dry	1	6/3/2013 11:35 AM
Magnesium	10,000		120	mg/Kg-dry	1	6/3/2013 11:35 AM
Manganese	460		6.0	mg/Kg-dry	1	6/3/2013 11:35 AM
Nickel	32		6.0	mg/Kg-dry	1	6/3/2013 11:35 AM
Potassium	1,600		600	mg/Kg-dry	1	6/3/2013 11:35 AM
Selenium	ND		3.6	mg/Kg-dry	1	6/3/2013 11:35 AM
Silver	ND		1.2	mg/Kg-dry	1	6/3/2013 11:35 AM
Sodium	ND		600	mg/Kg-dry	1	6/3/2013 11:35 AM
Thallium	ND		3.6	mg/Kg-dry	1	6/3/2013 11:35 AM
Vanadium	22		6.0	mg/Kg-dry	1	6/3/2013 11:35 AM
Zinc	58		6.0	mg/Kg-dry	1	6/3/2013 11:35 AM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/5/2013	Analyst: Microb

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S27-0102

Lab ID: 1305699-17

Collection Date: 5/30/2013 06:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		1.9	µg/Kg	1	6/12/2013 11:08 AM
4,4'-DDE	ND		1.9	µg/Kg	1	6/12/2013 11:08 AM
4,4'-DDT	ND		1.9	µg/Kg	1	6/12/2013 11:08 AM
Aldrin	ND		1.9	µg/Kg	1	6/12/2013 11:08 AM
alpha-BHC	ND		1.9	µg/Kg	1	6/12/2013 11:08 AM
alpha-Chlordane	ND		1.9	µg/Kg	1	6/12/2013 11:08 AM
beta-BHC	ND		1.9	µg/Kg	1	6/12/2013 11:08 AM
delta-BHC	ND		1.9	µg/Kg	1	6/12/2013 11:08 AM
Dieldrin	ND		1.9	µg/Kg	1	6/12/2013 11:08 AM
Endosulfan I	ND		1.9	µg/Kg	1	6/12/2013 11:08 AM
Endosulfan II	ND		1.9	µg/Kg	1	6/12/2013 11:08 AM
Endosulfan sulfate	ND		1.9	µg/Kg	1	6/12/2013 11:08 AM
Endrin	ND		1.9	µg/Kg	1	6/12/2013 11:08 AM
Endrin aldehyde	ND		1.9	µg/Kg	1	6/12/2013 11:08 AM
Endrin ketone	ND		1.9	µg/Kg	1	6/12/2013 11:08 AM
gamma-BHC (Lindane)	ND		1.9	µg/Kg	1	6/12/2013 11:08 AM
gamma-Chlordane	ND		1.9	µg/Kg	1	6/12/2013 11:08 AM
Heptachlor	ND		1.9	µg/Kg	1	6/12/2013 11:08 AM
Heptachlor epoxide	ND		1.9	µg/Kg	1	6/12/2013 11:08 AM
Methoxychlor	ND		1.9	µg/Kg	1	6/12/2013 11:08 AM
Toxaphene	ND		38	µg/Kg	1	6/12/2013 11:08 AM
<i>Surr: Decachlorobiphenyl</i>	37.2		33-143	%REC	1	6/12/2013 11:08 AM
<i>Surr: Tetrachloro-m-xylene</i>	42.2		39-130	%REC	1	6/12/2013 11:08 AM

HERBICIDES

SW8151

Prep Date: 6/6/2013

Analyst: Microb

2,4,5-T	ND		0.0053	mg/Kg	1	6/11/2013 05:10 AM
2,4,5-TP (Silvex)	ND		0.0040	mg/Kg	1	6/11/2013 05:10 AM
2,4-D	ND		0.053	mg/Kg	1	6/11/2013 05:10 AM
2,4-DB	ND		0.053	mg/Kg	1	6/11/2013 05:10 AM
Dalapon	ND		0.13	mg/Kg	1	6/11/2013 05:10 AM
Dicamba	ND		0.0053	mg/Kg	1	6/11/2013 05:10 AM
Dichlorprop	ND		0.053	mg/Kg	1	6/11/2013 05:10 AM
Dinoseb	ND		0.026	mg/Kg	1	6/11/2013 05:10 AM
MCPA	ND		5.3	mg/Kg	1	6/11/2013 05:10 AM
MCPP	ND		5.3	mg/Kg	1	6/11/2013 05:10 AM
Pentachlorophenol	ND		0.0053	mg/Kg	1	6/11/2013 05:10 AM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	97.4		25-110	%REC	1	6/11/2013 05:10 AM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 6/5/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
1,2,4-Trichlorobenzene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S27-0102

Lab ID: 1305699-17

Collection Date: 5/30/2013 06:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
1,3-Dichlorobenzene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
1,3-Dinitrobenzene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
1,4-Dichlorobenzene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
1-Methylnaphthalene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
1-Naphthylamine	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
2,3,4,6-Tetrachlorophenol	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
2,4,5-Trichlorophenol	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
2,4,6-Trichlorophenol	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
2,4-Dichlorophenol	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
2,4-Dimethylphenol	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
2,4-Dinitrophenol	ND		2,000	µg/Kg-dry	1	6/10/2013 09:54 PM
2,4-Dinitrotoluene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
2,6-Dichlorophenol	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
2,6-Dinitrotoluene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
2-Acetylaminofluorene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
2-Chloronaphthalene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
2-Chlorophenol	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
2-Methylnaphthalene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
2-Methylphenol	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
2-Naphthylamine	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
2-Nitroaniline	ND		2,000	µg/Kg-dry	1	6/10/2013 09:54 PM
2-Nitrophenol	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
2-Picoline	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
3&4-Methylphenol	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
3,3'-Dichlorobenzidine	ND		810	µg/Kg-dry	1	6/10/2013 09:54 PM
3-Methylcholanthrene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
3-Nitroaniline	ND		2,000	µg/Kg-dry	1	6/10/2013 09:54 PM
4,6-Dinitro-2-methylphenol	ND		2,000	µg/Kg-dry	1	6/10/2013 09:54 PM
4-Aminobiphenyl	ND		810	µg/Kg-dry	1	6/10/2013 09:54 PM
4-Bromophenyl phenyl ether	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
4-Chloro-3-methylphenol	ND		810	µg/Kg-dry	1	6/10/2013 09:54 PM
4-Chloroaniline	ND		810	µg/Kg-dry	1	6/10/2013 09:54 PM
4-Chlorophenyl phenyl ether	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
4-Nitroaniline	ND		810	µg/Kg-dry	1	6/10/2013 09:54 PM
4-Nitrophenol	ND		2,000	µg/Kg-dry	1	6/10/2013 09:54 PM
4-Nitroquinoline 1-oxide	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
5-Nitro-o-toluidine	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
7,12-Dimethylbenz(a)anthracene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Acenaphthene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S27-0102

Lab ID: 1305699-17

Collection Date: 5/30/2013 06:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Acetophenone	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Aniline	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Anthracene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Azobenzene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Benzidine	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Benzo(a)anthracene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Benzo(a)pyrene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Benzo(b)fluoranthene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Benzo(g,h,i)perylene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Benzo(k)fluoranthene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Benzyl alcohol	ND		810	µg/Kg-dry	1	6/10/2013 09:54 PM
Bis(2-chloroethoxy)methane	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Bis(2-chloroethyl)ether	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Bis(2-chloroisopropyl)ether	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Bis(2-ethylhexyl)phthalate	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Butyl benzyl phthalate	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Carbazole	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Chrysene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Dibenzo(a,h)anthracene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Dibenzofuran	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Diethyl phthalate	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Dimethyl phthalate	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Di-n-butyl phthalate	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Di-n-octyl phthalate	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Dinoseb	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Diphenylamine	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Ethyl methanesulfonate	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Fluoranthene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Fluorene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Hexachlorobenzene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Hexachlorobutadiene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Hexachlorocyclopentadiene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Hexachloroethane	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Indeno(1,2,3-cd)pyrene	ND		180	µg/Kg-dry	1	6/10/2013 09:54 PM
Isophorone	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Isosafrole	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Methapyrilene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Methyl methanesulfonate	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Naphthalene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S27-0102

Lab ID: 1305699-17

Collection Date: 5/30/2013 06:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
N-Nitrosodiethylamine	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
N-Nitrosodimethylamine	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
N-Nitroso-di-n-butylamine	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
N-Nitrosodi-n-propylamine	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
N-Nitrosomethylethylamine	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
N-Nitrosomorpholine	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
N-Nitrosopiperidine	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
N-Nitrosopyrrolidine	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
o-Toluidine	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
p-Dimethylaminoazobenzene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Pentachlorobenzene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Pentachloroethane	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Pentachloronitrobenzene	ND		810	µg/Kg-dry	1	6/10/2013 09:54 PM
Pentachlorophenol	ND		2,000	µg/Kg-dry	1	6/10/2013 09:54 PM
Phenacetin	ND		810	µg/Kg-dry	1	6/10/2013 09:54 PM
Phenanthrene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Phenol	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Pyrene	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Pyridine	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
Safrole	ND		400	µg/Kg-dry	1	6/10/2013 09:54 PM
<i>Surr: 2,4,6-Tribromophenol</i>	63.6		18-115	%REC	1	6/10/2013 09:54 PM
<i>Surr: 2-Fluorobiphenyl</i>	43.3		30-116	%REC	1	6/10/2013 09:54 PM
<i>Surr: 2-Fluorophenol</i>	38.3		24-105	%REC	1	6/10/2013 09:54 PM
<i>Surr: 4-Terphenyl-d14</i>	56.3		40-127	%REC	1	6/10/2013 09:54 PM
<i>Surr: Nitrobenzene-d5</i>	43.5		32-106	%REC	1	6/10/2013 09:54 PM
<i>Surr: Phenol-d5</i>	45.8		39-123	%REC	1	6/10/2013 09:54 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 6/5/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
1,1,1-Trichloroethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
1,1,2,2-Tetrachloroethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
1,1,2-Trichloroethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
1,1-Dichloroethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
1,1-Dichloroethene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
1,1-Dichloropropene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
1,2,3-Trichlorobenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
1,2,3-Trichloropropane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
1,2,4-Trichlorobenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
1,2,4-Trimethylbenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
1,2-Dibromo-3-chloropropane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S27-0102

Lab ID: 1305699-17

Collection Date: 5/30/2013 06:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
1,2-Dichlorobenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
1,2-Dichloroethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
1,2-Dichloropropane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
1,3,5-Trimethylbenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
1,3-Dichlorobenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
1,3-Dichloropropane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
1,4-Dichlorobenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
2,2-Dichloropropane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
2-Butanone	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
2-Chlorotoluene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
2-Hexanone	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
4-Chlorotoluene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
4-Methyl-2-pentanone	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Acetone	40		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Benzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Bromobenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Bromochloromethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Bromodichloromethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Bromoform	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Bromomethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Carbon disulfide	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Carbon tetrachloride	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Chlorobenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Chloroethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Chloroform	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Chloromethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
cis-1,2-Dichloroethene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
cis-1,3-Dichloropropene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Dibromochloromethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Dibromomethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Dichlorodifluoromethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Ethylbenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Hexachlorobutadiene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Isopropylbenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
m,p-Xylene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Methyl tert-butyl ether	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Methylene chloride	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Naphthalene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
n-Butylbenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305699

Sample ID: S27-0102

Lab ID: 1305699-17

Collection Date: 5/30/2013 06:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
o-Xylene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
p-Isopropyltoluene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
sec-Butylbenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Styrene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
tert-Butylbenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Tetrachloroethene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Toluene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
trans-1,2-Dichloroethene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
trans-1,3-Dichloropropene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Trichloroethene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Trichlorofluoromethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Vinyl chloride	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Xylenes, Total	ND		5.4	µg/Kg-dry	1	6/5/2013 06:08 PM
Surr: 4-Bromofluorobenzene	93.2		62.7-159	%REC	1	6/5/2013 06:08 PM
Surr: Dibromofluoromethane	105		88.2-133	%REC	1	6/5/2013 06:08 PM
Surr: Toluene-d8	98.2		81.5-110	%REC	1	6/5/2013 06:08 PM

Note:

Client: AECOM

QC BATCH REPORT

Work Order: 1305699

Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

Batch ID: 17042

Instrument ID: GC9

Method: SW8082

MBLK		Sample ID: MBLK-17042-17042			Units: mg/Kg		Analysis Date: 6/11/2013			
Client ID:		Run ID: GC9_130611C			SeqNo: 626374		Prep Date: 6/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.0896	0	0.1	0	89.6	22-156	0			
Surr: Tetrachloro-m-xylene	0.0938	0	0.1	0	93.8	34-145	0			

LCS		Sample ID: LCS-17042-17042			Units: mg/Kg		Analysis Date: 6/11/2013			
Client ID:		Run ID: GC9_130611C			SeqNo: 626375		Prep Date: 6/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.125	0.10	2	0	106	50-133	0			
Surr: Decachlorobiphenyl	0.1006	0	0.1	0	101	22-156	0			
Surr: Tetrachloro-m-xylene	0.1032	0	0.1	0	103	34-145	0			

MS		Sample ID: 1305699-08B MS			Units: mg/Kg		Analysis Date: 6/11/2013			
Client ID: S15-0102		Run ID: GC9_130611C			SeqNo: 626285		Prep Date: 6/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.027	0.10	2	0	101	31-150	0			
Surr: Decachlorobiphenyl	0.0858	0	0.1	0	85.8	22-156	0			
Surr: Tetrachloro-m-xylene	0.085	0	0.1	0	85	34-145	0			

MSD		Sample ID: 1305699-08B MSD			Units: mg/Kg		Analysis Date: 6/11/2013			
Client ID: S15-0102		Run ID: GC9_130611C			SeqNo: 626286		Prep Date: 6/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.032	0.099	1.988	0	102	31-150	2.027	0.247	53	
Surr: Decachlorobiphenyl	0.08827	0	0.0994	0	88.8	22-156	0.0858	2.84		
Surr: Tetrachloro-m-xylene	0.08867	0	0.0994	0	89.2	34-145	0.085	4.22		

The following samples were analyzed in this batch:

1305699-01A	1305699-02A	1305699-03B
1305699-04A	1305699-05A	1305699-06A
1305699-07A	1305699-08B	1305699-09A
1305699-10A	1305699-11B	1305699-12A
1305699-13A	1305699-14A	1305699-15A
1305699-16A	1305699-17B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305699
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17039 Instrument ID: HG1 Method: SW7471A

MBLK	Sample ID: MBLK-17039-17039					Units: mg/Kg	Analysis Date: 6/7/2013 05:11 PM				
Client ID:	Run ID: HG1_130607A					SeqNo: 623160	Prep Date: 6/6/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury ND 0.30

LCS	Sample ID: LCS-17039-17039					Units: mg/Kg	Analysis Date: 6/7/2013 05:07 PM				
Client ID:	Run ID: HG1_130607A					SeqNo: 623158	Prep Date: 6/6/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 1.14 0.30 1.117 0 102 69-147 0

LCSD	Sample ID: LCSD-17039-17039					Units: mg/Kg	Analysis Date: 6/7/2013 05:09 PM				
Client ID:	Run ID: HG1_130607A					SeqNo: 623159	Prep Date: 6/6/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 1.199 0.30 1.102 0 109 69-147 1.14 5 20

MS	Sample ID: 1305699-17B MS					Units: mg/Kg	Analysis Date: 6/7/2013 05:38 PM				
Client ID: S27-0102	Run ID: HG1_130607A					SeqNo: 623171	Prep Date: 6/6/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.7701 0.29 0.8002 -0.001551 96.4 69-147 0

MSD	Sample ID: 1305699-17B MSD					Units: mg/Kg	Analysis Date: 6/7/2013 05:40 PM				
Client ID: S27-0102	Run ID: HG1_130607A					SeqNo: 623172	Prep Date: 6/6/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.7166 0.28 0.7686 -0.001551 93.4 69-147 0.7701 7.2 20

The following samples were analyzed in this batch:

1305699-03B	1305699-08B	1305699-11B
1305699-17B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305699
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16961** Instrument ID: **ICP3** Method: **SW6010B**

MBLK	Sample ID: mblk-16961-16961		Units: mg/Kg				Analysis Date: 6/3/2013 10:27 AM			
Client ID:	Run ID: ICP3_130603A		SeqNo: 619384		Prep Date: 6/3/2013		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500								
Antimony	ND	3.0								
Arsenic	ND	5.0								
Barium	ND	10								
Beryllium	ND	0.50								
Cadmium	ND	1.0								
Calcium	ND	500								
Chromium	ND	2.0								
Cobalt	ND	5.0								
Copper	ND	5.0								
Iron	ND	100								
Lead	ND	5.0								
Magnesium	ND	100								
Manganese	ND	5.0								
Nickel	ND	5.0								
Potassium	ND	500								
Selenium	ND	3.0								
Silver	ND	1.0								
Sodium	ND	500								
Thallium	ND	3.0								
Vanadium	ND	5.0								
Zinc	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305699
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16961 Instrument ID: ICP3 Method: SW6010B

LCS		Sample ID: Ics-16961-16961			Units: mg/Kg		Analysis Date: 6/3/2013 10:34 AM			
Client ID:		Run ID: ICP3_130603A			SeqNo: 619385		Prep Date: 6/3/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500	100	0	100	80-120	0			
Antimony	99.79	3.0	100	0	99.8	80-120	0			
Arsenic	104.1	5.0	100	0	104	80-120	0			
Barium	106.4	10	100	0	106	80-120	0			
Beryllium	100.5	0.50	100	0	100	80-120	0			
Cadmium	103.4	1.0	100	0	103	80-120	0			
Calcium	ND	500	100	0	101	80-120	0			
Chromium	103.1	2.0	100	0	103	80-120	0			
Cobalt	102.3	5.0	100	0	102	80-120	0			
Copper	102.5	5.0	100	0	102	80-120	0			
Iron	101.7	100	100	0	102	80-120	0			
Lead	106.1	5.0	100	0	106	80-120	0			
Magnesium	104.2	100	100	0	104	80-120	0			
Manganese	100.8	5.0	100	0	101	80-120	0			
Nickel	102.6	5.0	100	0	103	80-120	0			
Potassium	1003	500	100	0	1000	80-120	0			S
Selenium	104.7	3.0	100	0	105	80-120	0			
Silver	103.2	1.0	100	0	103	80-120	0			
Sodium	ND	500	100	0	101	80-120	0			
Thallium	102.3	3.0	100	0	102	80-120	0			
Vanadium	99.42	5.0	100	0	99.4	80-120	0			
Zinc	103.6	5.0	100	0	104	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305699
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16961 Instrument ID: ICP3 Method: SW6010B

LCSD	Sample ID: Icsd-16961-16961	Units: mg/Kg					Analysis Date: 6/3/2013 10:40 AM				
Client ID:	Run ID: ICP3_130603A	SeqNo: 619386					Prep Date: 6/3/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aluminum	ND	500	100	0	97.6	80-120	100	0	20		
Antimony	100.9	3.0	100	0	101	80-120	99.79	1.11	20		
Arsenic	104.5	5.0	100	0	104	80-120	104.1	0.384	20		
Barium	107	10	100	0	107	80-120	106.4	0.562	20		
Beryllium	100.7	0.50	100	0	101	80-120	100.5	0.199	20		
Cadmium	104	1.0	100	0	104	80-120	103.4	0.579	20		
Calcium	ND	500	100	0	100	80-120	100.7	0	20		
Chromium	103.2	2.0	100	0	103	80-120	103.1	0.0969	20		
Cobalt	102.6	5.0	100	0	103	80-120	102.3	0.293	20		
Copper	102.6	5.0	100	0	103	80-120	102.5	0.0975	20		
Iron	101.7	100	100	0	102	80-120	101.7	0	20		
Lead	106.3	5.0	100	0	106	80-120	106.1	0.188	20		
Magnesium	107.2	100	100	0	107	80-120	104.2	2.84	20		
Manganese	101.8	5.0	100	0	102	80-120	100.8	0.987	20		
Nickel	102.8	5.0	100	0	103	80-120	102.6	0.195	20		
Potassium	1008	500	100	0	1010	80-120	1003	0.497	20	S	
Selenium	105.4	3.0	100	0	105	80-120	104.7	0.666	20		
Silver	103.9	1.0	100	0	104	80-120	103.2	0.676	20		
Sodium	ND	500	100	0	100	80-120	100.8	0	20		
Thallium	102.7	3.0	100	0	103	80-120	102.3	0.39	20		
Vanadium	99.95	5.0	100	0	100	80-120	99.42	0.532	20		
Zinc	104.3	5.0	100	0	104	80-120	103.6	0.673	20		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305699
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16961** Instrument ID: **ICP3** Method: **SW6010B**

MS		Sample ID: 1305676-01a ms			Units: mg/Kg		Analysis Date: 6/3/2013 10:52 AM			
Client ID:		Run ID: ICP3_130603A			SeqNo: 619388		Prep Date: 6/3/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	13420	490	98.33	13220	204	80-120	0			SO
Antimony	86.48	2.9	98.33	-0.8312	88.8	75-125	0			
Arsenic	99.41	4.9	98.33	4.224	96.8	75-125	0			
Barium	109	9.8	98.33	21.18	89.4	75-125	0			
Beryllium	96.19	0.49	98.33	0.7202	97.1	75-125	0			
Cadmium	92.66	0.98	98.33	-0.7496	95	75-125	0			
Calcium	32110	490	98.33	27580	4610	75-125	0			SO
Chromium	113.3	2.0	98.33	19.8	95.1	75-125	0			
Cobalt	97.77	4.9	98.33	14.01	85.2	75-125	0			
Copper	118.6	4.9	98.33	25.84	94.3	75-125	0			
Iron	35310	98	98.33	30670	4720	75-125	0			SO
Lead	94.9	4.9	98.33	10.13	86.2	75-125	0			
Magnesium	6393	98	98.33	6398	-4.68	75-125	0			SO
Manganese	568.3	4.9	98.33	528.3	40.8	75-125	0			SO
Nickel	113.5	4.9	98.33	29.92	85	75-125	0			
Potassium	2299	490	98.33	1227	1090	75-125	0			SO
Selenium	93.96	2.9	98.33	2.127	93.4	75-125	0			
Silver	94.54	0.98	98.33	-0.2091	96.4	75-125	0			
Sodium	ND	490	98.33	168.2	78.9	75-125	0			
Thallium	80.77	2.9	98.33	0.6315	81.5	75-125	0			
Vanadium	118.1	4.9	98.33	22.74	97	75-125	0			
Zinc	154.8	4.9	98.33	68.19	88	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305699
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16961 Instrument ID: ICP3 Method: SW6010B

MSD		Sample ID: 1305676-01a msd			Units: mg/Kg		Analysis Date: 6/3/2013 10:58 AM			
Client ID:		Run ID: ICP3_130603A			SeqNo: 619389		Prep Date: 6/3/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	13700	490	98.37	13220	489	75-125	13420	2.07	20	SO
Antimony	87.91	3.0	98.37	-0.8312	90.2	75-125	86.48	1.64	20	
Arsenic	99.74	4.9	98.37	4.224	97.1	75-125	99.41	0.336	20	
Barium	106.9	9.8	98.37	21.18	87.2	75-125	109	1.96	20	
Beryllium	96.41	0.49	98.37	0.7202	97.3	75-125	96.19	0.223	20	
Cadmium	93.65	0.98	98.37	-0.7496	96	75-125	92.66	1.05	20	
Calcium	37440	490	98.37	27580	10000	75-125	32110	15.3	20	SO
Chromium	109.2	2.0	98.37	19.8	90.9	75-125	113.3	3.67	20	
Cobalt	99.25	4.9	98.37	14.01	86.7	75-125	97.77	1.51	20	
Copper	114.9	4.9	98.37	25.84	90.5	75-125	118.6	3.16	20	
Iron	30000	98	98.37	30670	-675	75-125	35310	16.3	20	SO
Lead	93.31	4.9	98.37	10.13	84.6	75-125	94.9	1.69	20	
Magnesium	6778	98	98.37	6398	387	75-125	6393	5.85	20	SO
Manganese	536.5	4.9	98.37	528.3	8.38	75-125	568.3	5.76	20	SO
Nickel	113.5	4.9	98.37	29.92	85	75-125	113.5	0.0393	20	
Potassium	2324	490	98.37	1227	1120	75-125	2299	1.1	20	SO
Selenium	96.03	3.0	98.37	2.127	95.5	75-125	93.96	2.17	20	
Silver	94.9	0.98	98.37	-0.2091	96.7	75-125	94.54	0.382	20	
Sodium	ND	490	98.37	168.2	64.7	75-125	245.8	0	20	S
Thallium	81.02	3.0	98.37	0.6315	81.7	75-125	80.77	0.319	20	
Vanadium	114.8	4.9	98.37	22.74	93.6	75-125	118.1	2.83	20	
Zinc	152.9	4.9	98.37	68.19	86.1	75-125	154.8	1.24	20	

The following samples were analyzed in this batch:

1305699-03b	1305699-08b	1305699-11b
1305699-17b		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305699
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99921** Instrument ID: **SUB** Method: **SW8151**

MBLK		Sample ID: BLANK-R99921			Units: µg/Kg		Analysis Date: 6/10/2013 11:59 PM			
Client ID:		Run ID: SUB_130612A			SeqNo: 630781		Prep Date: 6/6/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	ND	4.0								
2,4,5-TP (Silvex)	ND	3.0								
2,4-D	ND	40								
2,4-DB	ND	40								
Dalapon	ND	100								
Dicamba	ND	4.0								
Dichlorprop	ND	40								
Dinoseb	ND	20								
MCPA	ND	4,000								
MCPP	ND	4,000								
Pentachlorophenol	ND	4.0								
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	96.7	0	100	0	96.7	25-110	0			

LCS		Sample ID: lcs-R99921			Units: µg/Kg		Analysis Date: 6/11/2013 12:25 AM			
Client ID:		Run ID: SUB_130612A			SeqNo: 630782		Prep Date: 6/6/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	8.19	4.0	10	0	81.9	25-120	0			
2,4,5-TP (Silvex)	8.38	3.0	10	0	83.8	30-125	0			
2,4-D	68	40	100	0	68	15-120	0			
2,4-DB	941	40	100	0	941	20-125	0			S
Dalapon	146	100	250	0	58.4	10-105	0			
Dicamba	8.93	4.0	10	0	89.3	45-150	0			
Dichlorprop	90.3	40	100	0	90.3	20-130	0			
Dinoseb	42	20	50	0	84	25-125	0			
MCPA	6880	4,000	10000	0	68.8	10-120	0			
MCPP	7180	4,000	10000	0	71.8	10-130	0			
Pentachlorophenol	7.23	4.0	10	0	72.3	30-110	0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	107	0	100	0	107	25-110	0			

The following samples were analyzed in this batch:

1305699-03C	1305699-08C	1305699-11C
1305699-17C		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305699
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99921b** Instrument ID: **SUB** Method: **SW8081A**

MBLK	Sample ID: BLANK-R99921b	Units: µg/Kg				Analysis Date: 6/12/2013 12:02 AM				
Client ID:	Run ID: SUB_130612A	SeqNo: 632032		Prep Date: 6/5/2013	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	1.6								
4,4'-DDE	ND	1.6								
4,4'-DDT	ND	1.6								
Aldrin	ND	1.6								
alpha-BHC	ND	1.6								
alpha-Chlordane	ND	1.6								
beta-BHC	ND	1.6								
delta-BHC	ND	1.6								
Dieldrin	ND	1.6								
Endosulfan I	ND	1.6								
Endosulfan II	ND	1.6								
Endosulfan sulfate	ND	1.6								
Endrin	ND	1.6								
Endrin aldehyde	ND	1.6								
Endrin ketone	ND	1.6								
gamma-BHC (Lindane)	ND	1.6								
gamma-Chlordane	ND	1.6								
Heptachlor	ND	1.6								
Heptachlor epoxide	ND	1.6								
Methoxychlor	ND	1.6								
Toxaphene	ND	33								
<i>Surr: Decachlorobiphenyl</i>	76.6	0	100	0	76.6	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	94.4	0	100	0	94.4	39-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305699
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99921b** Instrument ID: **SUB** Method: **SW8081A**

LCS		Sample ID: lcs-R99921b			Units: µg/Kg		Analysis Date: 6/12/2013 12:02 AM			
Client ID:		Run ID: SUB_130612A			SeqNo: 632033		Prep Date: 6/5/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	10.9	1.6	16.7	0	65.3	60-110	0			
4,4'-DDE	10.7	1.6	16.7	0	64.1	55-110	0			
4,4'-DDT	12.3	1.6	16.7	0	73.7	60-115	0			
Aldrin	9.13	1.6	16.7	0	54.7	50-100	0			
alpha-BHC	9.93	1.6	16.7	0	59.5	50-100	0			
alpha-Chlordane	9.53	1.6	16.7	0	57.1	55-105	0			
beta-BHC	10.3	1.6	16.7	0	61.7	50-100	0			
delta-BHC	10.5	1.6	16.7	0	62.9	50-110	0			
Dieldrin	10.5	1.6	16.7	0	62.9	60-110	0			
Endosulfan I	11	1.6	16.7	0	65.9	40-100	0			
Endosulfan II	11	1.6	16.7	0	65.9	40-100	0			
Endosulfan sulfate	11.1	1.6	16.7	0	66.5	45-115	0			
Endrin	11.7	1.6	16.7	0	70.1	55-100	0			
Endrin aldehyde	9.66	1.6	16.7	0	57.8	45-110	0			
Endrin ketone	10	1.6	16.7	0	59.9	55-115	0			
gamma-BHC (Lindane)	12.7	1.6	16.7	0	76	50-100	0			
gamma-Chlordane	10.1	1.6	16.7	0	60.5	50-110	0			
Heptachlor	10.4	1.6	16.7	0	62.3	50-105	0			
Heptachlor epoxide	11.2	1.6	16.7	0	67.1	55-105	0			
Methoxychlor	13.3	1.6	16.7	0	79.6	60-125	0			
<i>Surr: Decachlorobiphenyl</i>	77.7	0	100	0	77.7	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	51	0	100	0	51	39-130	0			

LCS		Sample ID: lcs-R99921b			Units: µg/Kg		Analysis Date: 6/12/2013 12:30 AM			
Client ID:		Run ID: SUB_130612A			SeqNo: 632198		Prep Date: 6/5/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Toxaphene	52.4	33	66.7	0	78.6			0		
<i>Surr: Decachlorobiphenyl</i>	81.3	0	100	0	81.3			0		
<i>Surr: Tetrachloro-m-xylene</i>	49.6	0	100	0	49.6			0		

The following samples were analyzed in this batch:

1305699-03C	1305699-08C	1305699-11C
1305699-17C		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305699
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17021** Instrument ID: **SVMS2** Method: **SW8270C**

MBLK		Sample ID: MBLK-17021-17021			Units: µg/Kg		Analysis Date: 6/5/2013 07:08 PM			
Client ID:		Run ID: SVMS2_130605B			SeqNo: 621579		Prep Date: 6/5/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	330								
1,2,4-Trichlorobenzene	ND	330								
1,2-Dichlorobenzene	ND	330								
1,3-Dichlorobenzene	ND	330								
1,3-Dinitrobenzene	ND	330								
1,4-Dichlorobenzene	ND	330								
1-Methylnaphthalene	ND	330								
1-Naphthylamine	ND	330								
2,3,4,6-Tetrachlorophenol	ND	330								
2,4,5-Trichlorophenol	ND	330								
2,4,6-Trichlorophenol	ND	330								
2,4-Dichlorophenol	ND	330								
2,4-Dimethylphenol	ND	330								
2,4-Dinitrophenol	ND	1,600								
2,4-Dinitrotoluene	ND	330								
2,6-Dichlorophenol	ND	330								
2,6-Dinitrotoluene	ND	330								
2-Acetylaminofluorene	ND	330								
2-Chloronaphthalene	ND	330								
2-Chlorophenol	ND	330								
2-Methylnaphthalene	ND	330								
2-Methylphenol	ND	330								
2-Naphthylamine	ND	330								
2-Nitroaniline	ND	1,600								
2-Nitrophenol	ND	330								
2-Picoline	ND	330								
3&4-Methylphenol	ND	330								
3,3'-Dichlorobenzidine	ND	660								
3-Methylcholanthrene	ND	330								
3-Nitroaniline	ND	1,600								
4,6-Dinitro-2-methylphenol	ND	1,600								
4-Aminobiphenyl	ND	660								
4-Bromophenyl phenyl ether	ND	330								
4-Chloro-3-methylphenol	ND	660								
4-Chloroaniline	ND	660								
4-Chlorophenyl phenyl ether	ND	330								
4-Nitroaniline	ND	660								
4-Nitrophenol	ND	1,600								
4-Nitroquinoline 1-oxide	ND	330								
5-Nitro-o-toluidine	ND	330								
7,12-Dimethylbenz(a)anthracene	ND	330								
Acenaphthene	ND	330								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305699
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17021	Instrument ID: SVMS2	Method: SW8270C
Acenaphthylene	ND	330
Acetophenone	ND	330
Aniline	ND	330
Anthracene	ND	330
Azobenzene	ND	330
Benzidine	ND	330
Benzo(a)anthracene	ND	330
Benzo(a)pyrene	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(g,h,i)perylene	ND	330
Benzo(k)fluoranthene	ND	330
Benzyl alcohol	ND	660
Bis(2-chloroethoxy)methane	ND	330
Bis(2-chloroethyl)ether	ND	330
Bis(2-chloroisopropyl)ether	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Butyl benzyl phthalate	ND	330
Carbazole	ND	330
Chrysene	ND	330
Dibenzo(a,h)anthracene	ND	330
Dibenzofuran	ND	330
Diethyl phthalate	ND	330
Dimethyl phthalate	ND	330
Di-n-butyl phthalate	ND	330
Di-n-octyl phthalate	ND	330
Dinoseb	ND	330
Diphenylamine	ND	330
Ethyl methanesulfonate	ND	330
Fluoranthene	ND	330
Fluorene	ND	330
Hexachlorobenzene	ND	330
Hexachlorobutadiene	ND	330
Hexachlorocyclopentadiene	ND	330
Hexachloroethane	ND	330
Indeno(1,2,3-cd)pyrene	ND	150
Isophorone	ND	330
Isosafrole	ND	330
Methapyrilene	ND	330
Methyl methanesulfonate	ND	330
Naphthalene	ND	330
Nitrobenzene	ND	330
N-Nitrosodiethylamine	ND	330
N-Nitrosodimethylamine	ND	330
N-Nitroso-di-n-butylamine	ND	330
N-Nitrosodi-n-propylamine	ND	330
N-Nitrosomethylethylamine	ND	330
N-Nitrosomorpholine	ND	330
N-Nitrosopiperidine	ND	330

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305699
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17021	Instrument ID: SVMS2	Method: SW8270C					
N-Nitrosopyrrolidine	ND	330					
o-Toluidine	ND	330					
p-Dimethylaminoazobenzene	ND	330					
Pentachlorobenzene	ND	330					
Pentachloroethane	ND	330					
Pentachloronitrobenzene	ND	660					
Pentachlorophenol	ND	1,600					
Phenacetin	ND	660					
Phenanthrene	ND	330					
Phenol	ND	330					
Pyrene	ND	330					
Pyridine	ND	330					
Safrole	ND	330					
<i>Surr: 2,4,6-Tribromophenol</i>	2693	0	3330	0	80.9	18-115	0
<i>Surr: 2-Fluorobiphenyl</i>	1300	0	1670	0	77.8	30-116	0
<i>Surr: 2-Fluorophenol</i>	1932	0	3330	0	58	24-105	0
<i>Surr: 4-Terphenyl-d14</i>	1174	0	1670	0	70.3	40-127	0
<i>Surr: Nitrobenzene-d5</i>	1489	0	1670	0	89.2	32-106	0
<i>Surr: Phenol-d5</i>	2629	0	3330	0	78.9	39-123	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305699
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17021 Instrument ID: SVMS2 Method: SW8270C

LCS		Sample ID: LCS-17021-17021			Units: µg/Kg		Analysis Date: 6/5/2013 07:43 PM			
Client ID:		Run ID: SVMS2_130605B			SeqNo: 621580		Prep Date: 6/5/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1204	330	1670	0	72.1	48.1-106	0			
1,4-Dichlorobenzene	1352	330	1670	0	81	55.5-89.4	0			
2,4-Dinitrotoluene	1660	330	1670	0	99.4	58.8-123	0			
2-Chlorophenol	1416	330	1670	0	84.8	34.7-116	0			
4-Chloro-3-methylphenol	1558	660	1670	0	93.3	32.1-109	0			
4-Nitrophenol	ND	1,600	1670	0	89.5	36.2-146	0			
Acenaphthene	1320	330	1670	0	79	67.8-104	0			
Acenaphthylene	1368	330	1670	0	81.9	65.6-103	0			
Anthracene	1328	330	1670	0	79.5	71.1-107	0			
Benzo(a)anthracene	1527	330	1670	0	91.4	60.4-118	0			
Benzo(a)pyrene	1516	330	1670	0	90.8	73.7-110	0			
Benzo(b)fluoranthene	1336	330	1670	0	80	59.9-94.8	0			
Benzo(g,h,i)perylene	1678	330	1670	0	100	40-129	0			
Benzo(k)fluoranthene	1541	330	1670	0	92.3	75.7-130	0			
Carbazole	1564	330	1670	0	93.7	69.6-107	0			
Chrysene	1516	330	1670	0	90.8	62.3-115	0			
Dibenzo(a,h)anthracene	1599	330	1670	0	95.7	59.2-121	0			
Fluoranthene	1442	330	1670	0	86.4	63-120	0			
Fluorene	1350	330	1670	0	80.8	69-106	0			
Indeno(1,2,3-cd)pyrene	1344	150	1670	0	80.5	59-110	0			
Naphthalene	1244	330	1670	0	74.5	49.1-103	0			
N-Nitrosodi-n-propylamine	1332	330	1670	0	79.8	25.3-127	0			
Pentachlorophenol	ND	1,600	1670	0	77.5	22.1-105	0			
Phenanthrene	1365	330	1670	0	81.7	70-112	0			
Phenol	1320	330	1670	0	79	36.9-97.8	0			
Pyrene	1377	330	1670	0	82.4	55-117	0			
Surr: 2,4,6-Tribromophenol	2385	0	3330	0	71.6	18-115	0			
Surr: 2-Fluorobiphenyl	1222	0	1670	0	73.2	30-116	0			
Surr: 2-Fluorophenol	2043	0	3330	0	61.4	24-105	0			
Surr: 4-Terphenyl-d14	1253	0	1670	0	75	40-127	0			
Surr: Nitrobenzene-d5	1356	0	1670	0	81.2	32-106	0			
Surr: Phenol-d5	2454	0	3330	0	73.7	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305699
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17021 Instrument ID: SVMS2 Method: SW8270C

MS		Sample ID: 1305589-01A MSS			Units: µg/Kg		Analysis Date: 6/5/2013 08:18 PM			
Client ID:		Run ID: SVMS2_130605B			SeqNo: 621581		Prep Date: 6/5/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1207	330	1673	0	72.1	50.6-92	0			
1,4-Dichlorobenzene	1395	330	1673	0	83.4	40.1-84.3	0			
2,4-Dinitrotoluene	1471	330	1673	0	88	50.3-127	0			
2-Chlorophenol	1459	330	1673	0	87.2	33.3-109	0			
4-Chloro-3-methylphenol	1467	660	1673	0	87.7	35.8-116	0			
4-Nitrophenol	ND	1,700	1673	0	79.6	38.7-135	0			
Acenaphthene	1287	330	1673	0	77	54.1-109	0			
Acenaphthylene	1323	330	1673	0	79.1	55.3-118	0			
Anthracene	1243	330	1673	0	74.3	51-106	0			
Benzo(a)anthracene	1486	330	1673	0	88.9	31.6-128	0			
Benzo(a)pyrene	1359	330	1673	0	81.2	66.1-109	0			
Benzo(b)fluoranthene	1253	330	1673	0	74.9	56.8-87.8	0			
Benzo(g,h,i)perylene	1491	330	1673	0	89.1	37.7-113	0			
Benzo(k)fluoranthene	1475	330	1673	0	88.2	57-119	0			
Carbazole	1430	330	1673	0	85.5	28.5-114	0			
Chrysene	1566	330	1673	0	93.6	46.3-104	0			
Dibenzo(a,h)anthracene	1297	330	1673	0	77.6	48.8-123	0			
Fluoranthene	1341	330	1673	0	80.2	52-120	0			
Fluorene	1277	330	1673	0	76.3	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1076	150	1673	0	64.3	56.1-118	0			
Naphthalene	1244	330	1673	0	74.4	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1345	330	1673	0	80.4	46.5-116	0			
Pentachlorophenol	ND	1,700	1673	0	73.4	28.9-156	0			
Phenanthrene	1248	330	1673	0	74.6	52-105	0			
Phenol	1323	330	1673	0	79.1	25.9-90.3	0			
Pyrene	1285	330	1673	0	76.8	51-111	0			
Surr: 2,4,6-Tribromophenol	2260	0	3336	0	67.8	18-115	0			
Surr: 2-Fluorobiphenyl	1237	0	1673	0	73.9	30-116	0			
Surr: 2-Fluorophenol	2378	0	3336	0	71.3	24-105	0			
Surr: 4-Terphenyl-d14	1099	0	1673	0	65.7	40-127	0			
Surr: Nitrobenzene-d5	1383	0	1673	0	82.7	32-106	0			
Surr: Phenol-d5	2540	0	3336	0	76.1	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305699
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17021 Instrument ID: SVMS2 Method: SW8270C

MSD		Sample ID: 1305589-01A MSDD			Units: µg/Kg		Analysis Date: 6/5/2013 08:53 PM			
Client ID:		Run ID: SVMS2_130605B			SeqNo: 621582		Prep Date: 6/5/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1201	330	1672	0	71.8	50.6-92	1207	0.483	18	
1,4-Dichlorobenzene	1363	330	1672	0	81.6	40.1-84.3	1395	2.27	20	
2,4-Dinitrotoluene	1517	330	1672	0	90.8	50.3-127	1471	3.06	20	
2-Chlorophenol	1426	330	1672	0	85.3	33.3-109	1459	2.29	20	
4-Chloro-3-methylphenol	1522	660	1672	0	91.1	35.8-116	1467	3.66	20	
4-Nitrophenol	ND	1,700	1672	0	78.5	38.7-135	1331	0	20	
Acenaphthene	1273	330	1672	0	76.1	54.1-109	1287	1.16	20	
Acenaphthylene	1316	330	1672	0	78.7	55.3-118	1323	0.547	20	
Anthracene	1258	330	1672	0	75.2	51-106	1243	1.19	20	
Benzo(a)anthracene	1234	330	1672	0	73.8	31.6-128	1486	18.6	20	
Benzo(a)pyrene	1438	330	1672	0	86	66.1-109	1359	5.64	20	
Benzo(b)fluoranthene	1232	330	1672	0	73.7	56.8-87.8	1253	1.71	20	
Benzo(g,h,i)perylene	1610	330	1672	0	96.3	37.7-113	1491	7.68	20	
Benzo(k)fluoranthene	1341	330	1672	0	80.2	57-119	1475	9.5	20	
Carbazole	1483	330	1672	0	88.7	28.5-114	1430	3.67	20	
Chrysene	1594	330	1672	0	95.3	46.3-104	1566	1.79	21	
Dibenzo(a,h)anthracene	1514	330	1672	0	90.6	48.8-123	1297	15.4	20	
Fluoranthene	1353	330	1672	0	80.9	52-120	1341	0.875	20	
Fluorene	1313	330	1672	0	78.6	54.8-113	1277	2.82	20	
Indeno(1,2,3-cd)pyrene	1210	150	1672	0	72.4	56.1-118	1076	11.7	20	
Naphthalene	1245	330	1672	0	74.5	51.1-99.3	1244	0.0941	20	
N-Nitrosodi-n-propylamine	1312	330	1672	0	78.5	46.5-116	1345	2.48	17	
Pentachlorophenol	ND	1,700	1672	0	77.5	28.9-156	1227	0	20	
Phenanthrene	1284	330	1672	0	76.8	52-105	1248	2.83	20	
Phenol	1234	330	1672	0	73.8	25.9-90.3	1323	6.96	17	
Pyrene	1323	330	1672	0	79.1	51-111	1285	2.9	20	
Surr: 2,4,6-Tribromophenol	2199	0	3333	0	66	18-115	2260	2.75		
Surr: 2-Fluorobiphenyl	1199	0	1672	0	71.7	30-116	1237	3.11		
Surr: 2-Fluorophenol	2183	0	3333	0	65.5	24-105	2378	8.56		
Surr: 4-Terphenyl-d14	1147	0	1672	0	68.6	40-127	1099	4.27		
Surr: Nitrobenzene-d5	1318	0	1672	0	78.9	32-106	1383	4.79		
Surr: Phenol-d5	2422	0	3333	0	72.7	39-123	2540	4.72		

The following samples were analyzed in this batch:

1305699-03b	1305699-08b	1305699-11b
1305699-17b		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305699
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99562** Instrument ID: **VMS2** Method: **SW8260**

MBLK		Sample ID: MBLK-R99562			Units: µg/Kg		Analysis Date: 6/5/2013 10:02 AM			
Client ID:		Run ID: VMS2_130605A			SeqNo: 620849		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305699
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99562	Instrument ID: VMS2	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	5.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	44.63	0	50	0	89.3	62.7-159	0
<i>Surr: Dibromofluoromethane</i>	47.19	0	50	0	94.4	88.2-133	0
<i>Surr: Toluene-d8</i>	48.84	0	50	0	97.7	81.5-110	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305699
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99562** Instrument ID: **VMS2** Method: **SW8260**

LCS		Sample ID: LCS-R99562			Units: µg/Kg		Analysis Date: 6/5/2013 10:44 AM			
Client ID:		Run ID: VMS2_130605A			SeqNo: 620850		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	40.44	5.0	50	0	80.9	70-132	0			
1,1-Dichloroethene	38.43	5.0	50	0	76.9	61.2-140	0			
1,2-Dichloroethane	42.77	5.0	50	0	85.5	67.3-139	0			
1,3-Dichlorobenzene	39.36	5.0	50	0	78.7	67.5-126	0			
1,4-Dichlorobenzene	39.63	5.0	50	0	79.3	69.5-124	0			
Benzene	39.56	5.0	50	0	79.1	67.2-135	0			
Carbon tetrachloride	39.71	5.0	50	0	79.4	68.6-138	0			
Chlorobenzene	39.38	5.0	50	0	78.8	66.4-133	0			
Chloroform	40.15	5.0	50	0	80.3	68.2-127	0			
cis-1,2-Dichloroethene	42	5.0	50	0	84	62.1-135	0			
Ethylbenzene	40.04	5.0	50	0	80.1	67.8-132	0			
m,p-Xylene	80.01	5.0	100	0	80	66.4-132	0			
Styrene	41.09	5.0	50	0	82.2	67.6-134	0			
Tetrachloroethene	47.05	5.0	50	0	94.1	70.3-144	0			
Toluene	38.88	5.0	50	0	77.8	67.8-130	0			
Trichloroethene	42.75	5.0	50	0	85.5	68.5-136	0			
Surr: 4-Bromofluorobenzene	46.21	0	50	0	92.4	62.7-159	0			
Surr: Dibromofluoromethane	51.85	0	50	0	104	88.2-133	0			
Surr: Toluene-d8	47.51	0	50	0	95	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305699
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99562** Instrument ID: **VMS2** Method: **SW8260**

MS		Sample ID: 1305648-05A MS			Units: µg/Kg		Analysis Date: 6/5/2013 11:47 AM			
Client ID:		Run ID: VMS2_130605A			SeqNo: 620851		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.62	5.0	50	0	97.2	66.9-140	0			
1,1-Dichloroethene	47.19	5.0	50	0	94.4	65.9-143	0			
1,2-Dichloroethane	51.37	5.0	50	0	103	73-135	0			
1,3-Dichlorobenzene	47.44	5.0	50	0	94.9	61.2-125	0			
1,4-Dichlorobenzene	45.31	5.0	50	0	90.6	62.3-123	0			
Benzene	47.87	5.0	50	0	95.7	35.8-162	0			
Carbon tetrachloride	50.21	5.0	50	0	100	71.4-130	0			
Chlorobenzene	47.5	5.0	50	0	95	65.6-137	0			
Chloroform	46.39	5.0	50	0	92.8	69.6-128	0			
cis-1,2-Dichloroethene	46.78	5.0	50	0	93.6	68.8-130	0			
Ethylbenzene	46.65	5.0	50	0	93.3	68.6-124	0			
m,p-Xylene	93.98	5.0	100	0	94	64.5-125	0			
Styrene	48.23	5.0	50	0	96.5	65.9-125	0			
Tetrachloroethene	49.41	5.0	50	0	98.8	71.6-135	0			
Toluene	47.04	5.0	50	0	94.1	67.7-135	0			
Trichloroethene	52	5.0	50	0	104	70.9-139	0			
<i>Surr: 4-Bromofluorobenzene</i>	46.71	0	50	0	93.4	62.7-159	0			
<i>Surr: Dibromofluoromethane</i>	49.68	0	50	0	99.4	88.2-133	0			
<i>Surr: Toluene-d8</i>	50.16	0	50	0	100	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305699
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99562** Instrument ID: **VMS2** Method: **SW8260**

MSD		Sample ID: 1305648-05A MSD			Units: µg/Kg		Analysis Date: 6/5/2013 12:19 PM			
Client ID:		Run ID: VMS2_130605A			SeqNo: 620852		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	52.04	5.0	50	0	104	66.9-140	48.62	6.8	20	
1,1-Dichloroethene	50.52	5.0	50	0	101	65.9-143	47.19	6.82	20	
1,2-Dichloroethane	58.64	5.0	50	0	117	73-135	51.37	13.2	20	
1,3-Dichlorobenzene	49.53	5.0	50	0	99.1	61.2-125	47.44	4.31	21	
1,4-Dichlorobenzene	49.97	5.0	50	0	99.9	62.3-123	45.31	9.78	22.5	
Benzene	52.13	5.0	50	0	104	35.8-162	47.87	8.52	23.6	
Carbon tetrachloride	54.1	5.0	50	0	108	71.4-130	50.21	7.46	22.9	
Chlorobenzene	50.71	5.0	50	0	101	65.6-137	47.5	6.54	20	
Chloroform	49.86	5.0	50	0	99.7	69.6-128	46.39	7.21	23.1	
cis-1,2-Dichloroethene	51.76	5.0	50	0	104	68.8-130	46.78	10.1	23.7	
Ethylbenzene	49.49	5.0	50	0	99	68.6-124	46.65	5.91	24.9	
m,p-Xylene	100.4	5.0	100	0	100	64.5-125	93.98	6.64	25.1	
Styrene	51.34	5.0	50	0	103	65.9-125	48.23	6.25	22.8	
Tetrachloroethene	52.73	5.0	50	0	105	71.6-135	49.41	6.5	24.7	
Toluene	51.94	5.0	50	0	104	67.7-135	47.04	9.9	20	
Trichloroethene	55.77	5.0	50	0	112	70.9-139	52	7	20	
<i>Surr: 4-Bromofluorobenzene</i>	46.22	0	50	0	92.4	62.7-159	46.71	1.05		
<i>Surr: Dibromofluoromethane</i>	51.8	0	50	0	104	88.2-133	49.68	4.18		
<i>Surr: Toluene-d8</i>	50.12	0	50	0	100	81.5-110	50.16	0.0798		

The following samples were analyzed in this batch:

1305699-03A	1305699-08A	1305699-11A
1305699-17A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 20-Jun-13

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305699

Analytical Comments

Method	Type:	SampID	SeqNo	Analysis	Comments
Batch	<u>R99921</u>				
	Analysis	1305699-03C	630775	Herbicides	Analyzed at 10X dilution. Surrogate was diluted out.
	Analysis	1305699-08C	630776	Herbicides	Analyzed at 5X dilution.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
WorkOrder: 1305699

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
% of sample	
µg/Kg	
µg/Kg-dry	
mg/Kg	
mg/Kg-dry	

Sample Receipt Checklist

Client Name: AECOM-CINCINNATI

Date/Time Received: 31-May-13 08:40

Work Order: 1305699

Received by: JNW

Checklist completed by: Chris Gibson 31-May-13
eSignature Date

Reviewed by: Chris Gibson 31-May-13
eSignature Date

Matrices: Soil

Carrier name: Client

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 2.3

Cooler(s)/Kit(s):

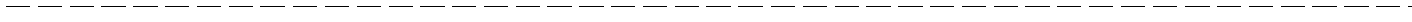
Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:



Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



ALS Laboratory Group
 10450 Stancliff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5656
 Fax. +1 281 530 5887

Chain of Custody Form

ALS Laboratory Group
 3352 128th Ave.
 Holland, MI 49424-9263
 Tel: +1 616 399 6070
 Fax: +1 616 399 6185

Page 1 of 2

1305699

ALS Project Manager: _____ ALS Work Order #: _____

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	PCBs										
Work Order		Project Number	60299534	B	Herbicides										
Company Name	AECOM	Bill To Company	AECOM	C	SVOCs										
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D	Pesticides										
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E	Metals										
				F	VOC										
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G											
Phone	(513) 878-6853	Phone	(513) 878-6844	H											
Fax	(513) 878-6848	Fax	(513) 878-6848	I											
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	S11-0001 01	5-30-13	1140	SOIL	None	1	X										
2	S11-0102 02		1144			1	X										
3	S12-0001 03		1240			8	X	X	X	X	X	X					
4	S12-0102 04		1249			1	X										
5	S14-0001 05		1315			1	X										
6	S14-0102 06		1318			1	X										
7	S15-0001 07		1345			1	X										
8	S15-0102 08		1345			8	X	X	X	X	X	X					
9	S16-0001 09		1410			1	X										
10	S16-0102 10		1415			1	X										

Sampler(s) Please Print & Sign: Burob Engelen Shipment Method: _____ Required Turnaround Time: (Check Box) Std 10 WK Days 5 WK Days Other _____ 2 WK Days 24 Hour Results Due Date: _____

Relinquished by: [Signature] Date: 5-30-13 Time: 1670 Received by: [Signature] Notes: _____

Relinquished by: [Signature] Date: 5-31-13 Time: 0836 Received by (Laboratory): _____ Cooler ID: _____ Cooler Temp: 2-3 QC Package: (Check One Box Below)

Logged by (Laboratory): _____ Date: _____ Time: _____ Checked by (Laboratory): [Signature] 5/31/13 6840 Level II Std QC TRRP CheckList Level III Std QC/Raw Data TRRP Level IV Level IV SW846/CLP Other / EDD

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₈ 6-NaHSO₄ 7-Other 8-4°C 9-5035



ALS Laboratory Group

10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

ALS Laboratory Group

3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

1305699

ALS Project Manager:

ALS Work Order #:

Table with 3 main columns: Customer Information, Project Information, and Parameter/Method Request for Analysis. Includes fields for Purchase Order, Work Order, Company Name, Address, City/State/Zip, Phone, Fax, e-Mail Address, Project Name, Project Number, Bill To Company, Invoice Attn, Address, City/State/Zip, Phone, Fax, e-Mail Address, and analysis parameters A-J.

Main data table with columns: No., Sample Description, Date, Time, Matrix, Pres., # Bottles, and analysis parameters A-J. Contains handwritten entries for 7 samples.

Administrative section including Sampler(s) Please Print & Sign, Shipment Method, Required Turnaround Time (Check Box), Results Due Date, Relinquished by, Received by, Logged by (Laboratory), Checked by (Laboratory), Cooler ID, Cooler Temp., and QC Package options.

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Appendix N

Surface Soil Laboratory Report



30-May-2013

Elaine Nomina
AECOM
4219 Malsbury Road
Cincinnati, OH 45242

Tel: (513) 878-6853
Fax: (513) 878-6848

Re: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: **1305473**

Dear Elaine,

ALS Environmental received 9 samples on 21-May-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 25.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305473

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1305473-01	IA2-S1-000.5	Soil		5/20/2013 09:30	5/21/2013	<input type="checkbox"/>
1305473-02	IA2-S2-000.5	Soil		5/20/2013 09:52	5/21/2013	<input type="checkbox"/>
1305473-02	IA2-S2-000.5	Soil		5/20/2013 09:52	5/21/2013	<input type="checkbox"/>
1305473-03	IA2-S3-000.5	Soil		5/20/2013 10:30	5/21/2013	<input type="checkbox"/>
1305473-03	IA2-S3-000.5	Soil		5/20/2013 10:30	5/21/2013	<input type="checkbox"/>
1305473-04	IA2-S4-000.5	Soil		5/20/2013 10:40	5/21/2013	<input type="checkbox"/>
1305473-04	IA2-S4-000.5	Soil		5/20/2013 10:40	5/21/2013	<input type="checkbox"/>
1305473-05	IA2-S5-000.5	Soil		5/20/2013 11:10	5/21/2013	<input type="checkbox"/>
1305473-05	IA2-S5-000.5	Soil		5/20/2013 11:10	5/21/2013	<input type="checkbox"/>
1305473-06	IA2-S6-000.5	Soil		5/20/2013 11:25	5/21/2013	<input type="checkbox"/>
1305473-06	IA2-S6-000.5	Soil		5/20/2013 11:25	5/21/2013	<input type="checkbox"/>
1305473-07	IA2-S7-000.5	Soil		5/20/2013 11:40	5/21/2013	<input type="checkbox"/>
1305473-07	IA2-S7-000.5	Soil		5/20/2013 11:40	5/21/2013	<input type="checkbox"/>
1305473-08	IA2-S8-000.5	Soil		5/20/2013 12:10	5/21/2013	<input type="checkbox"/>
1305473-08	IA2-S8-000.5	Soil		5/20/2013 12:10	5/21/2013	<input type="checkbox"/>
1305473-09	IA2-S8-B-000.5	Soil		5/20/2013 12:10	5/21/2013	<input type="checkbox"/>
1305473-09	IA2-S8-B-000.5	Soil		5/20/2013 12:10	5/21/2013	<input type="checkbox"/>

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305473

Case Narrative

The analyses requested were analyzed according to Ohio Voluntary Action Program requirements.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: 30-May-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305473

Sample ID: IA2-S1-000.5

Lab ID: 1305473-01

Collection Date: 5/20/2013 09:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	1.9		0.010	% of sample	1	5/22/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.30	mg/Kg-dry	1	5/28/2013 02:00 PM
LEAD BY ICP			SW6010B		Prep Date: 5/22/2013	Analyst: CTS
Lead	9.0		5.0	mg/Kg-dry	1	5/22/2013 06:01 AM

Note:

ALS Environmental

Date: 30-May-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305473

Sample ID: IA2-S2-000.5

Lab ID: 1305473-02

Collection Date: 5/20/2013 09:52 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	5.7		0.010	% of sample	1	5/22/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.32	mg/Kg-dry	1	5/28/2013 02:02 PM
LEAD BY ICP			SW6010B		Prep Date: 5/22/2013	Analyst: CTS
Lead	18		5.2	mg/Kg-dry	1	5/22/2013 06:15 AM

Note:

ALS Environmental

Date: 30-May-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305473

Sample ID: IA2-S3-000.5

Lab ID: 1305473-03

Collection Date: 5/20/2013 10:30 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE Moisture	3.9		SM2540B 0.010	% of sample	Prep Date: 5/22/2013 1	Analyst: KMW 5/22/2013
MERCURY BY CVAA Mercury	ND		SW7471A 0.57	mg/Kg-dry	Prep Date: 5/23/2013 1	Analyst: SLW 5/28/2013 02:04 PM
LEAD BY ICP Lead	9.0		SW6010B 5.1	mg/Kg-dry	Prep Date: 5/22/2013 1	Analyst: CTS 5/22/2013 06:19 AM

Note:

ALS Environmental

Date: 30-May-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305473

Sample ID: IA2-S4-000.5

Lab ID: 1305473-04

Collection Date: 5/20/2013 10:40 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE Moisture	3.6		SM2540B 0.010	% of sample	Prep Date: 5/22/2013 1	Analyst: KMW 5/22/2013
MERCURY BY CVAA Mercury	ND		SW7471A 0.29	mg/Kg-dry	Prep Date: 5/23/2013 1	Analyst: SLW 5/28/2013 02:06 PM
LEAD BY ICP Lead	13		SW6010B 5.2	mg/Kg-dry	Prep Date: 5/22/2013 1	Analyst: CTS 5/22/2013 06:24 AM

Note:

ALS Environmental

Date: 30-May-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305473

Sample ID: IA2-S5-000.5

Lab ID: 1305473-05

Collection Date: 5/20/2013 11:10 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE Moisture	6.2		SM2540B 0.010	% of sample	Prep Date: 5/22/2013 1	Analyst: KMW 5/22/2013
MERCURY BY CVAA Mercury	ND		SW7471A 0.31	mg/Kg-dry	Prep Date: 5/23/2013 1	Analyst: SLW 5/28/2013 02:08 PM
LEAD BY ICP Lead	12		SW6010B 5.2	mg/Kg-dry	Prep Date: 5/22/2013 1	Analyst: CTS 5/22/2013 06:28 AM

Note:

ALS Environmental

Date: 30-May-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305473

Sample ID: IA2-S6-000.5

Lab ID: 1305473-06

Collection Date: 5/20/2013 11:25 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE Moisture	7.5		SM2540B 0.010	% of sample	Prep Date: 5/22/2013 1	Analyst: KMW 5/22/2013
MERCURY BY CVAA Mercury	ND		SW7471A 0.32	mg/Kg-dry	Prep Date: 5/23/2013 1	Analyst: SLW 5/28/2013 02:10 PM
LEAD BY ICP Lead	14		SW6010B 5.3	mg/Kg-dry	Prep Date: 5/22/2013 1	Analyst: CTS 5/22/2013 06:33 AM

Note:

ALS Environmental

Date: 30-May-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305473

Sample ID: IA2-S7-000.5

Lab ID: 1305473-07

Collection Date: 5/20/2013 11:40 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	5.3		0.010	% of sample	1	5/22/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.30	mg/Kg-dry	1	5/28/2013 02:17 PM
LEAD BY ICP			SW6010B		Prep Date: 5/22/2013	Analyst: CTS
Lead	19		5.2	mg/Kg-dry	1	5/22/2013 06:37 AM

Note:

ALS Environmental

Date: 30-May-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305473

Sample ID: IA2-S8-000.5

Lab ID: 1305473-08

Collection Date: 5/20/2013 12:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	5.0		0.010	% of sample	1	5/22/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.32	mg/Kg-dry	1	5/28/2013 02:19 PM
LEAD BY ICP			SW6010B		Prep Date: 5/22/2013	Analyst: CTS
Lead	11		5.2	mg/Kg-dry	1	5/22/2013 06:51 AM

Note:

ALS Environmental

Date: 30-May-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305473

Sample ID: IA2-S8-B-000.5

Lab ID: 1305473-09

Collection Date: 5/20/2013 12:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE Moisture	3.7		SM2540B 0.010	% of sample	Prep Date: 5/22/2013 1	Analyst: KMW 5/22/2013
MERCURY BY CVAA Mercury	ND		SW7471A 0.30	mg/Kg-dry	Prep Date: 5/23/2013 1	Analyst: SLW 5/28/2013 02:21 PM
LEAD BY ICP Lead	10		SW6010B 5.2	mg/Kg-dry	Prep Date: 5/22/2013 1	Analyst: CTS 5/22/2013 06:56 AM

Note:

ALS Environmental

Date: 30-May-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305473

Sample ID: IA2-S1-000.5

Lab ID: 1305473-01

Collection Date: 5/20/2013 09:30 AM

Matrix: SOIL

Analyses	Result	Units	Analytical Results
----------	--------	-------	--------------------

Asbestos by PLM ALS ENV004

Date Analyzed 5/23/2013

Macroscopic Examination

Prep Date: 5/23/2013 ALSENV-004

Analyst: AFS

Color	Brown
Description	Soil
Homogeneity	Heterogenous
Texture	Granular

Other Materials

ALSENV-004

Cellulose	ND	%
Fiberglass	ND	%
Non-Fibrous	>90<=100	%
Other Fibers	ND	%
Resin/Binder	ND	%

Asbestiform Minerals

ALSENV-004

Amosite	ND	%
Anthophyllite	ND	%
Chrysotile	ND	%
Crocidolite	ND	%
Tremolite - Actinolite	ND	%

Total Asbestos	ND	%
-----------------------	-----------	----------

Note:

ALS Environmental

Date: 30-May-13

Client: AECOM**Project:** Whirlpool - Green Springs, OH -SWP; PN 60299534**Work Order:** 1305473**Sample ID:** IA2-S2-000.5**Lab ID:** 1305473-02**Collection Date:** 5/20/2013 09:52 AM**Matrix:** SOIL

Analyses	Result	Units	Analytical Results
----------	--------	-------	--------------------

Asbestos by PLM ALS ENV004

Date Analyzed 5/23/2013

Macroscopic Examination

Prep Date: 5/23/2013 ALSENV-004

Analyst: AFS

Color	Brown	
Description	Soil	
Homogeneity	Heterogenous	
Texture	Granular	

Other Materials

ALSENV-004

Cellulose	ND	%
Fiberglass	ND	%
Non-Fibrous	>90<=100	%
Other Fibers	ND	%
Resin/Binder	ND	%

Asbestiform Minerals

ALSENV-004

Amosite	ND	%
Anthophyllite	ND	%
Chrysotile	ND	%
Crocidolite	ND	%
Tremolite - Actinolite	ND	%

Total Asbestos

ND %

Note:

ALS Environmental

Date: 30-May-13

Client: AECOM**Project:** Whirlpool - Green Springs, OH -SWP; PN 60299534**Work Order:** 1305473**Sample ID:** IA2-S3-000.5**Lab ID:** 1305473-03**Collection Date:** 5/20/2013 10:30 AM**Matrix:** SOIL

Analyses	Result	Units	Analytical Results
----------	--------	-------	--------------------

Asbestos by PLM ALS ENV004

Date Analyzed 5/23/2013

Macroscopic Examination

Prep Date: 5/23/2013 ALSENV-004

Analyst: AFS

Color	Brown	
Description	Soil	
Homogeneity	Heterogenous	
Texture	Granular	

Other Materials

ALSENV-004

Cellulose	ND	%
Fiberglass	ND	%
Non-Fibrous	>90<=100	%
Other Fibers	ND	%
Resin/Binder	ND	%

Asbestiform Minerals

ALSENV-004

Amosite	ND	%
Anthophyllite	ND	%
Chrysotile	ND	%
Crocidolite	ND	%
Tremolite - Actinolite	ND	%

Total Asbestos

ND %

Note:

ALS Environmental

Date: 30-May-13

Client: AECOM**Project:** Whirlpool - Green Springs, OH -SWP; PN 60299534**Work Order:** 1305473**Sample ID:** IA2-S4-000.5**Lab ID:** 1305473-04**Collection Date:** 5/20/2013 10:40 AM**Matrix:** SOIL

Analyses	Result	Units	Analytical Results
----------	--------	-------	--------------------

Asbestos by PLM ALS ENV004

Date Analyzed 5/23/2013

Macroscopic Examination

Prep Date: 5/23/2013 ALSENV-004

Analyst: AFS

Color	Grey	
Description	Soil	
Homogeneity	Heterogenous	
Texture	Granular	

Other Materials

ALSENV-004

Cellulose	ND	%
Fiberglass	ND	%
Non-Fibrous	>90<=100	%
Other Fibers	ND	%
Resin/Binder	ND	%

Asbestiform Minerals

ALSENV-004

Amosite	ND	%
Anthophyllite	ND	%
Chrysotile	ND	%
Crocidolite	ND	%
Tremolite - Actinolite	ND	%

Total Asbestos

ND %

Note:

ALS Environmental

Date: 30-May-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305473

Sample ID: IA2-S5-000.5

Lab ID: 1305473-05

Collection Date: 5/20/2013 11:10 AM

Matrix: SOIL

Analyses	Result	Units	Analytical Results
----------	--------	-------	--------------------

Asbestos by PLM ALS ENV004

Date Analyzed 5/23/2013

Macroscopic Examination

Prep Date: 5/23/2013 ALSENV-004

Analyst: AFS

Color	Brown
Description	Soil
Homogeneity	Heterogenous
Texture	Granular

Other Materials

ALSENV-004

Cellulose	ND	%
Fiberglass	ND	%
Non-Fibrous	>90<=100	%
Other Fibers	ND	%
Resin/Binder	ND	%

Asbestiform Minerals

ALSENV-004

Amosite	ND	%
Anthophyllite	ND	%
Chrysotile	ND	%
Crocidolite	ND	%
Tremolite - Actinolite	ND	%

Total Asbestos	ND	%
-----------------------	-----------	----------

Note:

ALS Environmental

Date: 30-May-13

Client: AECOM**Project:** Whirlpool - Green Springs, OH -SWP; PN 60299534**Work Order:** 1305473**Sample ID:** IA2-S6-000.5**Lab ID:** 1305473-06**Collection Date:** 5/20/2013 11:25 AM**Matrix:** SOIL

Analyses	Result	Units	Analytical Results
----------	--------	-------	--------------------

Asbestos by PLM ALS ENV004

Date Analyzed 5/23/2013

Macroscopic Examination

Prep Date: 5/23/2013 ALSENV-004

Analyst: AFS

Color	Brown	
Description	Soil	
Homogeneity	Heterogenous	
Texture	Granular	

Other Materials

ALSENV-004

Cellulose	ND	%
Fiberglass	ND	%
Non-Fibrous	>90<=100	%
Other Fibers	ND	%
Resin/Binder	ND	%

Asbestiform Minerals

ALSENV-004

Amosite	ND	%
Anthophyllite	ND	%
Chrysotile	ND	%
Crocidolite	ND	%
Tremolite - Actinolite	ND	%

Total Asbestos

ND %

Note:

ALS Environmental

Date: 30-May-13

Client: AECOM**Project:** Whirlpool - Green Springs, OH -SWP; PN 60299534**Work Order:** 1305473**Sample ID:** IA2-S7-000.5**Lab ID:** 1305473-07**Collection Date:** 5/20/2013 11:40 AM**Matrix:** SOIL

Analyses	Result	Units	Analytical Results
----------	--------	-------	--------------------

Asbestos by PLM ALS ENV004

Date Analyzed 5/23/2013

Macroscopic Examination

Prep Date: 5/23/2013 ALSENV-004

Analyst: AFS

Color	Brown	
Description	Soil	
Homogeneity	Heterogenous	
Texture	Granular	

Other Materials

ALSENV-004

Cellulose	ND	%
Fiberglass	ND	%
Non-Fibrous	>90<=100	%
Other Fibers	ND	%
Resin/Binder	ND	%

Asbestiform Minerals

ALSENV-004

Amosite	ND	%
Anthophyllite	ND	%
Chrysotile	Trace	%
Crocidolite	ND	%
Tremolite - Actinolite	ND	%

Total Asbestos**Trace** %**Note:**

ALS Environmental

Date: 30-May-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305473

Sample ID: IA2-S8-000.5

Lab ID: 1305473-08

Collection Date: 5/20/2013 12:10 PM

Matrix: SOIL

Analyses	Result	Units	Analytical Results
----------	--------	-------	--------------------

Asbestos by PLM ALS ENV004

Date Analyzed 5/23/2013

Macroscopic Examination

Prep Date: 5/23/2013 ALSENV-004

Analyst: AFS

Color	Brown
Description	Soil
Homogeneity	Heterogenous
Texture	Granular

Other Materials

ALSENV-004

Cellulose	ND	%
Fiberglass	ND	%
Non-Fibrous	>90<=100	%
Other Fibers	ND	%
Resin/Binder	ND	%

Asbestiform Minerals

ALSENV-004

Amosite	ND	%
Anthophyllite	ND	%
Chrysotile	ND	%
Crocidolite	ND	%
Tremolite - Actinolite	ND	%

Total Asbestos

ND %

Note:

ALS Environmental

Date: 30-May-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305473

Sample ID: IA2-S8-B-000.5

Lab ID: 1305473-09

Collection Date: 5/20/2013 12:10 PM

Matrix: SOIL

Analyses	Result	Units	Analytical Results
----------	--------	-------	--------------------

Asbestos by PLM ALS ENV004

Date Analyzed 5/23/2013

Macroscopic Examination

Prep Date: 5/23/2013 ALSENV-004

Analyst: AFS

Color	Brown
Description	Soil
Homogeneity	Heterogenous
Texture	Granular

Other Materials

ALSENV-004

Cellulose	ND	%
Fiberglass	ND	%
Non-Fibrous	>90<=100	%
Other Fibers	ND	%
Resin/Binder	ND	%

Asbestiform Minerals

ALSENV-004

Amosite	ND	%
Anthophyllite	ND	%
Chrysotile	ND	%
Crocidolite	ND	%
Tremolite - Actinolite	ND	%

Total Asbestos

ND %

Note:

Client: AECOM

QC BATCH REPORT

Work Order: 1305473

Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

Batch ID: **16797** Instrument ID: **HG1** Method: **SW7471A**

MBLK	Sample ID: MBLK-16797-16797			Units: mg/Kg		Analysis Date: 5/28/2013 01:33 PM				
Client ID:	Run ID: HG1_130528A			SeqNo: 615857		Prep Date: 5/23/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.30

LCS	Sample ID: LCS-16797-16797			Units: mg/Kg		Analysis Date: 5/28/2013 01:29 PM				
Client ID:	Run ID: HG1_130528A			SeqNo: 615855		Prep Date: 5/23/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 1.149 0.30 1.109 0 104 69-147 0

LCSD	Sample ID: LCSD-16797-16797			Units: mg/Kg		Analysis Date: 5/28/2013 01:31 PM				
Client ID:	Run ID: HG1_130528A			SeqNo: 615856		Prep Date: 5/23/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 1.168 0.29 1.09 0 107 69-147 1.149 1.64 20

MS	Sample ID: 1305449-01D MS			Units: mg/Kg		Analysis Date: 5/28/2013 01:37 PM				
Client ID:	Run ID: HG1_130528A			SeqNo: 615859		Prep Date: 5/23/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.8443 0.29 0.8007 0.03326 101 69-147 0

MSD	Sample ID: 1305449-01D MSD			Units: mg/Kg		Analysis Date: 5/28/2013 01:39 PM				
Client ID:	Run ID: HG1_130528A			SeqNo: 615860		Prep Date: 5/23/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.8156 0.28 0.7824 0.03326 100 69-147 0.8443 3.46 20

The following samples were analyzed in this batch:

1305473-01B	1305473-02B	1305473-03B
1305473-04B	1305473-05B	1305473-06B
1305473-07B	1305473-08B	1305473-09B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305473
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16777 Instrument ID: ICP2 Method: SW6010B

MBLK		Sample ID: mblk-16777-16777			Units: mg/Kg		Analysis Date: 5/22/2013 05:38 AM			
Client ID:		Run ID: ICP2_130522A			SeqNo: 613788		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	ND	5.0								

LCS		Sample ID: LCS-16777-16777			Units: mg/Kg		Analysis Date: 5/22/2013 05:56 AM			
Client ID:		Run ID: ICP2_130522A			SeqNo: 613790		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	3344	5.0	3248	0	103	70-130	0			

MS		Sample ID: 1305473-01b ms			Units: mg/Kg		Analysis Date: 5/22/2013 06:05 AM			
Client ID: IA2-S1-000.5		Run ID: ICP2_130522A			SeqNo: 613792		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	1031	4.9	988.7	8.849	103	70-130	0			

MSD		Sample ID: 1305473-01b msd			Units: mg/Kg		Analysis Date: 5/22/2013 06:10 AM			
Client ID: IA2-S1-000.5		Run ID: ICP2_130522A			SeqNo: 613793		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	1025	4.9	987.9	8.849	103	70-130	1031	0.656	20	

The following samples were analyzed in this batch:

1305473-01b	1305473-02b	1305473-03b
1305473-04b	1305473-05b	1305473-06b
1305473-07b	1305473-08b	1305473-09b

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
WorkOrder: 1305473

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
%	
% of sample	
mg/Kg-dry	

Sample Receipt Checklist

Client Name: AECOM-CINCINNATI

Date/Time Received: 21-May-13 00:00

Work Order: 1305473

Received by: JNW

Checklist completed by: Chris Gibson 22-May-13
eSignature Date

Reviewed by: Chris Gibson 22-May-13
eSignature Date

Matrices: soil

Carrier name: Client

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 2.0

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



ALS Laboratory Group

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Houston, Texas 77099
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Fax. +1 281 530 5887

Chain of Custody Form

Page 1 of 1

ALS Laboratory Group

3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

1305473

ALS Project Manager: ALS Work Order #:
Customer Information: Purchase Order 46496 ACM, Work Order, Company Name AECOM, Send Report To Elaine Nomina, Address 4219 Malsbury Road, City/State/Zip Cincinnati, OH 45242, Phone (513) 878-6853, Fax (513) 878-6848, e-Mail Address elaine.nomina@aecom.com
Project Information: Project Name Whirlpool- Green Springs, OH- SWP, Project Number 60299534, Bill To Company AECOM, Invoice Attn Ron Roelker, Address 4219 Malsbury Road, City/State/Zip Cincinnati, OH 45242, Phone (513) 878-6844, Fax (513) 878-6848, e-Mail Address ron.roelker@aecom.com
Parameter/Method Request for Analysis: A Asbestos by PLM by ENV. 004, B Asbestos by TEM by Method CARB, C Lead by USEPA SW-846 Method 6020A, D Mercury by USEPA SW-846 Method 7471B

Table with columns: No., Sample Description, Date, Time, Matrix, Pres., # Bottles, A, B, C, D, E, F, G, H, I, J, Hold. Contains 10 rows of sample data including IAA-S1-000.5 through IAA-S8-B-000.5.

Sampler(s) Please Print & Sign: Brian Harootyan, Shipment Method: FedEx, Required Turnaround Time: (Check Box) [] Std 10 WK Days [x] 5 WK Days [] Other 2 WK Days [] 24 Hour, Results Due Date:
Relinquished by: Brian Harootyan, Date: 5-20-13, Time: 13:15, Received by: (Laboratory), Date: , Time: , Checked by: (Laboratory), Date: , Time:
Cooler ID: 5122113, Cooler Temp.: 0800, QC Package: (Check One Box Below) [x] Level II Std QC [] Level III Std QC/Raw Data [] Level IV SW846/CLP [] Other / EDD, [] TRRP CheckList [] TRRP Level IV

Delivery Method: [x] Ice Pack [] None, Cooling Method: [x] Ice Pack [] None, Custody: [x] ALS Courier [] City Dash [] US Mail [] Drop Box, Seals On: [x] Samples [] Other, Temp in Celsius: 2.0



Submitted To: Elaine Nomina
AECOM
4219 Malsbury Road
Cincinnati OH 45242

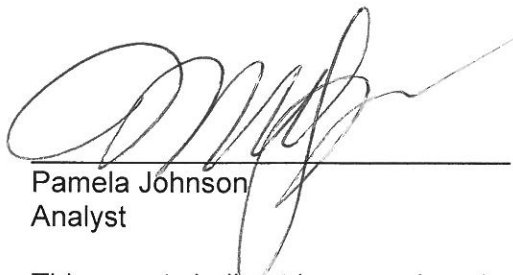
Test Report
Page 1 of 3
5/24/13


REFERENCE DATA

Sample Type:	Soil
Method Reference:	ALS Procedure: ENV-004
Client Sample Nos.:	IA2-S1-000.5 through IA2-S8-B-000.5
Sample Location:	Whirlpool - Green Springs, OH -SWP; PN 60299534
PO No.:	46496 ACM
ALS Work Order No.:	1305473
ALS Sample Nos.:	1305473-01 through 1305473-09
Sample Receipt Date:	5/21/2013
Preparation Date:	5/23/2013
Analysis Date:	5/24/2013

Asbestos in Soil

We certify that the samples indicated on the following data sheet(s) were analyzed by Transmission Electron Microscopy (TEM) using the method ALS Procedure ENV-004, for determining the amount and type of asbestos present in soil. After an initial examination by stereomicroscope and/or polarized light microscopy, representative portions of the samples were ground with a mortar and pestle, suspended in acetone or other solvents, then mounted on a TEM grid for analysis. Analysis was performed on an FEI Tecnai Spirit Twin TEM with EDAX Genesis System. Selected area electron diffraction (SAED) patterns and EDXA spectra were used to determine fiber species. Estimates of asbestos concentration are made on an area basis. Representative EDXA spectra of asbestos types detected are included. Results apply only to portions of samples analyzed and are tabulated on the following data sheet(s). ALS Laboratory Group Environmental Division (Cincinnati) will dispose of samples after 60 days unless other arrangements are made.


Pamela Johnson
Analyst


Shawn Smythe
Project Manager

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CLIENT: AECOM
SAMPLE LOCATION: Whirlpool - Green Springs, OH -SWP; PN 60299534

ANALYSIS DATA

EDXA Resolution: 133.66 eV Magnification: 9,800 X
 Accelerating Voltage: 100 keV Calibration Constant: 1 cm = 1.02 µm

SAMPLE ID

Client Sample No.:	IA2-S1-000.5	IA2-S2-000.5	IA2-S3-000.5	IA2-S4-000.5	IA2-S5-000.5
ALS Sample No.:	1305473-01	1305473-02	1305473-03	1305473-04	1305473-05

MACROSCOPIC EXAMINATION


Accepted/Rejected	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity	Heterog.	Heterog.	Heterog.	Heterog.	Heterog.
Color	Brown	Brown	Brown	Brown	Brown
Texture	Granular	Granular	Granular	Granular	Granular
Description	Soil	Soil	Soil	Soil	Soil

ASBESTIFORM MINERALS

% Chrysotile	ND	ND	ND	ND	ND
% Amosite	ND	ND	ND	ND	ND
% Crocidolite	ND	ND	ND	ND	ND
% Tremolite - Actinolite	ND	ND	ND	ND	ND
% Anthophyllite	ND	ND	ND	ND	ND
% TOTAL ASBESTOS	ND	ND	ND	ND	ND

NOTES: ND = None Detected TRACE = <1%


 Pamela Johnson
 Analyst


 Shawn Smythe
 Project Manager

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CLIENT: AECOM
SAMPLE LOCATION: Whirlpool - Green Springs, OH -SWP; PN 60299534

ANALYSIS DATA

EDXA Resolution: 133.66 eV Magnification: 9,800 X
 Accelerating Voltage: 100 keV Calibration Constant: 1 cm = 1.02 µm

SAMPLE ID

Client Sample No.:	IA2-S6-000.5	IA2-S7-000.5	IA2-S8-000.5	IA2-S8-B-000.5
ALS Sample No.:	1305473-06	1305473-07	1305473-08	1305473-09

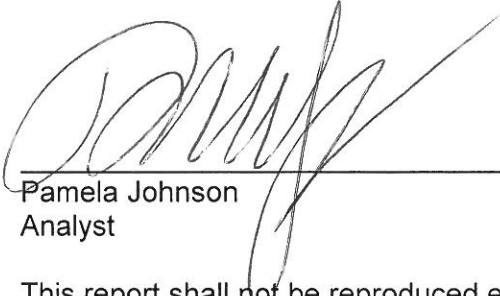
MACROSCOPIC EXAMINATION


Accepted/Rejected	Accepted	Accepted	Accepted	Accepted
Homogeneity	Heterog.	Heterog.	Heterog.	Heterog.
Color	Brown	Brown	Brown	Brown
Texture	Granular	Granular	Granular	Granular
Description	Soil	Soil	Soil	Soil

ASBESTIFORM MINERALS

% Chrysotile	ND	ND	ND	ND
% Amosite	ND	ND	ND	ND
% Crocidolite	ND	ND	ND	ND
% Tremolite - Actinolite	ND	ND	ND	ND
% Anthophyllite	ND	ND	ND	ND
% TOTAL ASBESTOS	ND	ND	ND	ND

NOTES: ND = None Detected TRACE = <1%


 Pamela Johnson
 Analyst


 Shawn Smythe
 Project Manager

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ALS Laboratory Group

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Chain of Custody Form

ALS Laboratory Group

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Tel: +1 616 399 6070
Fax: +1 616 399 6185

Page 1 of 1

1305473

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	Asbestos by PLM by ENVs 004											
Work Order		Project Number	60299534	B	Asbestos by TEM by Method CARB											
Company Name	AECOM	Bill To Company	AECOM	C	Lead by USEPA SW-846 Method 6020A											
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D	Mercury by USEPA SW-846 Method 7471B											
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E												
				F												
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	G												
Phone	(513) 878-6853	Phone	(513) 878-6844	H												
Fax	(513) 878-6848	Fax	(513) 878-6848	I												
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	IA2-S1-000.5	01	5-20-13	09:30	Soil	None	3	X	X	X	X						
2	IA2-S2-000.5	02	5-20-13	09:52	Soil	None	3	X	X	X	X						
3	IA2-S3-000.5	03	5-20-13	10:30	Soil	None	3	X	X	X	X						
4	IA2-S4-000.5	04	5-20-13	10:40	Soil	None	3	X	X	X	X						
5	IA2-S5-000.5	05	5-20-13	11:10	Soil	None	3	X	X	X	X						
6	IA2-S6-000.5	06	5-20-13	11:25	Soil	None	3	X	X	X	X						
7	IA2-S7-000.5	07	5-20-13	11:40	Soil	None	3	X	X	X	X						
8	IA2-S7-Material 1	08	5-20-13	11:40	tile	None	1	X	X								
9	IA2-S8-000.5	08	5-20-13	12:10	Soil	None	3	X	X	X	X						
10	IA2-S8-B-000.5	09	5-20-13	12:10	Soil	None	3	X	X	X	X						

Cooling Method: Ice Pack None
 Custody Seals On: Samples
 Temp in Celsius: 2.0

Delivery Method: Client
 Std US Mail ALS Courier
 City Dash FedEx
 US Mail Drop Box
 Other:

Sampler(s) Please Print & Sign Brian Harootyan <i>Brian Harootyan</i>		Shipment Method FedEx		Required Turnaround Time: (Check Box) <input type="checkbox"/> Std 10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				Results Due Date		
Relinquished by: <i>Brian Harootyan</i>	Date: 5-20-13	Time: 13:15	Received by:		Notes:					
Relinquished by:	Date:	Time:	Received by (Laboratory):		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)			
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory): <i>JLP</i>				<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP CheckList		
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₈ 6-NaHSO ₄ 7-Other 8-4°C 9-5035							<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV		
							<input type="checkbox"/> Level IV SW846/CLP			
							<input type="checkbox"/> Other / EDD			

Appendix O

Test Trench Laboratory Report



20-Jun-2013

Elaine Nomina
AECOM
4219 Malsbury Road
Cincinnati, OH 45242

Tel: (513) 878-6853
Fax: (513) 878-6848

Re: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: **1305701**

Dear Elaine,

ALS Environmental received 8 samples on 31-May-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 88.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305701

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1305701-01	TT-6-53013	Soil		5/30/2013 10:50	5/31/2013	<input type="checkbox"/>
1305701-02	TT-5-53013	Soil		5/30/2013 12:20	5/31/2013	<input type="checkbox"/>
1305701-02	TT-5-53013	Soil		5/30/2013 12:20	5/31/2013	<input type="checkbox"/>
1305701-03	TT-7-53013	Soil		5/30/2013 14:50	5/31/2013	<input type="checkbox"/>
1305701-03	TT-7-53013	Soil		5/30/2013 14:50	5/31/2013	<input type="checkbox"/>
1305701-04	TT-1-53013	Soil		5/30/2013 15:20	5/31/2013	<input type="checkbox"/>
1305701-04	TT-1-53013	Soil		5/30/2013 15:20	5/31/2013	<input type="checkbox"/>
1305701-05	TT-2-53013	Soil		5/30/2013 15:50	5/31/2013	<input type="checkbox"/>
1305701-05	TT-2-53013	Soil		5/30/2013 15:50	5/31/2013	<input type="checkbox"/>
1305701-06	TT-3-53013	Soil		5/30/2013 16:05	5/31/2013	<input type="checkbox"/>
1305701-06	TT-3-53013	Soil		5/30/2013 16:05	5/31/2013	<input type="checkbox"/>
1305701-07	TT-4-53013	Soil		5/30/2013 16:10	5/31/2013	<input type="checkbox"/>
1305701-07	TT-4-53013	Soil		5/30/2013 16:10	5/31/2013	<input type="checkbox"/>
1305701-08	TT-9-53013	Soil		5/30/2013 18:15	5/31/2013	<input type="checkbox"/>
1305701-08	TT-9-53013	Soil		5/30/2013 18:15	5/31/2013	<input type="checkbox"/>

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305701

Case Narrative

The analyses requested were analyzed according to Ohio Voluntary Action Program requirements.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The pesticides and herbicides analysis was performed by Microbac Laboratories, Marietta, OH.

All soils are reported as dry weight corrected.

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-6-53013

Lab ID: 1305701-01

Collection Date: 5/30/2013 10:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/10/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/12/2013
Aroclor 1221	ND		0.25	mg/Kg-dry	1	6/12/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/12/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/12/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/12/2013
Aroclor 1254	ND		0.13	mg/Kg-dry	1	6/12/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/12/2013
Surr: Decachlorobiphenyl	76.2		22-156	%REC	1	6/12/2013
Surr: Tetrachloro-m-xylene	93.2		34-145	%REC	1	6/12/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	22		0.010	% of sample	1	6/3/2013
MERCURY BY CVAA			SW7471A		Prep Date: 6/1/2013	Analyst: SLW
Mercury	ND		0.37	mg/Kg-dry	1	6/3/2013 06:38 PM
METALS BY ICP			SW6010B		Prep Date: 6/3/2013	Analyst: VAW
Aluminum	7,500		640	mg/Kg-dry	1	6/3/2013 07:12 PM
Antimony	ND		3.8	mg/Kg-dry	1	6/3/2013 07:12 PM
Arsenic	ND		6.4	mg/Kg-dry	1	6/3/2013 07:12 PM
Barium	28		13	mg/Kg-dry	1	6/3/2013 07:12 PM
Beryllium	0.43		0.026	mg/Kg-dry	1	6/3/2013 07:12 PM
Cadmium	ND		1.3	mg/Kg-dry	1	6/3/2013 07:12 PM
Calcium	16,000		640	mg/Kg-dry	1	6/3/2013 07:12 PM
Chromium	12		2.6	mg/Kg-dry	1	6/3/2013 07:12 PM
Cobalt	ND		6.4	mg/Kg-dry	1	6/3/2013 07:12 PM
Copper	28		6.4	mg/Kg-dry	1	6/3/2013 07:12 PM
Iron	14,000		130	mg/Kg-dry	1	6/3/2013 07:12 PM
Lead	15		6.4	mg/Kg-dry	1	6/3/2013 07:12 PM
Magnesium	3,400		130	mg/Kg-dry	1	6/3/2013 07:12 PM
Manganese	130		6.4	mg/Kg-dry	1	6/3/2013 07:12 PM
Nickel	16		6.4	mg/Kg-dry	1	6/3/2013 07:12 PM
Potassium	1,400		640	mg/Kg-dry	1	6/3/2013 07:12 PM
Selenium	ND		3.8	mg/Kg-dry	1	6/3/2013 07:12 PM
Silver	ND		1.3	mg/Kg-dry	1	6/3/2013 07:12 PM
Sodium	ND		640	mg/Kg-dry	1	6/3/2013 07:12 PM
Thallium	ND		3.8	mg/Kg-dry	1	6/3/2013 07:12 PM
Vanadium	15		6.4	mg/Kg-dry	1	6/3/2013 07:12 PM
Zinc	55		6.4	mg/Kg-dry	1	6/3/2013 07:12 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/5/2013	Analyst: Microb

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-6-53013

Lab ID: 1305701-01

Collection Date: 5/30/2013 10:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		2.0	µg/Kg	1	6/17/2013 04:24 PM
4,4'-DDE	ND		2.0	µg/Kg	1	6/17/2013 04:24 PM
4,4'-DDT	ND		2.0	µg/Kg	1	6/17/2013 04:24 PM
Aldrin	ND		2.0	µg/Kg	1	6/17/2013 04:24 PM
alpha-BHC	ND		2.0	µg/Kg	1	6/17/2013 04:24 PM
alpha-Chlordane	ND		2.0	µg/Kg	1	6/17/2013 04:24 PM
beta-BHC	ND		2.0	µg/Kg	1	6/17/2013 04:24 PM
delta-BHC	ND		2.0	µg/Kg	1	6/17/2013 04:24 PM
Dieldrin	ND		2.0	µg/Kg	1	6/17/2013 04:24 PM
Endosulfan I	ND		2.0	µg/Kg	1	6/17/2013 04:24 PM
Endosulfan II	ND		2.0	µg/Kg	1	6/17/2013 04:24 PM
Endosulfan sulfate	ND		2.0	µg/Kg	1	6/17/2013 04:24 PM
Endrin	ND		2.0	µg/Kg	1	6/17/2013 04:24 PM
Endrin aldehyde	ND		2.0	µg/Kg	1	6/17/2013 04:24 PM
Endrin ketone	ND		2.0	µg/Kg	1	6/17/2013 04:24 PM
gamma-BHC (Lindane)	ND		2.0	µg/Kg	1	6/17/2013 04:24 PM
gamma-Chlordane	ND		2.0	µg/Kg	1	6/17/2013 04:24 PM
Heptachlor	ND		2.0	µg/Kg	1	6/17/2013 04:24 PM
Heptachlor epoxide	ND		2.0	µg/Kg	1	6/17/2013 04:24 PM
Methoxychlor	ND		2.0	µg/Kg	1	6/17/2013 04:24 PM
Toxaphene	ND		41	µg/Kg	1	6/17/2013 04:24 PM
<i>Surr: Decachlorobiphenyl</i>	35.4		33-143	%REC	1	6/17/2013 04:24 PM
<i>Surr: Tetrachloro-m-xylene</i>	48.6		39-130	%REC	1	6/17/2013 04:24 PM

HERBICIDES

SW8151

Prep Date: 6/5/2013

Analyst: Microb

2,4,5-T	ND		0.0054	mg/Kg	1	6/11/2013 01:17 AM
2,4,5-TP (Silvex)	ND		0.0041	mg/Kg	1	6/11/2013 01:17 AM
2,4-D	ND		0.054	mg/Kg	1	6/11/2013 01:17 AM
2,4-DB	ND		0.054	mg/Kg	1	6/11/2013 01:17 AM
Dalapon	ND		0.14	mg/Kg	1	6/11/2013 01:17 AM
Dicamba	ND		0.0054	mg/Kg	1	6/11/2013 01:17 AM
Dichlorprop	ND		0.054	mg/Kg	1	6/11/2013 01:17 AM
Dinoseb	ND		0.027	mg/Kg	1	6/11/2013 01:17 AM
MCPA	ND		5.4	mg/Kg	1	6/11/2013 01:17 AM
MCPP	ND		5.4	mg/Kg	1	6/11/2013 01:17 AM
Pentachlorophenol	ND		0.0054	mg/Kg	1	6/11/2013 01:17 AM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	111	S	25-110	%REC	1	6/11/2013 01:17 AM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 6/7/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
1,2,4-Trichlorobenzene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-6-53013

Lab ID: 1305701-01

Collection Date: 5/30/2013 10:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
1,3-Dichlorobenzene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
1,3-Dinitrobenzene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
1,4-Dichlorobenzene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
1-Methylnaphthalene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
1-Naphthylamine	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
2,3,4,6-Tetrachlorophenol	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
2,4,5-Trichlorophenol	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
2,4,6-Trichlorophenol	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
2,4-Dichlorophenol	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
2,4-Dimethylphenol	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
2,4-Dinitrophenol	ND		2,100	µg/Kg-dry	1	6/10/2013 10:27 PM
2,4-Dinitrotoluene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
2,6-Dichlorophenol	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
2,6-Dinitrotoluene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
2-Acetylaminofluorene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
2-Chloronaphthalene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
2-Chlorophenol	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
2-Methylnaphthalene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
2-Methylphenol	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
2-Naphthylamine	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
2-Nitroaniline	ND		2,100	µg/Kg-dry	1	6/10/2013 10:27 PM
2-Nitrophenol	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
2-Picoline	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
3&4-Methylphenol	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
3,3'-Dichlorobenzidine	ND		850	µg/Kg-dry	1	6/10/2013 10:27 PM
3-Methylcholanthrene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
3-Nitroaniline	ND		2,100	µg/Kg-dry	1	6/10/2013 10:27 PM
4,6-Dinitro-2-methylphenol	ND		2,100	µg/Kg-dry	1	6/10/2013 10:27 PM
4-Aminobiphenyl	ND		850	µg/Kg-dry	1	6/10/2013 10:27 PM
4-Bromophenyl phenyl ether	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
4-Chloro-3-methylphenol	ND		850	µg/Kg-dry	1	6/10/2013 10:27 PM
4-Chloroaniline	ND		850	µg/Kg-dry	1	6/10/2013 10:27 PM
4-Chlorophenyl phenyl ether	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
4-Nitroaniline	ND		850	µg/Kg-dry	1	6/10/2013 10:27 PM
4-Nitrophenol	ND		2,100	µg/Kg-dry	1	6/10/2013 10:27 PM
4-Nitroquinoline 1-oxide	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
5-Nitro-o-toluidine	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
7,12-Dimethylbenz(a)anthracene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Acenaphthene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-6-53013

Lab ID: 1305701-01

Collection Date: 5/30/2013 10:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Acetophenone	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Aniline	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Anthracene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Azobenzene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Benzidine	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Benzo(a)anthracene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Benzo(a)pyrene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Benzo(b)fluoranthene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Benzo(g,h,i)perylene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Benzo(k)fluoranthene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Benzyl alcohol	ND		850	µg/Kg-dry	1	6/10/2013 10:27 PM
Bis(2-chloroethoxy)methane	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Bis(2-chloroethyl)ether	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Bis(2-chloroisopropyl)ether	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Bis(2-ethylhexyl)phthalate	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Butyl benzyl phthalate	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Carbazole	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Chrysene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Dibenzo(a,h)anthracene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Dibenzofuran	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Diethyl phthalate	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Dimethyl phthalate	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Di-n-butyl phthalate	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Di-n-octyl phthalate	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Dinoseb	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Diphenylamine	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Ethyl methanesulfonate	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Fluoranthene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Fluorene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Hexachlorobenzene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Hexachlorobutadiene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Hexachlorocyclopentadiene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Hexachloroethane	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Indeno(1,2,3-cd)pyrene	ND		190	µg/Kg-dry	1	6/10/2013 10:27 PM
Isophorone	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Isosafrole	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Methapyrilene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Methyl methanesulfonate	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Naphthalene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-6-53013

Lab ID: 1305701-01

Collection Date: 5/30/2013 10:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
N-Nitrosodiethylamine	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
N-Nitrosodimethylamine	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
N-Nitroso-di-n-butylamine	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
N-Nitrosodi-n-propylamine	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
N-Nitrosomethylethylamine	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
N-Nitrosomorpholine	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
N-Nitrosopiperidine	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
N-Nitrosopyrrolidine	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
o-Toluidine	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
p-Dimethylaminoazobenzene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Pentachlorobenzene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Pentachloroethane	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Pentachloronitrobenzene	ND		850	µg/Kg-dry	1	6/10/2013 10:27 PM
Pentachlorophenol	ND		2,100	µg/Kg-dry	1	6/10/2013 10:27 PM
Phenacetin	ND		850	µg/Kg-dry	1	6/10/2013 10:27 PM
Phenanthrene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Phenol	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Pyrene	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Pyridine	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
Safrole	ND		420	µg/Kg-dry	1	6/10/2013 10:27 PM
<i>Surr: 2,4,6-Tribromophenol</i>	<i>87.2</i>		<i>18-115</i>	<i>%REC</i>	<i>1</i>	<i>6/10/2013 10:27 PM</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>72.0</i>		<i>30-116</i>	<i>%REC</i>	<i>1</i>	<i>6/10/2013 10:27 PM</i>
<i>Surr: 2-Fluorophenol</i>	<i>60.1</i>		<i>24-105</i>	<i>%REC</i>	<i>1</i>	<i>6/10/2013 10:27 PM</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>73.0</i>		<i>40-127</i>	<i>%REC</i>	<i>1</i>	<i>6/10/2013 10:27 PM</i>
<i>Surr: Nitrobenzene-d5</i>	<i>75.3</i>		<i>32-106</i>	<i>%REC</i>	<i>1</i>	<i>6/10/2013 10:27 PM</i>
<i>Surr: Phenol-d5</i>	<i>71.6</i>		<i>39-123</i>	<i>%REC</i>	<i>1</i>	<i>6/10/2013 10:27 PM</i>

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 6/5/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
1,1,1-Trichloroethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
1,1,2,2-Tetrachloroethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
1,1,2-Trichloroethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
1,1-Dichloroethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
1,1-Dichloroethene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
1,1-Dichloropropene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
1,2,3-Trichlorobenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
1,2,3-Trichloropropane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
1,2,4-Trichlorobenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
1,2,4-Trimethylbenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
1,2-Dibromo-3-chloropropane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-6-53013

Lab ID: 1305701-01

Collection Date: 5/30/2013 10:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
1,2-Dichlorobenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
1,2-Dichloroethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
1,2-Dichloropropane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
1,3,5-Trimethylbenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
1,3-Dichlorobenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
1,3-Dichloropropane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
1,4-Dichlorobenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
2,2-Dichloropropane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
2-Butanone	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
2-Chlorotoluene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
2-Hexanone	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
4-Chlorotoluene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
4-Methyl-2-pentanone	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Acetone	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Benzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Bromobenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Bromochloromethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Bromodichloromethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Bromoform	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Bromomethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Carbon disulfide	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Carbon tetrachloride	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Chlorobenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Chloroethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Chloroform	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Chloromethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
cis-1,2-Dichloroethene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
cis-1,3-Dichloropropene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Dibromochloromethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Dibromomethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Dichlorodifluoromethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Ethylbenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Hexachlorobutadiene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Isopropylbenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
m,p-Xylene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Methyl tert-butyl ether	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Methylene chloride	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Naphthalene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
n-Butylbenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-6-53013

Lab ID: 1305701-01

Collection Date: 5/30/2013 10:50 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
o-Xylene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
p-Isopropyltoluene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
sec-Butylbenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Styrene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
tert-Butylbenzene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Tetrachloroethene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Toluene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
trans-1,2-Dichloroethene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
trans-1,3-Dichloropropene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Trichloroethene	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Trichlorofluoromethane	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Vinyl chloride	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Xylenes, Total	ND		5.4	µg/Kg-dry	1	6/5/2013 06:39 PM
Surr: 4-Bromofluorobenzene	99.0		62.7-159	%REC	1	6/5/2013 06:39 PM
Surr: Dibromofluoromethane	108		88.2-133	%REC	1	6/5/2013 06:39 PM
Surr: Toluene-d8	97.1		81.5-110	%REC	1	6/5/2013 06:39 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-5-53013

Lab ID: 1305701-02

Collection Date: 5/30/2013 12:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/10/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/12/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/12/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/12/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/12/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/12/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/12/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/12/2013
Surr: Decachlorobiphenyl	81.6		22-156	%REC	1	6/12/2013
Surr: Tetrachloro-m-xylene	99.6		34-145	%REC	1	6/12/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	15		0.010	% of sample	1	6/3/2013
MERCURY BY CVAA			SW7471A		Prep Date: 6/1/2013	Analyst: SLW
Mercury	ND		0.35	mg/Kg-dry	1	6/3/2013 06:40 PM
METALS BY ICP			SW6010B		Prep Date: 6/3/2013	Analyst: VAW
Aluminum	8,300		580	mg/Kg-dry	1	6/3/2013 07:18 PM
Antimony	5.3		3.5	mg/Kg-dry	1	6/3/2013 07:18 PM
Arsenic	9.6		5.8	mg/Kg-dry	1	6/3/2013 07:18 PM
Barium	55		12	mg/Kg-dry	1	6/3/2013 07:18 PM
Beryllium	0.47		0.023	mg/Kg-dry	1	6/3/2013 07:18 PM
Cadmium	ND		1.2	mg/Kg-dry	1	6/3/2013 07:18 PM
Calcium	53,000		580	mg/Kg-dry	1	6/3/2013 07:18 PM
Chromium	15		2.3	mg/Kg-dry	1	6/3/2013 07:18 PM
Cobalt	12		5.8	mg/Kg-dry	1	6/3/2013 07:18 PM
Copper	22		5.8	mg/Kg-dry	1	6/3/2013 07:18 PM
Iron	22,000		120	mg/Kg-dry	1	6/3/2013 07:18 PM
Lead	28		5.8	mg/Kg-dry	1	6/3/2013 07:18 PM
Magnesium	9,200		120	mg/Kg-dry	1	6/3/2013 07:18 PM
Manganese	540		5.8	mg/Kg-dry	1	6/3/2013 07:18 PM
Nickel	28		5.8	mg/Kg-dry	1	6/3/2013 07:18 PM
Potassium	1,500		580	mg/Kg-dry	1	6/3/2013 07:18 PM
Selenium	ND		3.5	mg/Kg-dry	1	6/3/2013 07:18 PM
Silver	ND		1.2	mg/Kg-dry	1	6/3/2013 07:18 PM
Sodium	ND		580	mg/Kg-dry	1	6/3/2013 07:18 PM
Thallium	ND		3.5	mg/Kg-dry	1	6/3/2013 07:18 PM
Vanadium	18		5.8	mg/Kg-dry	1	6/3/2013 07:18 PM
Zinc	79		5.8	mg/Kg-dry	1	6/3/2013 07:18 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/5/2013	Analyst: Microb

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-5-53013

Lab ID: 1305701-02

Collection Date: 5/30/2013 12:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		2.0	µg/Kg	1	6/17/2013 04:51 PM
4,4'-DDE	2.9		2.0	µg/Kg	1	6/17/2013 04:51 PM
4,4'-DDT	ND		2.0	µg/Kg	1	6/17/2013 04:51 PM
Aldrin	ND		2.0	µg/Kg	1	6/17/2013 04:51 PM
alpha-BHC	ND		2.0	µg/Kg	1	6/17/2013 04:51 PM
alpha-Chlordane	ND		2.0	µg/Kg	1	6/17/2013 04:51 PM
beta-BHC	ND		2.0	µg/Kg	1	6/17/2013 04:51 PM
delta-BHC	ND		2.0	µg/Kg	1	6/17/2013 04:51 PM
Dieldrin	ND		2.0	µg/Kg	1	6/17/2013 04:51 PM
Endosulfan I	ND		2.0	µg/Kg	1	6/17/2013 04:51 PM
Endosulfan II	ND		2.0	µg/Kg	1	6/17/2013 04:51 PM
Endosulfan sulfate	ND		2.0	µg/Kg	1	6/17/2013 04:51 PM
Endrin	ND		2.0	µg/Kg	1	6/17/2013 04:51 PM
Endrin aldehyde	ND		2.0	µg/Kg	1	6/17/2013 04:51 PM
Endrin ketone	ND		2.0	µg/Kg	1	6/17/2013 04:51 PM
gamma-BHC (Lindane)	ND		2.0	µg/Kg	1	6/17/2013 04:51 PM
gamma-Chlordane	ND		2.0	µg/Kg	1	6/17/2013 04:51 PM
Heptachlor	ND		2.0	µg/Kg	1	6/17/2013 04:51 PM
Heptachlor epoxide	ND		2.0	µg/Kg	1	6/17/2013 04:51 PM
Methoxychlor	ND		2.0	µg/Kg	1	6/17/2013 04:51 PM
Toxaphene	ND		39	µg/Kg	1	6/17/2013 04:51 PM
<i>Surr: Decachlorobiphenyl</i>	40.6		33-143	%REC	1	6/17/2013 04:51 PM
<i>Surr: Tetrachloro-m-xylene</i>	48.3		39-130	%REC	1	6/17/2013 04:51 PM

HERBICIDES

SW8151

Prep Date: 6/5/2013

Analyst: Microb

2,4,5-T	ND		0.0047	mg/Kg	1	6/11/2013 01:43 AM
2,4,5-TP (Silvex)	ND		0.0035	mg/Kg	1	6/11/2013 01:43 AM
2,4-D	ND		0.047	mg/Kg	1	6/11/2013 01:43 AM
2,4-DB	ND		0.047	mg/Kg	1	6/11/2013 01:43 AM
Dalapon	ND		0.12	mg/Kg	1	6/11/2013 01:43 AM
Dicamba	ND		0.0047	mg/Kg	1	6/11/2013 01:43 AM
Dichlorprop	ND		0.047	mg/Kg	1	6/11/2013 01:43 AM
Dinoseb	ND		0.023	mg/Kg	1	6/11/2013 01:43 AM
MCPA	ND		4.7	mg/Kg	1	6/11/2013 01:43 AM
MCPP	ND		4.7	mg/Kg	1	6/11/2013 01:43 AM
Pentachlorophenol	ND		0.0047	mg/Kg	1	6/11/2013 01:43 AM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	71.6		25-110	%REC	1	6/11/2013 01:43 AM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 6/7/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
1,2,4-Trichlorobenzene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-5-53013

Lab ID: 1305701-02

Collection Date: 5/30/2013 12:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
1,3-Dichlorobenzene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
1,3-Dinitrobenzene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
1,4-Dichlorobenzene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
1-Methylnaphthalene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
1-Naphthylamine	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
2,3,4,6-Tetrachlorophenol	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
2,4,5-Trichlorophenol	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
2,4,6-Trichlorophenol	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
2,4-Dichlorophenol	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
2,4-Dimethylphenol	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	6/10/2013 11:01 PM
2,4-Dinitrotoluene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
2,6-Dichlorophenol	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
2,6-Dinitrotoluene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
2-Acetylaminofluorene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
2-Chloronaphthalene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
2-Chlorophenol	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
2-Methylnaphthalene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
2-Methylphenol	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
2-Naphthylamine	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	6/10/2013 11:01 PM
2-Nitrophenol	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
2-Picoline	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
3&4-Methylphenol	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
3,3'-Dichlorobenzidine	ND		780	µg/Kg-dry	1	6/10/2013 11:01 PM
3-Methylcholanthrene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	6/10/2013 11:01 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	6/10/2013 11:01 PM
4-Aminobiphenyl	ND		780	µg/Kg-dry	1	6/10/2013 11:01 PM
4-Bromophenyl phenyl ether	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
4-Chloro-3-methylphenol	ND		780	µg/Kg-dry	1	6/10/2013 11:01 PM
4-Chloroaniline	ND		780	µg/Kg-dry	1	6/10/2013 11:01 PM
4-Chlorophenyl phenyl ether	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
4-Nitroaniline	ND		780	µg/Kg-dry	1	6/10/2013 11:01 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	6/10/2013 11:01 PM
4-Nitroquinoline 1-oxide	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
5-Nitro-o-toluidine	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
7,12-Dimethylbenz(a)anthracene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Acenaphthene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-5-53013

Lab ID: 1305701-02

Collection Date: 5/30/2013 12:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Acetophenone	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Aniline	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Anthracene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Azobenzene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Benzidine	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Benzo(a)anthracene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Benzo(a)pyrene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Benzo(b)fluoranthene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Benzo(g,h,i)perylene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Benzo(k)fluoranthene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Benzyl alcohol	ND		780	µg/Kg-dry	1	6/10/2013 11:01 PM
Bis(2-chloroethoxy)methane	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Bis(2-chloroethyl)ether	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Bis(2-chloroisopropyl)ether	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Bis(2-ethylhexyl)phthalate	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Butyl benzyl phthalate	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Carbazole	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Chrysene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Dibenzo(a,h)anthracene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Dibenzofuran	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Diethyl phthalate	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Dimethyl phthalate	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Di-n-butyl phthalate	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Di-n-octyl phthalate	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Dinoseb	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Diphenylamine	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Ethyl methanesulfonate	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Fluoranthene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Fluorene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Hexachlorobenzene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Hexachlorobutadiene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Hexachlorocyclopentadiene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Hexachloroethane	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Indeno(1,2,3-cd)pyrene	ND		180	µg/Kg-dry	1	6/10/2013 11:01 PM
Isophorone	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Isosafrole	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Methapyrilene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Methyl methanesulfonate	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Naphthalene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-5-53013

Lab ID: 1305701-02

Collection Date: 5/30/2013 12:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
N-Nitrosodiethylamine	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
N-Nitrosodimethylamine	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
N-Nitroso-di-n-butylamine	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
N-Nitrosodi-n-propylamine	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
N-Nitrosomethylethylamine	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
N-Nitrosomorpholine	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
N-Nitrosopiperidine	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
N-Nitrosopyrrolidine	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
o-Toluidine	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
p-Dimethylaminoazobenzene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Pentachlorobenzene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Pentachloroethane	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Pentachloronitrobenzene	ND		780	µg/Kg-dry	1	6/10/2013 11:01 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	6/10/2013 11:01 PM
Phenacetin	ND		780	µg/Kg-dry	1	6/10/2013 11:01 PM
Phenanthrene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Phenol	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Pyrene	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Pyridine	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
Safrole	ND		390	µg/Kg-dry	1	6/10/2013 11:01 PM
<i>Surr: 2,4,6-Tribromophenol</i>	<i>87.1</i>		<i>18-115</i>	<i>%REC</i>	1	6/10/2013 11:01 PM
<i>Surr: 2-Fluorobiphenyl</i>	<i>76.2</i>		<i>30-116</i>	<i>%REC</i>	1	6/10/2013 11:01 PM
<i>Surr: 2-Fluorophenol</i>	<i>55.8</i>		<i>24-105</i>	<i>%REC</i>	1	6/10/2013 11:01 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>75.1</i>		<i>40-127</i>	<i>%REC</i>	1	6/10/2013 11:01 PM
<i>Surr: Nitrobenzene-d5</i>	<i>77.9</i>		<i>32-106</i>	<i>%REC</i>	1	6/10/2013 11:01 PM
<i>Surr: Phenol-d5</i>	<i>73.0</i>		<i>39-123</i>	<i>%REC</i>	1	6/10/2013 11:01 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 6/6/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
1,1,1-Trichloroethane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
1,1,2,2-Tetrachloroethane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
1,1,2-Trichloroethane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
1,1-Dichloroethane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
1,1-Dichloroethene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
1,1-Dichloropropene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
1,2,3-Trichlorobenzene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
1,2,3-Trichloropropane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
1,2,4-Trichlorobenzene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
1,2,4-Trimethylbenzene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
1,2-Dibromo-3-chloropropane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-5-53013

Lab ID: 1305701-02

Collection Date: 5/30/2013 12:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
1,2-Dichlorobenzene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
1,2-Dichloroethane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
1,2-Dichloropropane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
1,3,5-Trimethylbenzene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
1,3-Dichlorobenzene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
1,3-Dichloropropane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
1,4-Dichlorobenzene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
2,2-Dichloropropane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
2-Butanone	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
2-Chlorotoluene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
2-Hexanone	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
4-Chlorotoluene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
4-Methyl-2-pentanone	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Acetone	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Benzene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Bromobenzene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Bromochloromethane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Bromodichloromethane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Bromoform	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Bromomethane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Carbon disulfide	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Carbon tetrachloride	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Chlorobenzene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Chloroethane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Chloroform	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Chloromethane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
cis-1,2-Dichloroethene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
cis-1,3-Dichloropropene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Dibromochloromethane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Dibromomethane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Dichlorodifluoromethane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Ethylbenzene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Hexachlorobutadiene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Isopropylbenzene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
m,p-Xylene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Methyl tert-butyl ether	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Methylene chloride	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Naphthalene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
n-Butylbenzene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-5-53013

Lab ID: 1305701-02

Collection Date: 5/30/2013 12:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
o-Xylene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
p-Isopropyltoluene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
sec-Butylbenzene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Styrene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
tert-Butylbenzene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Tetrachloroethene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Toluene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
trans-1,2-Dichloroethene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
trans-1,3-Dichloropropene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Trichloroethene	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Trichlorofluoromethane	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Vinyl chloride	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Xylenes, Total	ND		4.9	µg/Kg-dry	1	6/6/2013 01:26 PM
Surr: 4-Bromofluorobenzene	89.8		62.7-159	%REC	1	6/6/2013 01:26 PM
Surr: Dibromofluoromethane	92.3		88.2-133	%REC	1	6/6/2013 01:26 PM
Surr: Toluene-d8	95.0		81.5-110	%REC	1	6/6/2013 01:26 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-7-53013

Lab ID: 1305701-03

Collection Date: 5/30/2013 02:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/10/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	6/12/2013
Aroclor 1221	ND		0.26	mg/Kg-dry	1	6/12/2013
Aroclor 1232	ND		0.13	mg/Kg-dry	1	6/12/2013
Aroclor 1242	ND		0.13	mg/Kg-dry	1	6/12/2013
Aroclor 1248	ND		0.13	mg/Kg-dry	1	6/12/2013
Aroclor 1254	0.24		0.13	mg/Kg-dry	1	6/12/2013
Aroclor 1260	ND		0.13	mg/Kg-dry	1	6/12/2013
Surr: Decachlorobiphenyl	82.4		22-156	%REC	1	6/12/2013
Surr: Tetrachloro-m-xylene	99.4		34-145	%REC	1	6/12/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	23		0.010	% of sample	1	6/3/2013
MERCURY BY CVAA			SW7471A		Prep Date: 6/1/2013	Analyst: SLW
Mercury	ND		0.39	mg/Kg-dry	1	6/3/2013 06:42 PM
METALS BY ICP			SW6010B		Prep Date: 6/3/2013	Analyst: VAW
Aluminum	9,600		640	mg/Kg-dry	1	6/3/2013 07:49 PM
Antimony	ND		3.8	mg/Kg-dry	1	6/3/2013 07:49 PM
Arsenic	10		6.4	mg/Kg-dry	1	6/3/2013 07:49 PM
Barium	57		13	mg/Kg-dry	1	6/3/2013 07:49 PM
Beryllium	0.54		0.025	mg/Kg-dry	1	6/3/2013 07:49 PM
Cadmium	ND		1.3	mg/Kg-dry	1	6/3/2013 07:49 PM
Calcium	26,000		640	mg/Kg-dry	1	6/3/2013 07:49 PM
Chromium	19		2.5	mg/Kg-dry	1	6/3/2013 07:49 PM
Cobalt	10		6.4	mg/Kg-dry	1	6/3/2013 07:49 PM
Copper	49		6.4	mg/Kg-dry	1	6/3/2013 07:49 PM
Iron	39,000		130	mg/Kg-dry	1	6/3/2013 07:49 PM
Lead	44		6.4	mg/Kg-dry	1	6/3/2013 07:49 PM
Magnesium	7,300		130	mg/Kg-dry	1	6/3/2013 07:49 PM
Manganese	350		6.4	mg/Kg-dry	1	6/3/2013 07:49 PM
Nickel	27		6.4	mg/Kg-dry	1	6/3/2013 07:49 PM
Potassium	2,100		640	mg/Kg-dry	1	6/3/2013 07:49 PM
Selenium	ND		3.8	mg/Kg-dry	1	6/3/2013 07:49 PM
Silver	ND		1.3	mg/Kg-dry	1	6/3/2013 07:49 PM
Sodium	ND		640	mg/Kg-dry	1	6/3/2013 07:49 PM
Thallium	ND		3.8	mg/Kg-dry	1	6/3/2013 07:49 PM
Vanadium	19		6.4	mg/Kg-dry	1	6/3/2013 07:49 PM
Zinc	150		6.4	mg/Kg-dry	1	6/3/2013 07:49 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/5/2013	Analyst: Microb

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-7-53013

Lab ID: 1305701-03

Collection Date: 5/30/2013 02:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
4,4'-DDE	6.4		2.0	µg/Kg	1	6/18/2013 03:58 AM
4,4'-DDT	15		2.0	µg/Kg	1	6/18/2013 03:58 AM
Aldrin	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
alpha-BHC	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
alpha-Chlordane	9.5		2.0	µg/Kg	1	6/18/2013 03:58 AM
beta-BHC	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
delta-BHC	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Dieldrin	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Endosulfan I	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Endosulfan II	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Endosulfan sulfate	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Endrin	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Endrin aldehyde	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Endrin ketone	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
gamma-BHC (Lindane)	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
gamma-Chlordane	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Heptachlor	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Heptachlor epoxide	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Methoxychlor	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Toxaphene	ND		40	µg/Kg	1	6/18/2013 03:58 AM
Surr: Decachlorobiphenyl	42.8		33-143	%REC	1	6/18/2013 03:58 AM
Surr: Tetrachloro-m-xylene	49.4		39-130	%REC	1	6/18/2013 03:58 AM

HERBICIDES

SW8151

Prep Date: 6/5/2013

Analyst: Microb

2,4,5-T	ND		0.052	mg/Kg	1	6/11/2013 06:54 AM
2,4,5-TP (Silvex)	ND		0.039	mg/Kg	1	6/11/2013 06:54 AM
2,4-D	ND		0.52	mg/Kg	1	6/11/2013 06:54 AM
2,4-DB	ND		0.52	mg/Kg	1	6/11/2013 06:54 AM
Dalapon	ND		1.3	mg/Kg	1	6/11/2013 06:54 AM
Dicamba	ND		0.052	mg/Kg	1	6/11/2013 06:54 AM
Dichlorprop	ND		0.52	mg/Kg	1	6/11/2013 06:54 AM
Dinoseb	ND		0.26	mg/Kg	1	6/11/2013 06:54 AM
MCPA	ND		52	mg/Kg	1	6/11/2013 06:54 AM
MCPP	ND		52	mg/Kg	1	6/11/2013 06:54 AM
Pentachlorophenol	ND		0.052	mg/Kg	1	6/11/2013 06:54 AM
Surr: 2,4-Dichlorophenylacetic acid	0		25-110	%REC	1	6/11/2013 06:54 AM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 6/7/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
1,2,4-Trichlorobenzene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-7-53013

Lab ID: 1305701-03

Collection Date: 5/30/2013 02:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
1,3-Dichlorobenzene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
1,3-Dinitrobenzene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
1,4-Dichlorobenzene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
1-Methylnaphthalene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
1-Naphthylamine	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
2,3,4,6-Tetrachlorophenol	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
2,4,5-Trichlorophenol	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
2,4,6-Trichlorophenol	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
2,4-Dichlorophenol	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
2,4-Dimethylphenol	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
2,4-Dinitrophenol	ND		2,100	µg/Kg-dry	1	6/10/2013 11:34 PM
2,4-Dinitrotoluene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
2,6-Dichlorophenol	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
2,6-Dinitrotoluene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
2-Acetylaminofluorene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
2-Chloronaphthalene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
2-Chlorophenol	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
2-Methylnaphthalene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
2-Methylphenol	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
2-Naphthylamine	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
2-Nitroaniline	ND		2,100	µg/Kg-dry	1	6/10/2013 11:34 PM
2-Nitrophenol	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
2-Picoline	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
3&4-Methylphenol	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
3,3'-Dichlorobenzidine	ND		850	µg/Kg-dry	1	6/10/2013 11:34 PM
3-Methylcholanthrene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
3-Nitroaniline	ND		2,100	µg/Kg-dry	1	6/10/2013 11:34 PM
4,6-Dinitro-2-methylphenol	ND		2,100	µg/Kg-dry	1	6/10/2013 11:34 PM
4-Aminobiphenyl	ND		850	µg/Kg-dry	1	6/10/2013 11:34 PM
4-Bromophenyl phenyl ether	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
4-Chloro-3-methylphenol	ND		850	µg/Kg-dry	1	6/10/2013 11:34 PM
4-Chloroaniline	ND		850	µg/Kg-dry	1	6/10/2013 11:34 PM
4-Chlorophenyl phenyl ether	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
4-Nitroaniline	ND		850	µg/Kg-dry	1	6/10/2013 11:34 PM
4-Nitrophenol	ND		2,100	µg/Kg-dry	1	6/10/2013 11:34 PM
4-Nitroquinoline 1-oxide	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
5-Nitro-o-toluidine	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
7,12-Dimethylbenz(a)anthracene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Acenaphthene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-7-53013

Lab ID: 1305701-03

Collection Date: 5/30/2013 02:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Acetophenone	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Aniline	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Anthracene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Azobenzene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Benzidine	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Benzo(a)anthracene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Benzo(a)pyrene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Benzo(b)fluoranthene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Benzo(g,h,i)perylene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Benzo(k)fluoranthene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Benzyl alcohol	ND		850	µg/Kg-dry	1	6/10/2013 11:34 PM
Bis(2-chloroethoxy)methane	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Bis(2-chloroethyl)ether	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Bis(2-chloroisopropyl)ether	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Bis(2-ethylhexyl)phthalate	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Butyl benzyl phthalate	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Carbazole	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Chrysene	510		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Dibenzo(a,h)anthracene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Dibenzofuran	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Diethyl phthalate	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Dimethyl phthalate	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Di-n-butyl phthalate	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Di-n-octyl phthalate	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Dinoseb	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Diphenylamine	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Ethyl methanesulfonate	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Fluoranthene	510		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Fluorene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Hexachlorobenzene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Hexachlorobutadiene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Hexachlorocyclopentadiene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Hexachloroethane	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Indeno(1,2,3-cd)pyrene	ND		190	µg/Kg-dry	1	6/10/2013 11:34 PM
Isophorone	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Isosafrole	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Methapyrilene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Methyl methanesulfonate	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Naphthalene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-7-53013

Lab ID: 1305701-03

Collection Date: 5/30/2013 02:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
N-Nitrosodiethylamine	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
N-Nitrosodimethylamine	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
N-Nitroso-di-n-butylamine	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
N-Nitrosodi-n-propylamine	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
N-Nitrosomethylethylamine	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
N-Nitrosomorpholine	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
N-Nitrosopiperidine	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
N-Nitrosopyrrolidine	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
o-Toluidine	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
p-Dimethylaminoazobenzene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Pentachlorobenzene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Pentachloroethane	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Pentachloronitrobenzene	ND		850	µg/Kg-dry	1	6/10/2013 11:34 PM
Pentachlorophenol	ND		2,100	µg/Kg-dry	1	6/10/2013 11:34 PM
Phenacetin	ND		850	µg/Kg-dry	1	6/10/2013 11:34 PM
Phenanthrene	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Phenol	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Pyrene	450		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Pyridine	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
Safrole	ND		430	µg/Kg-dry	1	6/10/2013 11:34 PM
<i>Surr: 2,4,6-Tribromophenol</i>	<i>85.6</i>		<i>18-115</i>	<i>%REC</i>	1	6/10/2013 11:34 PM
<i>Surr: 2-Fluorobiphenyl</i>	<i>69.1</i>		<i>30-116</i>	<i>%REC</i>	1	6/10/2013 11:34 PM
<i>Surr: 2-Fluorophenol</i>	<i>51.6</i>		<i>24-105</i>	<i>%REC</i>	1	6/10/2013 11:34 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>67.5</i>		<i>40-127</i>	<i>%REC</i>	1	6/10/2013 11:34 PM
<i>Surr: Nitrobenzene-d5</i>	<i>64.4</i>		<i>32-106</i>	<i>%REC</i>	1	6/10/2013 11:34 PM
<i>Surr: Phenol-d5</i>	<i>62.8</i>		<i>39-123</i>	<i>%REC</i>	1	6/10/2013 11:34 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 6/6/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
1,1,1-Trichloroethane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
1,1,2,2-Tetrachloroethane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
1,1,2-Trichloroethane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
1,1-Dichloroethane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
1,1-Dichloroethene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
1,1-Dichloropropene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
1,2,3-Trichlorobenzene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
1,2,3-Trichloropropane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
1,2,4-Trichlorobenzene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
1,2,4-Trimethylbenzene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
1,2-Dibromo-3-chloropropane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-7-53013

Lab ID: 1305701-03

Collection Date: 5/30/2013 02:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
1,2-Dichlorobenzene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
1,2-Dichloroethane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
1,2-Dichloropropane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
1,3,5-Trimethylbenzene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
1,3-Dichlorobenzene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
1,3-Dichloropropane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
1,4-Dichlorobenzene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
2,2-Dichloropropane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
2-Butanone	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
2-Chlorotoluene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
2-Hexanone	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
4-Chlorotoluene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
4-Methyl-2-pentanone	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Acetone	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Benzene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Bromobenzene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Bromochloromethane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Bromodichloromethane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Bromoform	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Bromomethane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Carbon disulfide	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Carbon tetrachloride	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Chlorobenzene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Chloroethane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Chloroform	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Chloromethane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
cis-1,2-Dichloroethene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
cis-1,3-Dichloropropene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Dibromochloromethane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Dibromomethane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Dichlorodifluoromethane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Ethylbenzene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Hexachlorobutadiene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Isopropylbenzene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
m,p-Xylene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Methyl tert-butyl ether	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Methylene chloride	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Naphthalene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
n-Butylbenzene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-7-53013

Lab ID: 1305701-03

Collection Date: 5/30/2013 02:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
o-Xylene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
p-Isopropyltoluene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
sec-Butylbenzene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Styrene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
tert-Butylbenzene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Tetrachloroethene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Toluene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
trans-1,2-Dichloroethene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
trans-1,3-Dichloropropene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Trichloroethene	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Trichlorofluoromethane	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Vinyl chloride	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Xylenes, Total	ND		5.4	µg/Kg-dry	1	6/6/2013 02:28 PM
Surr: 4-Bromofluorobenzene	105		62.7-159	%REC	1	6/6/2013 02:28 PM
Surr: Dibromofluoromethane	94.5		88.2-133	%REC	1	6/6/2013 02:28 PM
Surr: Toluene-d8	91.3		81.5-110	%REC	1	6/6/2013 02:28 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-1-53013

Lab ID: 1305701-04

Collection Date: 5/30/2013 03:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/10/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/12/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/12/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/12/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/12/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/12/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/12/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/12/2013
Surr: Decachlorobiphenyl	80.6		22-156	%REC	1	6/12/2013
Surr: Tetrachloro-m-xylene	109		34-145	%REC	1	6/12/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	6/3/2013
MERCURY BY CVAA			SW7471A		Prep Date: 6/1/2013	Analyst: SLW
Mercury	0.59		0.34	mg/Kg-dry	1	6/3/2013 06:44 PM
METALS BY ICP			SW6010B		Prep Date: 6/3/2013	Analyst: VAW
Aluminum	11,000		570	mg/Kg-dry	1	6/3/2013 07:56 PM
Antimony	ND		3.4	mg/Kg-dry	1	6/3/2013 07:56 PM
Arsenic	9.6		5.7	mg/Kg-dry	1	6/3/2013 07:56 PM
Barium	62		11	mg/Kg-dry	1	6/3/2013 07:56 PM
Beryllium	0.62		0.023	mg/Kg-dry	1	6/3/2013 07:56 PM
Cadmium	ND		1.1	mg/Kg-dry	1	6/3/2013 07:56 PM
Calcium	27,000		570	mg/Kg-dry	1	6/3/2013 07:56 PM
Chromium	18		2.3	mg/Kg-dry	1	6/3/2013 07:56 PM
Cobalt	11		5.7	mg/Kg-dry	1	6/3/2013 07:56 PM
Copper	27		5.7	mg/Kg-dry	1	6/3/2013 07:56 PM
Iron	25,000		110	mg/Kg-dry	1	6/3/2013 07:56 PM
Lead	21		5.7	mg/Kg-dry	1	6/3/2013 07:56 PM
Magnesium	10,000		110	mg/Kg-dry	1	6/3/2013 07:56 PM
Manganese	330		5.7	mg/Kg-dry	1	6/3/2013 07:56 PM
Nickel	25		5.7	mg/Kg-dry	1	6/3/2013 07:56 PM
Potassium	1,200		570	mg/Kg-dry	1	6/3/2013 07:56 PM
Selenium	ND		3.4	mg/Kg-dry	1	6/3/2013 07:56 PM
Silver	ND		1.1	mg/Kg-dry	1	6/3/2013 07:56 PM
Sodium	ND		570	mg/Kg-dry	1	6/3/2013 07:56 PM
Thallium	ND		3.4	mg/Kg-dry	1	6/3/2013 07:56 PM
Vanadium	21		5.7	mg/Kg-dry	1	6/3/2013 07:56 PM
Zinc	240		5.7	mg/Kg-dry	1	6/3/2013 07:56 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/5/2013	Analyst: Microb

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-1-53013

Lab ID: 1305701-04

Collection Date: 5/30/2013 03:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
4,4'-DDE	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
4,4'-DDT	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Aldrin	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
alpha-BHC	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
alpha-Chlordane	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
beta-BHC	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
delta-BHC	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Dieldrin	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Endosulfan I	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Endosulfan II	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Endosulfan sulfate	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Endrin	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Endrin aldehyde	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Endrin ketone	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
gamma-BHC (Lindane)	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
gamma-Chlordane	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Heptachlor	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Heptachlor epoxide	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Methoxychlor	ND		2.0	µg/Kg	1	6/18/2013 03:58 AM
Toxaphene	ND		40	µg/Kg	1	6/18/2013 03:58 AM
<i>Surr: Decachlorobiphenyl</i>	54.0		33-143	%REC	1	6/18/2013 03:58 AM
<i>Surr: Tetrachloro-m-xylene</i>	42.9		39-130	%REC	1	6/18/2013 03:58 AM

HERBICIDES

SW8151

Prep Date: 6/5/2013

Analyst: Microb

2,4,5-T	ND		0.0051	mg/Kg	1	6/11/2013 02:09 AM
2,4,5-TP (Silvex)	ND		0.0038	mg/Kg	1	6/11/2013 02:09 AM
2,4-D	ND		0.051	mg/Kg	1	6/11/2013 02:09 AM
2,4-DB	ND		0.051	mg/Kg	1	6/11/2013 02:09 AM
Dalapon	ND		0.13	mg/Kg	1	6/11/2013 02:09 AM
Dicamba	ND		0.0051	mg/Kg	1	6/11/2013 02:09 AM
Dichlorprop	ND		0.051	mg/Kg	1	6/11/2013 02:09 AM
Dinoseb	ND		0.025	mg/Kg	1	6/11/2013 02:09 AM
MCPA	ND		5.1	mg/Kg	1	6/11/2013 02:09 AM
MCPP	ND		5.1	mg/Kg	1	6/11/2013 02:09 AM
Pentachlorophenol	ND		0.0051	mg/Kg	1	6/11/2013 02:09 AM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	150	S	25-110	%REC	1	6/11/2013 02:09 AM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 6/7/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
1,2,4-Trichlorobenzene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-1-53013

Lab ID: 1305701-04

Collection Date: 5/30/2013 03:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
1,3-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
1,3-Dinitrobenzene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
1,4-Dichlorobenzene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
1-Methylnaphthalene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
1-Naphthylamine	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
2,3,4,6-Tetrachlorophenol	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
2,4,5-Trichlorophenol	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
2,4,6-Trichlorophenol	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
2,4-Dichlorophenol	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
2,4-Dimethylphenol	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	6/11/2013 12:07 PM
2,4-Dinitrotoluene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
2,6-Dichlorophenol	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
2,6-Dinitrotoluene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
2-Acetylaminofluorene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
2-Chloronaphthalene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
2-Chlorophenol	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
2-Methylnaphthalene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
2-Methylphenol	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
2-Naphthylamine	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	6/11/2013 12:07 PM
2-Nitrophenol	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
2-Picoline	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
3&4-Methylphenol	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
3,3'-Dichlorobenzidine	ND		760	µg/Kg-dry	1	6/11/2013 12:07 PM
3-Methylcholanthrene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	6/11/2013 12:07 PM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	6/11/2013 12:07 PM
4-Aminobiphenyl	ND		760	µg/Kg-dry	1	6/11/2013 12:07 PM
4-Bromophenyl phenyl ether	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
4-Chloro-3-methylphenol	ND		760	µg/Kg-dry	1	6/11/2013 12:07 PM
4-Chloroaniline	ND		760	µg/Kg-dry	1	6/11/2013 12:07 PM
4-Chlorophenyl phenyl ether	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
4-Nitroaniline	ND		760	µg/Kg-dry	1	6/11/2013 12:07 PM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	6/11/2013 12:07 PM
4-Nitroquinoline 1-oxide	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
5-Nitro-o-toluidine	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
7,12-Dimethylbenz(a)anthracene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Acenaphthene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-1-53013

Lab ID: 1305701-04

Collection Date: 5/30/2013 03:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Acetophenone	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Aniline	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Anthracene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Azobenzene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Benzidine	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Benzo(a)anthracene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Benzo(a)pyrene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Benzo(b)fluoranthene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Benzo(g,h,i)perylene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Benzo(k)fluoranthene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Benzyl alcohol	ND		760	µg/Kg-dry	1	6/11/2013 12:07 PM
Bis(2-chloroethoxy)methane	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Bis(2-chloroethyl)ether	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Bis(2-chloroisopropyl)ether	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Bis(2-ethylhexyl)phthalate	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Butyl benzyl phthalate	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Carbazole	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Chrysene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Dibenzo(a,h)anthracene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Dibenzofuran	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Diethyl phthalate	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Dimethyl phthalate	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Di-n-butyl phthalate	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Di-n-octyl phthalate	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Dinoseb	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Diphenylamine	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Ethyl methanesulfonate	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Fluoranthene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Fluorene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Hexachlorobenzene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Hexachlorobutadiene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Hexachlorocyclopentadiene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Hexachloroethane	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Indeno(1,2,3-cd)pyrene	ND		170	µg/Kg-dry	1	6/11/2013 12:07 PM
Isophorone	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Isosafrole	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Methapyrilene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Methyl methanesulfonate	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Naphthalene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-1-53013

Lab ID: 1305701-04

Collection Date: 5/30/2013 03:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
N-Nitrosodiethylamine	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
N-Nitrosodimethylamine	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
N-Nitroso-di-n-butylamine	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
N-Nitrosodi-n-propylamine	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
N-Nitrosomethylethylamine	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
N-Nitrosomorpholine	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
N-Nitrosopiperidine	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
N-Nitrosopyrrolidine	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
o-Toluidine	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
p-Dimethylaminoazobenzene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Pentachlorobenzene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Pentachloroethane	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Pentachloronitrobenzene	ND		760	µg/Kg-dry	1	6/11/2013 12:07 PM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	6/11/2013 12:07 PM
Phenacetin	ND		760	µg/Kg-dry	1	6/11/2013 12:07 PM
Phenanthrene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Phenol	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Pyrene	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Pyridine	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
Safrole	ND		380	µg/Kg-dry	1	6/11/2013 12:07 PM
<i>Surr: 2,4,6-Tribromophenol</i>	85.5		18-115	%REC	1	6/11/2013 12:07 PM
<i>Surr: 2-Fluorobiphenyl</i>	74.9		30-116	%REC	1	6/11/2013 12:07 PM
<i>Surr: 2-Fluorophenol</i>	59.5		24-105	%REC	1	6/11/2013 12:07 PM
<i>Surr: 4-Terphenyl-d14</i>	79.2		40-127	%REC	1	6/11/2013 12:07 PM
<i>Surr: Nitrobenzene-d5</i>	79.0		32-106	%REC	1	6/11/2013 12:07 PM
<i>Surr: Phenol-d5</i>	72.0		39-123	%REC	1	6/11/2013 12:07 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 6/6/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
1,1,1-Trichloroethane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
1,1,2,2-Tetrachloroethane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
1,1,2-Trichloroethane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
1,1-Dichloroethane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
1,1-Dichloroethene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
1,1-Dichloropropene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
1,2,3-Trichlorobenzene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
1,2,3-Trichloropropane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
1,2,4-Trichlorobenzene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
1,2,4-Trimethylbenzene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
1,2-Dibromo-3-chloropropane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-1-53013

Lab ID: 1305701-04

Collection Date: 5/30/2013 03:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
1,2-Dichlorobenzene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
1,2-Dichloroethane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
1,2-Dichloropropane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
1,3,5-Trimethylbenzene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
1,3-Dichlorobenzene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
1,3-Dichloropropane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
1,4-Dichlorobenzene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
2,2-Dichloropropane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
2-Butanone	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
2-Chlorotoluene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
2-Hexanone	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
4-Chlorotoluene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
4-Methyl-2-pentanone	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Acetone	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Benzene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Bromobenzene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Bromochloromethane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Bromodichloromethane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Bromoform	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Bromomethane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Carbon disulfide	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Carbon tetrachloride	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Chlorobenzene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Chloroethane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Chloroform	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Chloromethane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
cis-1,2-Dichloroethene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
cis-1,3-Dichloropropene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Dibromochloromethane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Dibromomethane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Dichlorodifluoromethane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Ethylbenzene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Hexachlorobutadiene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Isopropylbenzene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
m,p-Xylene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Methyl tert-butyl ether	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Methylene chloride	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Naphthalene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
n-Butylbenzene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-1-53013

Lab ID: 1305701-04

Collection Date: 5/30/2013 03:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
o-Xylene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
p-Isopropyltoluene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
sec-Butylbenzene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Styrene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
tert-Butylbenzene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Tetrachloroethene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Toluene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
trans-1,2-Dichloroethene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
trans-1,3-Dichloropropene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Trichloroethene	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Trichlorofluoromethane	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Vinyl chloride	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Xylenes, Total	ND		5.5	µg/Kg-dry	1	6/6/2013 03:00 PM
Surr: 4-Bromofluorobenzene	98.7		62.7-159	%REC	1	6/6/2013 03:00 PM
Surr: Dibromofluoromethane	93.6		88.2-133	%REC	1	6/6/2013 03:00 PM
Surr: Toluene-d8	93.0		81.5-110	%REC	1	6/6/2013 03:00 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-2-53013

Lab ID: 1305701-05

Collection Date: 5/30/2013 03:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/10/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/12/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/12/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/12/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/12/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/12/2013
Aroclor 1254	ND		0.12	mg/Kg-dry	1	6/12/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/12/2013
Surr: Decachlorobiphenyl	81.6		22-156	%REC	1	6/12/2013
Surr: Tetrachloro-m-xylene	100		34-145	%REC	1	6/12/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	16		0.010	% of sample	1	6/3/2013
MERCURY BY CVAA			SW7471A		Prep Date: 6/1/2013	Analyst: SLW
Mercury	ND		0.35	mg/Kg-dry	1	6/3/2013 06:55 PM
METALS BY ICP			SW6010B		Prep Date: 6/3/2013	Analyst: VAW
Aluminum	9,100		590	mg/Kg-dry	1	6/3/2013 08:02 PM
Antimony	ND		3.5	mg/Kg-dry	1	6/3/2013 08:02 PM
Arsenic	8.4		5.9	mg/Kg-dry	1	6/3/2013 08:02 PM
Barium	53		12	mg/Kg-dry	1	6/3/2013 08:02 PM
Beryllium	0.56		0.024	mg/Kg-dry	1	6/3/2013 08:02 PM
Cadmium	ND		1.2	mg/Kg-dry	1	6/3/2013 08:02 PM
Calcium	14,000		590	mg/Kg-dry	1	6/3/2013 08:02 PM
Chromium	14		2.4	mg/Kg-dry	1	6/3/2013 08:02 PM
Cobalt	7.9		5.9	mg/Kg-dry	1	6/3/2013 08:02 PM
Copper	18		5.9	mg/Kg-dry	1	6/3/2013 08:02 PM
Iron	19,000		120	mg/Kg-dry	1	6/3/2013 08:02 PM
Lead	25		5.9	mg/Kg-dry	1	6/3/2013 08:02 PM
Magnesium	3,900		120	mg/Kg-dry	1	6/3/2013 08:02 PM
Manganese	230		5.9	mg/Kg-dry	1	6/3/2013 08:02 PM
Nickel	18		5.9	mg/Kg-dry	1	6/3/2013 08:02 PM
Potassium	880		590	mg/Kg-dry	1	6/3/2013 08:02 PM
Selenium	ND		3.5	mg/Kg-dry	1	6/3/2013 08:02 PM
Silver	ND		1.2	mg/Kg-dry	1	6/3/2013 08:02 PM
Sodium	ND		590	mg/Kg-dry	1	6/3/2013 08:02 PM
Thallium	ND		3.5	mg/Kg-dry	1	6/3/2013 08:02 PM
Vanadium	19		5.9	mg/Kg-dry	1	6/3/2013 08:02 PM
Zinc	70		5.9	mg/Kg-dry	1	6/3/2013 08:02 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/5/2013	Analyst: Microb

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-2-53013

Lab ID: 1305701-05

Collection Date: 5/30/2013 03:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		1.8	µg/Kg	1	6/12/2013 08:49 AM
4,4'-DDE	ND		1.8	µg/Kg	1	6/12/2013 08:49 AM
4,4'-DDT	ND		1.8	µg/Kg	1	6/12/2013 08:49 AM
Aldrin	ND		1.8	µg/Kg	1	6/12/2013 08:49 AM
alpha-BHC	ND		1.8	µg/Kg	1	6/12/2013 08:49 AM
alpha-Chlordane	ND		1.8	µg/Kg	1	6/12/2013 08:49 AM
beta-BHC	ND		1.8	µg/Kg	1	6/12/2013 08:49 AM
delta-BHC	ND		1.8	µg/Kg	1	6/12/2013 08:49 AM
Dieldrin	ND		1.8	µg/Kg	1	6/12/2013 08:49 AM
Endosulfan I	ND		1.8	µg/Kg	1	6/12/2013 08:49 AM
Endosulfan II	ND		1.8	µg/Kg	1	6/12/2013 08:49 AM
Endosulfan sulfate	ND		1.8	µg/Kg	1	6/12/2013 08:49 AM
Endrin	ND		1.8	µg/Kg	1	6/12/2013 08:49 AM
Endrin aldehyde	ND		1.8	µg/Kg	1	6/12/2013 08:49 AM
Endrin ketone	ND		1.8	µg/Kg	1	6/12/2013 08:49 AM
gamma-BHC (Lindane)	ND		1.8	µg/Kg	1	6/12/2013 08:49 AM
gamma-Chlordane	ND		1.8	µg/Kg	1	6/12/2013 08:49 AM
Heptachlor	ND		1.8	µg/Kg	1	6/12/2013 08:49 AM
Heptachlor epoxide	ND		1.8	µg/Kg	1	6/12/2013 08:49 AM
Methoxychlor	ND		1.8	µg/Kg	1	6/12/2013 08:49 AM
Toxaphene	ND		37	µg/Kg	1	6/12/2013 08:49 AM
<i>Surr: Decachlorobiphenyl</i>	44.0		33-143	%REC	1	6/12/2013 08:49 AM
<i>Surr: Tetrachloro-m-xylene</i>	47.8		39-130	%REC	1	6/12/2013 08:49 AM

HERBICIDES

SW8151

Prep Date: 6/5/2013

Analyst: Microb

2,4,5-T	ND		0.0050	mg/Kg	1	6/11/2013 02:35 AM
2,4,5-TP (Silvex)	ND		0.0038	mg/Kg	1	6/11/2013 02:35 AM
2,4-D	ND		0.050	mg/Kg	1	6/11/2013 02:35 AM
2,4-DB	ND		0.050	mg/Kg	1	6/11/2013 02:35 AM
Dalapon	ND		0.12	mg/Kg	1	6/11/2013 02:35 AM
Dicamba	ND		0.0050	mg/Kg	1	6/11/2013 02:35 AM
Dichlorprop	ND		0.050	mg/Kg	1	6/11/2013 02:35 AM
Dinoseb	ND		0.025	mg/Kg	1	6/11/2013 02:35 AM
MCPA	ND		5.0	mg/Kg	1	6/11/2013 02:35 AM
MCPP	ND		5.0	mg/Kg	1	6/11/2013 02:35 AM
Pentachlorophenol	ND		0.0050	mg/Kg	1	6/11/2013 02:35 AM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	109		25-110	%REC	1	6/11/2013 02:35 AM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 6/7/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
1,2,4-Trichlorobenzene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-2-53013

Lab ID: 1305701-05

Collection Date: 5/30/2013 03:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
1,3-Dichlorobenzene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
1,3-Dinitrobenzene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
1,4-Dichlorobenzene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
1-Methylnaphthalene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
1-Naphthylamine	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
2,3,4,6-Tetrachlorophenol	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
2,4,5-Trichlorophenol	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
2,4,6-Trichlorophenol	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
2,4-Dichlorophenol	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
2,4-Dimethylphenol	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
2,4-Dinitrophenol	ND		2,000	µg/Kg-dry	1	6/11/2013 12:40 PM
2,4-Dinitrotoluene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
2,6-Dichlorophenol	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
2,6-Dinitrotoluene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
2-Acetylaminofluorene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
2-Chloronaphthalene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
2-Chlorophenol	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
2-Methylnaphthalene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
2-Methylphenol	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
2-Naphthylamine	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
2-Nitroaniline	ND		2,000	µg/Kg-dry	1	6/11/2013 12:40 PM
2-Nitrophenol	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
2-Picoline	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
3&4-Methylphenol	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
3,3'-Dichlorobenzidine	ND		790	µg/Kg-dry	1	6/11/2013 12:40 PM
3-Methylcholanthrene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
3-Nitroaniline	ND		2,000	µg/Kg-dry	1	6/11/2013 12:40 PM
4,6-Dinitro-2-methylphenol	ND		2,000	µg/Kg-dry	1	6/11/2013 12:40 PM
4-Aminobiphenyl	ND		790	µg/Kg-dry	1	6/11/2013 12:40 PM
4-Bromophenyl phenyl ether	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
4-Chloro-3-methylphenol	ND		790	µg/Kg-dry	1	6/11/2013 12:40 PM
4-Chloroaniline	ND		790	µg/Kg-dry	1	6/11/2013 12:40 PM
4-Chlorophenyl phenyl ether	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
4-Nitroaniline	ND		790	µg/Kg-dry	1	6/11/2013 12:40 PM
4-Nitrophenol	ND		2,000	µg/Kg-dry	1	6/11/2013 12:40 PM
4-Nitroquinoline 1-oxide	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
5-Nitro-o-toluidine	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
7,12-Dimethylbenz(a)anthracene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Acenaphthene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-2-53013

Lab ID: 1305701-05

Collection Date: 5/30/2013 03:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Acetophenone	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Aniline	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Anthracene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Azobenzene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Benzidine	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Benzo(a)anthracene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Benzo(a)pyrene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Benzo(b)fluoranthene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Benzo(g,h,i)perylene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Benzo(k)fluoranthene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Benzyl alcohol	ND		790	µg/Kg-dry	1	6/11/2013 12:40 PM
Bis(2-chloroethoxy)methane	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Bis(2-chloroethyl)ether	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Bis(2-chloroisopropyl)ether	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Bis(2-ethylhexyl)phthalate	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Butyl benzyl phthalate	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Carbazole	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Chrysene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Dibenzo(a,h)anthracene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Dibenzofuran	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Diethyl phthalate	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Dimethyl phthalate	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Di-n-butyl phthalate	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Di-n-octyl phthalate	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Dinoseb	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Diphenylamine	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Ethyl methanesulfonate	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Fluoranthene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Fluorene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Hexachlorobenzene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Hexachlorobutadiene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Hexachlorocyclopentadiene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Hexachloroethane	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Indeno(1,2,3-cd)pyrene	ND		180	µg/Kg-dry	1	6/11/2013 12:40 PM
Isophorone	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Isosafrole	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Methapyrilene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Methyl methanesulfonate	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Naphthalene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-2-53013

Lab ID: 1305701-05

Collection Date: 5/30/2013 03:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
N-Nitrosodiethylamine	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
N-Nitrosodimethylamine	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
N-Nitroso-di-n-butylamine	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
N-Nitrosodi-n-propylamine	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
N-Nitrosomethylethylamine	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
N-Nitrosomorpholine	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
N-Nitrosopiperidine	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
N-Nitrosopyrrolidine	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
o-Toluidine	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
p-Dimethylaminoazobenzene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Pentachlorobenzene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Pentachloroethane	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Pentachloronitrobenzene	ND		790	µg/Kg-dry	1	6/11/2013 12:40 PM
Pentachlorophenol	ND		2,000	µg/Kg-dry	1	6/11/2013 12:40 PM
Phenacetin	ND		790	µg/Kg-dry	1	6/11/2013 12:40 PM
Phenanthrene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Phenol	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Pyrene	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Pyridine	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
Safrole	ND		390	µg/Kg-dry	1	6/11/2013 12:40 PM
<i>Surr: 2,4,6-Tribromophenol</i>	73.3		18-115	%REC	1	6/11/2013 12:40 PM
<i>Surr: 2-Fluorobiphenyl</i>	73.3		30-116	%REC	1	6/11/2013 12:40 PM
<i>Surr: 2-Fluorophenol</i>	60.3		24-105	%REC	1	6/11/2013 12:40 PM
<i>Surr: 4-Terphenyl-d14</i>	74.1		40-127	%REC	1	6/11/2013 12:40 PM
<i>Surr: Nitrobenzene-d5</i>	74.8		32-106	%REC	1	6/11/2013 12:40 PM
<i>Surr: Phenol-d5</i>	70.1		39-123	%REC	1	6/11/2013 12:40 PM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 6/6/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
1,1,1-Trichloroethane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
1,1,2,2-Tetrachloroethane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
1,1,2-Trichloroethane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
1,1-Dichloroethane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
1,1-Dichloroethene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
1,1-Dichloropropene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
1,2,3-Trichlorobenzene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
1,2,3-Trichloropropane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
1,2,4-Trichlorobenzene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
1,2,4-Trimethylbenzene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
1,2-Dibromo-3-chloropropane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-2-53013

Lab ID: 1305701-05

Collection Date: 5/30/2013 03:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
1,2-Dichlorobenzene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
1,2-Dichloroethane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
1,2-Dichloropropane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
1,3,5-Trimethylbenzene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
1,3-Dichlorobenzene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
1,3-Dichloropropane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
1,4-Dichlorobenzene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
2,2-Dichloropropane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
2-Butanone	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
2-Chlorotoluene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
2-Hexanone	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
4-Chlorotoluene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
4-Methyl-2-pentanone	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Acetone	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Benzene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Bromobenzene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Bromochloromethane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Bromodichloromethane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Bromoform	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Bromomethane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Carbon disulfide	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Carbon tetrachloride	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Chlorobenzene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Chloroethane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Chloroform	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Chloromethane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
cis-1,2-Dichloroethene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
cis-1,3-Dichloropropene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Dibromochloromethane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Dibromomethane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Dichlorodifluoromethane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Ethylbenzene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Hexachlorobutadiene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Isopropylbenzene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
m,p-Xylene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Methyl tert-butyl ether	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Methylene chloride	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Naphthalene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
n-Butylbenzene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-2-53013

Lab ID: 1305701-05

Collection Date: 5/30/2013 03:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
o-Xylene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
p-Isopropyltoluene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
sec-Butylbenzene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Styrene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
tert-Butylbenzene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Tetrachloroethene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Toluene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
trans-1,2-Dichloroethene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
trans-1,3-Dichloropropene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Trichloroethene	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Trichlorofluoromethane	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Vinyl chloride	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Xylenes, Total	ND		5.2	µg/Kg-dry	1	6/6/2013 03:31 PM
Surr: 4-Bromofluorobenzene	107		62.7-159	%REC	1	6/6/2013 03:31 PM
Surr: Dibromofluoromethane	96.8		88.2-133	%REC	1	6/6/2013 03:31 PM
Surr: Toluene-d8	95.1		81.5-110	%REC	1	6/6/2013 03:31 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-3-53013

Lab ID: 1305701-06

Collection Date: 5/30/2013 04:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/10/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/12/2013
Aroclor 1221	ND		0.23	mg/Kg-dry	1	6/12/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/12/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/12/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/12/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/12/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/12/2013
Surr: Decachlorobiphenyl	80.4		22-156	%REC	1	6/12/2013
Surr: Tetrachloro-m-xylene	98.8		34-145	%REC	1	6/12/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	11		0.010	% of sample	1	6/3/2013
MERCURY BY CVAA			SW7471A		Prep Date: 6/1/2013	Analyst: SLW
Mercury	ND		0.33	mg/Kg-dry	1	6/3/2013 06:57 PM
METALS BY ICP			SW6010B		Prep Date: 6/3/2013	Analyst: VAW
Aluminum	7,200		560	mg/Kg-dry	1	6/3/2013 08:08 PM
Antimony	ND		3.3	mg/Kg-dry	1	6/3/2013 08:08 PM
Arsenic	8.6		5.6	mg/Kg-dry	1	6/3/2013 08:08 PM
Barium	60		11	mg/Kg-dry	1	6/3/2013 08:08 PM
Beryllium	0.44		0.022	mg/Kg-dry	1	6/3/2013 08:08 PM
Cadmium	ND		1.1	mg/Kg-dry	1	6/3/2013 08:08 PM
Calcium	9,800		560	mg/Kg-dry	1	6/3/2013 08:08 PM
Chromium	10		2.2	mg/Kg-dry	1	6/3/2013 08:08 PM
Cobalt	6.3		5.6	mg/Kg-dry	1	6/3/2013 08:08 PM
Copper	15		5.6	mg/Kg-dry	1	6/3/2013 08:08 PM
Iron	16,000		110	mg/Kg-dry	1	6/3/2013 08:08 PM
Lead	100		5.6	mg/Kg-dry	1	6/3/2013 08:08 PM
Magnesium	4,100		110	mg/Kg-dry	1	6/3/2013 08:08 PM
Manganese	340		5.6	mg/Kg-dry	1	6/3/2013 08:08 PM
Nickel	13		5.6	mg/Kg-dry	1	6/3/2013 08:08 PM
Potassium	830		560	mg/Kg-dry	1	6/3/2013 08:08 PM
Selenium	ND		3.3	mg/Kg-dry	1	6/3/2013 08:08 PM
Silver	ND		1.1	mg/Kg-dry	1	6/3/2013 08:08 PM
Sodium	ND		560	mg/Kg-dry	1	6/3/2013 08:08 PM
Thallium	ND		3.3	mg/Kg-dry	1	6/3/2013 08:08 PM
Vanadium	17		5.6	mg/Kg-dry	1	6/3/2013 08:08 PM
Zinc	60		5.6	mg/Kg-dry	1	6/3/2013 08:08 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/5/2013	Analyst: Microb

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-3-53013

Lab ID: 1305701-06

Collection Date: 5/30/2013 04:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		8.5	µg/Kg	1	6/12/2013 12:04 PM
4,4'-DDE	ND		8.5	µg/Kg	1	6/12/2013 12:04 PM
4,4'-DDT	ND		8.5	µg/Kg	1	6/12/2013 12:04 PM
Aldrin	ND		8.5	µg/Kg	1	6/12/2013 12:04 PM
alpha-BHC	ND		8.5	µg/Kg	1	6/12/2013 12:04 PM
alpha-Chlordane	ND		8.5	µg/Kg	1	6/12/2013 12:04 PM
beta-BHC	ND		8.5	µg/Kg	1	6/12/2013 12:04 PM
delta-BHC	ND		8.5	µg/Kg	1	6/12/2013 12:04 PM
Dieldrin	ND		8.5	µg/Kg	1	6/12/2013 12:04 PM
Endosulfan I	ND		8.5	µg/Kg	1	6/12/2013 12:04 PM
Endosulfan II	ND		8.5	µg/Kg	1	6/12/2013 12:04 PM
Endosulfan sulfate	ND		8.5	µg/Kg	1	6/12/2013 12:04 PM
Endrin	ND		8.5	µg/Kg	1	6/12/2013 12:04 PM
Endrin aldehyde	ND		8.5	µg/Kg	1	6/12/2013 12:04 PM
Endrin ketone	ND		8.5	µg/Kg	1	6/12/2013 12:04 PM
gamma-BHC (Lindane)	ND		8.5	µg/Kg	1	6/12/2013 12:04 PM
gamma-Chlordane	ND		8.5	µg/Kg	1	6/12/2013 12:04 PM
Heptachlor	ND		8.5	µg/Kg	1	6/12/2013 12:04 PM
Heptachlor epoxide	ND		8.5	µg/Kg	1	6/12/2013 12:04 PM
Methoxychlor	ND		8.5	µg/Kg	1	6/12/2013 12:04 PM
Toxaphene	ND		170	µg/Kg	1	6/12/2013 12:04 PM
<i>Surr: Decachlorobiphenyl</i>	196	S	33-143	%REC	1	6/12/2013 12:04 PM
<i>Surr: Tetrachloro-m-xylene</i>	59.5		39-130	%REC	1	6/12/2013 12:04 PM

HERBICIDES

SW8151

Prep Date: 6/5/2013

Analyst: Microb

2,4,5-T	ND		0.045	mg/Kg	1	6/11/2013 07:20 AM
2,4,5-TP (Silvex)	ND		0.034	mg/Kg	1	6/11/2013 07:20 AM
2,4-D	ND		0.45	mg/Kg	1	6/11/2013 07:20 AM
2,4-DB	ND		0.45	mg/Kg	1	6/11/2013 07:20 AM
Dalapon	ND		1.1	mg/Kg	1	6/11/2013 07:20 AM
Dicamba	ND		0.045	mg/Kg	1	6/11/2013 07:20 AM
Dichlorprop	ND		0.45	mg/Kg	1	6/11/2013 07:20 AM
Dinoseb	ND		0.23	mg/Kg	1	6/11/2013 07:20 AM
MCPA	ND		45	mg/Kg	1	6/11/2013 07:20 AM
MCPP	ND		45	mg/Kg	1	6/11/2013 07:20 AM
Pentachlorophenol	ND		0.045	mg/Kg	1	6/11/2013 07:20 AM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	0		25-110	%REC	1	6/11/2013 07:20 AM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 6/7/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
1,2,4-Trichlorobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-3-53013

Lab ID: 1305701-06

Collection Date: 5/30/2013 04:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
1,3-Dichlorobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
1,3-Dinitrobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
1,4-Dichlorobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
1-Methylnaphthalene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
1-Naphthylamine	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
2,3,4,6-Tetrachlorophenol	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
2,4,5-Trichlorophenol	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
2,4,6-Trichlorophenol	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
2,4-Dichlorophenol	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
2,4-Dimethylphenol	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
2,4-Dinitrophenol	ND		1,900	µg/Kg-dry	1	6/11/2013 01:13 AM
2,4-Dinitrotoluene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
2,6-Dichlorophenol	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
2,6-Dinitrotoluene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
2-Acetylaminofluorene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
2-Chloronaphthalene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
2-Chlorophenol	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
2-Methylnaphthalene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
2-Methylphenol	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
2-Naphthylamine	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
2-Nitroaniline	ND		1,900	µg/Kg-dry	1	6/11/2013 01:13 AM
2-Nitrophenol	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
2-Picoline	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
3&4-Methylphenol	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
3,3'-Dichlorobenzidine	ND		740	µg/Kg-dry	1	6/11/2013 01:13 AM
3-Methylcholanthrene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
3-Nitroaniline	ND		1,900	µg/Kg-dry	1	6/11/2013 01:13 AM
4,6-Dinitro-2-methylphenol	ND		1,900	µg/Kg-dry	1	6/11/2013 01:13 AM
4-Aminobiphenyl	ND		740	µg/Kg-dry	1	6/11/2013 01:13 AM
4-Bromophenyl phenyl ether	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
4-Chloro-3-methylphenol	ND		740	µg/Kg-dry	1	6/11/2013 01:13 AM
4-Chloroaniline	ND		740	µg/Kg-dry	1	6/11/2013 01:13 AM
4-Chlorophenyl phenyl ether	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
4-Nitroaniline	ND		740	µg/Kg-dry	1	6/11/2013 01:13 AM
4-Nitrophenol	ND		1,900	µg/Kg-dry	1	6/11/2013 01:13 AM
4-Nitroquinoline 1-oxide	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
5-Nitro-o-toluidine	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
7,12-Dimethylbenz(a)anthracene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Acenaphthene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-3-53013

Lab ID: 1305701-06

Collection Date: 5/30/2013 04:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Acetophenone	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Aniline	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Anthracene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Azobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Benzidine	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Benzo(a)anthracene	1,800		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Benzo(a)pyrene	1,300		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Benzo(b)fluoranthene	1,400		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Benzo(g,h,i)perylene	550		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Benzo(k)fluoranthene	1,000		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Benzyl alcohol	ND		740	µg/Kg-dry	1	6/11/2013 01:13 AM
Bis(2-chloroethoxy)methane	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Bis(2-chloroethyl)ether	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Bis(2-chloroisopropyl)ether	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Bis(2-ethylhexyl)phthalate	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Butyl benzyl phthalate	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Carbazole	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Chrysene	1,400		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Dibenzo(a,h)anthracene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Dibenzofuran	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Diethyl phthalate	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Dimethyl phthalate	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Di-n-butyl phthalate	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Di-n-octyl phthalate	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Dinoseb	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Diphenylamine	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Ethyl methanesulfonate	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Fluoranthene	1,400		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Fluorene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Hexachlorobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Hexachlorobutadiene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Hexachlorocyclopentadiene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Hexachloroethane	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Indeno(1,2,3-cd)pyrene	630		170	µg/Kg-dry	1	6/11/2013 01:13 AM
Isophorone	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Isosafrole	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Methapyrilene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Methyl methanesulfonate	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Naphthalene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-3-53013

Lab ID: 1305701-06

Collection Date: 5/30/2013 04:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
N-Nitrosodiethylamine	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
N-Nitrosodimethylamine	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
N-Nitroso-di-n-butylamine	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
N-Nitrosodi-n-propylamine	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
N-Nitrosomethylethylamine	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
N-Nitrosomorpholine	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
N-Nitrosopiperidine	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
N-Nitrosopyrrolidine	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
o-Toluidine	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
p-Dimethylaminoazobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Pentachlorobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Pentachloroethane	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Pentachloronitrobenzene	ND		740	µg/Kg-dry	1	6/11/2013 01:13 AM
Pentachlorophenol	ND		1,900	µg/Kg-dry	1	6/11/2013 01:13 AM
Phenacetin	ND		740	µg/Kg-dry	1	6/11/2013 01:13 AM
Phenanthrene	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Phenol	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Pyrene	1,700		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Pyridine	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
Safrole	ND		370	µg/Kg-dry	1	6/11/2013 01:13 AM
<i>Surr: 2,4,6-Tribromophenol</i>	83.8		18-115	%REC	1	6/11/2013 01:13 AM
<i>Surr: 2-Fluorobiphenyl</i>	72.2		30-116	%REC	1	6/11/2013 01:13 AM
<i>Surr: 2-Fluorophenol</i>	57.4		24-105	%REC	1	6/11/2013 01:13 AM
<i>Surr: 4-Terphenyl-d14</i>	61.3		40-127	%REC	1	6/11/2013 01:13 AM
<i>Surr: Nitrobenzene-d5</i>	71.8		32-106	%REC	1	6/11/2013 01:13 AM
<i>Surr: Phenol-d5</i>	68.4		39-123	%REC	1	6/11/2013 01:13 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 6/6/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
1,1,1-Trichloroethane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
1,1,2,2-Tetrachloroethane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
1,1,2-Trichloroethane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
1,1-Dichloroethane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
1,1-Dichloroethene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
1,1-Dichloropropene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
1,2,3-Trichlorobenzene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
1,2,3-Trichloropropane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
1,2,4-Trichlorobenzene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
1,2,4-Trimethylbenzene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
1,2-Dibromo-3-chloropropane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-3-53013

Lab ID: 1305701-06

Collection Date: 5/30/2013 04:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
1,2-Dichlorobenzene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
1,2-Dichloroethane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
1,2-Dichloropropane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
1,3,5-Trimethylbenzene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
1,3-Dichlorobenzene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
1,3-Dichloropropane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
1,4-Dichlorobenzene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
2,2-Dichloropropane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
2-Butanone	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
2-Chlorotoluene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
2-Hexanone	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
4-Chlorotoluene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
4-Methyl-2-pentanone	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Acetone	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Benzene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Bromobenzene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Bromochloromethane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Bromodichloromethane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Bromoform	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Bromomethane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Carbon disulfide	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Carbon tetrachloride	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Chlorobenzene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Chloroethane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Chloroform	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Chloromethane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
cis-1,2-Dichloroethene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
cis-1,3-Dichloropropene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Dibromochloromethane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Dibromomethane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Dichlorodifluoromethane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Ethylbenzene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Hexachlorobutadiene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Isopropylbenzene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
m,p-Xylene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Methyl tert-butyl ether	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Methylene chloride	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Naphthalene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
n-Butylbenzene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-3-53013

Lab ID: 1305701-06

Collection Date: 5/30/2013 04:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
o-Xylene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
p-Isopropyltoluene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
sec-Butylbenzene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Styrene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
tert-Butylbenzene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Tetrachloroethene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Toluene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
trans-1,2-Dichloroethene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
trans-1,3-Dichloropropene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Trichloroethene	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Trichlorofluoromethane	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Vinyl chloride	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Xylenes, Total	ND		5.3	µg/Kg-dry	1	6/6/2013 04:02 PM
Surr: 4-Bromofluorobenzene	88.1		62.7-159	%REC	1	6/6/2013 04:02 PM
Surr: Dibromofluoromethane	91.7		88.2-133	%REC	1	6/6/2013 04:02 PM
Surr: Toluene-d8	93.8		81.5-110	%REC	1	6/6/2013 04:02 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-4-53013

Lab ID: 1305701-07

Collection Date: 5/30/2013 04:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/10/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	6/12/2013
Aroclor 1221	ND		0.22	mg/Kg-dry	1	6/12/2013
Aroclor 1232	ND		0.11	mg/Kg-dry	1	6/12/2013
Aroclor 1242	ND		0.11	mg/Kg-dry	1	6/12/2013
Aroclor 1248	ND		0.11	mg/Kg-dry	1	6/12/2013
Aroclor 1254	ND		0.11	mg/Kg-dry	1	6/12/2013
Aroclor 1260	ND		0.11	mg/Kg-dry	1	6/12/2013
Surr: Decachlorobiphenyl	81.2		22-156	%REC	1	6/12/2013
Surr: Tetrachloro-m-xylene	99.8		34-145	%REC	1	6/12/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	10		0.010	% of sample	1	6/3/2013
MERCURY BY CVAA			SW7471A		Prep Date: 6/1/2013	Analyst: SLW
Mercury	ND		0.33	mg/Kg-dry	1	6/3/2013 06:59 PM
METALS BY ICP			SW6010B		Prep Date: 6/3/2013	Analyst: VAW
Aluminum	5,500		550	mg/Kg-dry	1	6/3/2013 08:26 PM
Antimony	ND		3.3	mg/Kg-dry	1	6/3/2013 08:26 PM
Arsenic	8.1		5.5	mg/Kg-dry	1	6/3/2013 08:26 PM
Barium	36		11	mg/Kg-dry	1	6/3/2013 08:26 PM
Beryllium	0.35		0.022	mg/Kg-dry	1	6/3/2013 08:26 PM
Cadmium	ND		1.1	mg/Kg-dry	1	6/3/2013 08:26 PM
Calcium	8,600		550	mg/Kg-dry	1	6/3/2013 08:26 PM
Chromium	8.8		2.2	mg/Kg-dry	1	6/3/2013 08:26 PM
Cobalt	ND		5.5	mg/Kg-dry	1	6/3/2013 08:26 PM
Copper	17		5.5	mg/Kg-dry	1	6/3/2013 08:26 PM
Iron	14,000		110	mg/Kg-dry	1	6/3/2013 08:26 PM
Lead	220		5.5	mg/Kg-dry	1	6/3/2013 08:26 PM
Magnesium	3,000		110	mg/Kg-dry	1	6/3/2013 08:26 PM
Manganese	230		5.5	mg/Kg-dry	1	6/3/2013 08:26 PM
Nickel	13		5.5	mg/Kg-dry	1	6/3/2013 08:26 PM
Potassium	770		550	mg/Kg-dry	1	6/3/2013 08:26 PM
Selenium	ND		3.3	mg/Kg-dry	1	6/3/2013 08:26 PM
Silver	ND		1.1	mg/Kg-dry	1	6/3/2013 08:26 PM
Sodium	ND		550	mg/Kg-dry	1	6/3/2013 08:26 PM
Thallium	ND		3.3	mg/Kg-dry	1	6/3/2013 08:26 PM
Vanadium	13		5.5	mg/Kg-dry	1	6/3/2013 08:26 PM
Zinc	190		5.5	mg/Kg-dry	1	6/3/2013 08:26 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/5/2013	Analyst: Microb

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-4-53013

Lab ID: 1305701-07

Collection Date: 5/30/2013 04:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		1.7	µg/Kg	1	6/18/2013 04:26 AM
4,4'-DDE	17		1.7	µg/Kg	1	6/18/2013 04:26 AM
4,4'-DDT	10		1.7	µg/Kg	1	6/18/2013 04:26 AM
Aldrin	ND		1.7	µg/Kg	1	6/18/2013 04:26 AM
alpha-BHC	ND		1.7	µg/Kg	1	6/18/2013 04:26 AM
alpha-Chlordane	ND		1.7	µg/Kg	1	6/18/2013 04:26 AM
beta-BHC	ND		1.7	µg/Kg	1	6/18/2013 04:26 AM
delta-BHC	ND		1.7	µg/Kg	1	6/18/2013 04:26 AM
Dieldrin	ND		1.7	µg/Kg	1	6/18/2013 04:26 AM
Endosulfan I	ND		1.7	µg/Kg	1	6/18/2013 04:26 AM
Endosulfan II	ND		1.7	µg/Kg	1	6/18/2013 04:26 AM
Endosulfan sulfate	ND		1.7	µg/Kg	1	6/18/2013 04:26 AM
Endrin	ND		1.7	µg/Kg	1	6/18/2013 04:26 AM
Endrin aldehyde	ND		1.7	µg/Kg	1	6/18/2013 04:26 AM
Endrin ketone	ND		1.7	µg/Kg	1	6/18/2013 04:26 AM
gamma-BHC (Lindane)	ND		1.7	µg/Kg	1	6/18/2013 04:26 AM
gamma-Chlordane	ND		1.7	µg/Kg	1	6/18/2013 04:26 AM
Heptachlor	ND		1.7	µg/Kg	1	6/18/2013 04:26 AM
Heptachlor epoxide	ND		1.7	µg/Kg	1	6/18/2013 04:26 AM
Methoxychlor	ND		1.7	µg/Kg	1	6/18/2013 04:26 AM
Toxaphene	ND		34	µg/Kg	1	6/18/2013 04:26 AM
<i>Surr: Decachlorobiphenyl</i>	85.6		33-143	%REC	1	6/18/2013 04:26 AM
<i>Surr: Tetrachloro-m-xylene</i>	58.6		39-130	%REC	1	6/18/2013 04:26 AM
HERBICIDES			SW8151		Prep Date: 6/5/2013	Analyst: Microb
2,4,5-T	ND		0.0048	mg/Kg	1	6/11/2013 03:00 AM
2,4,5-TP (Silvex)	ND		0.0036	mg/Kg	1	6/11/2013 03:00 AM
2,4-D	ND		0.048	mg/Kg	1	6/11/2013 03:00 AM
2,4-DB	ND		0.048	mg/Kg	1	6/11/2013 03:00 AM
Dalapon	ND		0.12	mg/Kg	1	6/11/2013 03:00 AM
Dicamba	ND		0.0048	mg/Kg	1	6/11/2013 03:00 AM
Dichlorprop	ND		0.048	mg/Kg	1	6/11/2013 03:00 AM
Dinoseb	ND		0.024	mg/Kg	1	6/11/2013 03:00 AM
MCPA	ND		4.8	mg/Kg	1	6/11/2013 03:00 AM
MCPP	ND		4.8	mg/Kg	1	6/11/2013 03:00 AM
Pentachlorophenol	ND		0.0048	mg/Kg	1	6/11/2013 03:00 AM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	104		25-110	%REC	1	6/11/2013 03:00 AM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 6/7/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
1,2,4-Trichlorobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-4-53013

Lab ID: 1305701-07

Collection Date: 5/30/2013 04:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
1,3-Dichlorobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
1,3-Dinitrobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
1,4-Dichlorobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
1-Methylnaphthalene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
1-Naphthylamine	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
2,3,4,6-Tetrachlorophenol	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
2,4,5-Trichlorophenol	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
2,4,6-Trichlorophenol	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
2,4-Dichlorophenol	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
2,4-Dimethylphenol	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
2,4-Dinitrophenol	ND		1,800	µg/Kg-dry	1	6/11/2013 01:45 AM
2,4-Dinitrotoluene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
2,6-Dichlorophenol	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
2,6-Dinitrotoluene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
2-Acetylaminofluorene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
2-Chloronaphthalene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
2-Chlorophenol	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
2-Methylnaphthalene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
2-Methylphenol	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
2-Naphthylamine	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
2-Nitroaniline	ND		1,800	µg/Kg-dry	1	6/11/2013 01:45 AM
2-Nitrophenol	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
2-Picoline	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
3&4-Methylphenol	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
3,3'-Dichlorobenzidine	ND		730	µg/Kg-dry	1	6/11/2013 01:45 AM
3-Methylcholanthrene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
3-Nitroaniline	ND		1,800	µg/Kg-dry	1	6/11/2013 01:45 AM
4,6-Dinitro-2-methylphenol	ND		1,800	µg/Kg-dry	1	6/11/2013 01:45 AM
4-Aminobiphenyl	ND		730	µg/Kg-dry	1	6/11/2013 01:45 AM
4-Bromophenyl phenyl ether	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
4-Chloro-3-methylphenol	ND		730	µg/Kg-dry	1	6/11/2013 01:45 AM
4-Chloroaniline	ND		730	µg/Kg-dry	1	6/11/2013 01:45 AM
4-Chlorophenyl phenyl ether	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
4-Nitroaniline	ND		730	µg/Kg-dry	1	6/11/2013 01:45 AM
4-Nitrophenol	ND		1,800	µg/Kg-dry	1	6/11/2013 01:45 AM
4-Nitroquinoline 1-oxide	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
5-Nitro-o-toluidine	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
7,12-Dimethylbenz(a)anthracene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Acenaphthene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-4-53013

Lab ID: 1305701-07

Collection Date: 5/30/2013 04:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Acetophenone	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Aniline	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Anthracene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Azobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Benzidine	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Benzo(a)anthracene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Benzo(a)pyrene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Benzo(b)fluoranthene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Benzo(g,h,i)perylene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Benzo(k)fluoranthene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Benzyl alcohol	ND		730	µg/Kg-dry	1	6/11/2013 01:45 AM
Bis(2-chloroethoxy)methane	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Bis(2-chloroethyl)ether	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Bis(2-chloroisopropyl)ether	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Bis(2-ethylhexyl)phthalate	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Butyl benzyl phthalate	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Carbazole	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Chrysene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Dibenzo(a,h)anthracene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Dibenzofuran	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Diethyl phthalate	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Dimethyl phthalate	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Di-n-butyl phthalate	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Di-n-octyl phthalate	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Dinoseb	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Diphenylamine	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Ethyl methanesulfonate	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Fluoranthene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Fluorene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Hexachlorobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Hexachlorobutadiene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Hexachlorocyclopentadiene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Hexachloroethane	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Indeno(1,2,3-cd)pyrene	ND		170	µg/Kg-dry	1	6/11/2013 01:45 AM
Isophorone	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Isosafrole	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Methapyrilene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Methyl methanesulfonate	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Naphthalene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-4-53013

Lab ID: 1305701-07

Collection Date: 5/30/2013 04:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
N-Nitrosodiethylamine	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
N-Nitrosodimethylamine	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
N-Nitroso-di-n-butylamine	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
N-Nitrosodi-n-propylamine	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
N-Nitrosomethylethylamine	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
N-Nitrosomorpholine	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
N-Nitrosopiperidine	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
N-Nitrosopyrrolidine	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
o-Toluidine	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
p-Dimethylaminoazobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Pentachlorobenzene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Pentachloroethane	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Pentachloronitrobenzene	ND		730	µg/Kg-dry	1	6/11/2013 01:45 AM
Pentachlorophenol	ND		1,800	µg/Kg-dry	1	6/11/2013 01:45 AM
Phenacetin	ND		730	µg/Kg-dry	1	6/11/2013 01:45 AM
Phenanthrene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Phenol	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Pyrene	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Pyridine	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
Safrole	ND		370	µg/Kg-dry	1	6/11/2013 01:45 AM
<i>Surr: 2,4,6-Tribromophenol</i>	<i>85.4</i>		<i>18-115</i>	<i>%REC</i>	<i>1</i>	<i>6/11/2013 01:45 AM</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>72.5</i>		<i>30-116</i>	<i>%REC</i>	<i>1</i>	<i>6/11/2013 01:45 AM</i>
<i>Surr: 2-Fluorophenol</i>	<i>55.8</i>		<i>24-105</i>	<i>%REC</i>	<i>1</i>	<i>6/11/2013 01:45 AM</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>69.8</i>		<i>40-127</i>	<i>%REC</i>	<i>1</i>	<i>6/11/2013 01:45 AM</i>
<i>Surr: Nitrobenzene-d5</i>	<i>76.8</i>		<i>32-106</i>	<i>%REC</i>	<i>1</i>	<i>6/11/2013 01:45 AM</i>
<i>Surr: Phenol-d5</i>	<i>70.5</i>		<i>39-123</i>	<i>%REC</i>	<i>1</i>	<i>6/11/2013 01:45 AM</i>

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 6/6/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
1,1,1-Trichloroethane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
1,1,2,2-Tetrachloroethane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
1,1,2-Trichloroethane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
1,1-Dichloroethane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
1,1-Dichloroethene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
1,1-Dichloropropene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
1,2,3-Trichlorobenzene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
1,2,3-Trichloropropane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
1,2,4-Trichlorobenzene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
1,2,4-Trimethylbenzene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
1,2-Dibromo-3-chloropropane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-4-53013

Lab ID: 1305701-07

Collection Date: 5/30/2013 04:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
1,2-Dichlorobenzene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
1,2-Dichloroethane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
1,2-Dichloropropane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
1,3,5-Trimethylbenzene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
1,3-Dichlorobenzene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
1,3-Dichloropropane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
1,4-Dichlorobenzene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
2,2-Dichloropropane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
2-Butanone	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
2-Chlorotoluene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
2-Hexanone	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
4-Chlorotoluene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
4-Methyl-2-pentanone	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Acetone	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Benzene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Bromobenzene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Bromochloromethane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Bromodichloromethane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Bromoform	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Bromomethane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Carbon disulfide	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Carbon tetrachloride	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Chlorobenzene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Chloroethane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Chloroform	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Chloromethane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
cis-1,2-Dichloroethene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
cis-1,3-Dichloropropene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Dibromochloromethane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Dibromomethane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Dichlorodifluoromethane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Ethylbenzene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Hexachlorobutadiene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Isopropylbenzene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
m,p-Xylene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Methyl tert-butyl ether	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Methylene chloride	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Naphthalene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
n-Butylbenzene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-4-53013

Lab ID: 1305701-07

Collection Date: 5/30/2013 04:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
o-Xylene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
p-Isopropyltoluene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
sec-Butylbenzene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Styrene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
tert-Butylbenzene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Tetrachloroethene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Toluene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
trans-1,2-Dichloroethene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
trans-1,3-Dichloropropene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Trichloroethene	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Trichlorofluoromethane	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Vinyl chloride	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Xylenes, Total	ND		5.1	µg/Kg-dry	1	6/6/2013 04:33 PM
Surr: 4-Bromofluorobenzene	93.8		62.7-159	%REC	1	6/6/2013 04:33 PM
Surr: Dibromofluoromethane	102		88.2-133	%REC	1	6/6/2013 04:33 PM
Surr: Toluene-d8	96.2		81.5-110	%REC	1	6/6/2013 04:33 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-9-53013

Lab ID: 1305701-08

Collection Date: 5/30/2013 06:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 6/10/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	6/12/2013
Aroclor 1221	ND		0.24	mg/Kg-dry	1	6/12/2013
Aroclor 1232	ND		0.12	mg/Kg-dry	1	6/12/2013
Aroclor 1242	ND		0.12	mg/Kg-dry	1	6/12/2013
Aroclor 1248	ND		0.12	mg/Kg-dry	1	6/12/2013
Aroclor 1254	0.28		0.12	mg/Kg-dry	1	6/12/2013
Aroclor 1260	ND		0.12	mg/Kg-dry	1	6/12/2013
Surr: Decachlorobiphenyl	79.8		22-156	%REC	1	6/12/2013
Surr: Tetrachloro-m-xylene	97.2		34-145	%REC	1	6/12/2013
MOISTURE			SM2540B		Prep Date: 5/31/2013	Analyst: CTS
Moisture	18		0.010	% of sample	1	6/3/2013
MERCURY BY CVAA			SW7471A		Prep Date: 6/1/2013	Analyst: SLW
Mercury	ND		0.34	mg/Kg-dry	1	6/3/2013 07:01 PM
METALS BY ICP			SW6010B		Prep Date: 6/3/2013	Analyst: VAW
Aluminum	9,600		600	mg/Kg-dry	1	6/3/2013 08:32 PM
Antimony	ND		3.6	mg/Kg-dry	1	6/3/2013 08:32 PM
Arsenic	8.2		6.0	mg/Kg-dry	1	6/3/2013 08:32 PM
Barium	92		12	mg/Kg-dry	1	6/3/2013 08:32 PM
Beryllium	0.49		0.024	mg/Kg-dry	1	6/3/2013 08:32 PM
Cadmium	ND		1.2	mg/Kg-dry	1	6/3/2013 08:32 PM
Calcium	28,000		600	mg/Kg-dry	1	6/3/2013 08:32 PM
Chromium	20		2.4	mg/Kg-dry	1	6/3/2013 08:32 PM
Cobalt	8.7		6.0	mg/Kg-dry	1	6/3/2013 08:32 PM
Copper	170		6.0	mg/Kg-dry	1	6/3/2013 08:32 PM
Iron	20,000		120	mg/Kg-dry	1	6/3/2013 08:32 PM
Lead	100		6.0	mg/Kg-dry	1	6/3/2013 08:32 PM
Magnesium	11,000		120	mg/Kg-dry	1	6/3/2013 08:32 PM
Manganese	330		6.0	mg/Kg-dry	1	6/3/2013 08:32 PM
Nickel	22		6.0	mg/Kg-dry	1	6/3/2013 08:32 PM
Potassium	1,500		600	mg/Kg-dry	1	6/3/2013 08:32 PM
Selenium	ND		3.6	mg/Kg-dry	1	6/3/2013 08:32 PM
Silver	ND		1.2	mg/Kg-dry	1	6/3/2013 08:32 PM
Sodium	ND		600	mg/Kg-dry	1	6/3/2013 08:32 PM
Thallium	ND		3.6	mg/Kg-dry	1	6/3/2013 08:32 PM
Vanadium	19		6.0	mg/Kg-dry	1	6/3/2013 08:32 PM
Zinc	120		6.0	mg/Kg-dry	1	6/3/2013 08:32 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/5/2013	Analyst: Microb

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-9-53013

Lab ID: 1305701-08

Collection Date: 5/30/2013 06:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		19	µg/Kg	1	6/18/2013 04:53 AM
4,4'-DDE	24		19	µg/Kg	1	6/18/2013 04:53 AM
4,4'-DDT	57		19	µg/Kg	1	6/18/2013 04:53 AM
Aldrin	ND		19	µg/Kg	1	6/18/2013 04:53 AM
alpha-BHC	ND		19	µg/Kg	1	6/18/2013 04:53 AM
alpha-Chlordane	ND		19	µg/Kg	1	6/18/2013 04:53 AM
beta-BHC	ND		19	µg/Kg	1	6/18/2013 04:53 AM
delta-BHC	ND		19	µg/Kg	1	6/18/2013 04:53 AM
Dieldrin	ND		19	µg/Kg	1	6/18/2013 04:53 AM
Endosulfan I	ND		19	µg/Kg	1	6/18/2013 04:53 AM
Endosulfan II	ND		19	µg/Kg	1	6/18/2013 04:53 AM
Endosulfan sulfate	ND		19	µg/Kg	1	6/18/2013 04:53 AM
Endrin	ND		19	µg/Kg	1	6/18/2013 04:53 AM
Endrin aldehyde	ND		19	µg/Kg	1	6/18/2013 04:53 AM
Endrin ketone	ND		19	µg/Kg	1	6/18/2013 04:53 AM
gamma-BHC (Lindane)	ND		19	µg/Kg	1	6/18/2013 04:53 AM
gamma-Chlordane	22		19	µg/Kg	1	6/18/2013 04:53 AM
Heptachlor	ND		19	µg/Kg	1	6/18/2013 04:53 AM
Heptachlor epoxide	ND		19	µg/Kg	1	6/18/2013 04:53 AM
Methoxychlor	ND		19	µg/Kg	1	6/18/2013 04:53 AM
Toxaphene	ND		190	µg/Kg	1	6/18/2013 04:53 AM
Surr: Decachlorobiphenyl	0		33-143	%REC	1	6/18/2013 04:53 AM
Surr: Tetrachloro-m-xylene	0		39-130	%REC	1	6/18/2013 04:53 AM
HERBICIDES			SW8151		Prep Date: 6/5/2013	Analyst: Microb
2,4,5-T	ND		0.049	mg/Kg	1	6/11/2013 07:46 AM
2,4,5-TP (Silvex)	ND		0.037	mg/Kg	1	6/11/2013 07:46 AM
2,4-D	ND		0.49	mg/Kg	1	6/11/2013 07:46 AM
2,4-DB	ND		0.49	mg/Kg	1	6/11/2013 07:46 AM
Dalapon	ND		1.2	mg/Kg	1	6/11/2013 07:46 AM
Dicamba	ND		0.049	mg/Kg	1	6/11/2013 07:46 AM
Dichlorprop	ND		0.49	mg/Kg	1	6/11/2013 07:46 AM
Dinoseb	ND		0.25	mg/Kg	1	6/11/2013 07:46 AM
MCPA	ND		49	mg/Kg	1	6/11/2013 07:46 AM
MCPP	ND		49	mg/Kg	1	6/11/2013 07:46 AM
Pentachlorophenol	ND		0.049	mg/Kg	1	6/11/2013 07:46 AM
Surr: 2,4-Dichlorophenylacetic acid	0		25-110	%REC	1	6/11/2013 07:46 AM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 6/7/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
1,2,4-Trichlorobenzene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-9-53013

Lab ID: 1305701-08

Collection Date: 5/30/2013 06:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
1,3-Dichlorobenzene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
1,3-Dinitrobenzene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
1,4-Dichlorobenzene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
1-Methylnaphthalene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
1-Naphthylamine	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
2,3,4,6-Tetrachlorophenol	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
2,4,5-Trichlorophenol	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
2,4,6-Trichlorophenol	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
2,4-Dichlorophenol	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
2,4-Dimethylphenol	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
2,4-Dinitrophenol	ND		2,000	µg/Kg-dry	1	6/11/2013 02:18 AM
2,4-Dinitrotoluene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
2,6-Dichlorophenol	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
2,6-Dinitrotoluene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
2-Acetylaminofluorene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
2-Chloronaphthalene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
2-Chlorophenol	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
2-Methylnaphthalene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
2-Methylphenol	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
2-Naphthylamine	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
2-Nitroaniline	ND		2,000	µg/Kg-dry	1	6/11/2013 02:18 AM
2-Nitrophenol	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
2-Picoline	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
3&4-Methylphenol	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
3,3'-Dichlorobenzidine	ND		800	µg/Kg-dry	1	6/11/2013 02:18 AM
3-Methylcholanthrene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
3-Nitroaniline	ND		2,000	µg/Kg-dry	1	6/11/2013 02:18 AM
4,6-Dinitro-2-methylphenol	ND		2,000	µg/Kg-dry	1	6/11/2013 02:18 AM
4-Aminobiphenyl	ND		800	µg/Kg-dry	1	6/11/2013 02:18 AM
4-Bromophenyl phenyl ether	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
4-Chloro-3-methylphenol	ND		800	µg/Kg-dry	1	6/11/2013 02:18 AM
4-Chloroaniline	ND		800	µg/Kg-dry	1	6/11/2013 02:18 AM
4-Chlorophenyl phenyl ether	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
4-Nitroaniline	ND		800	µg/Kg-dry	1	6/11/2013 02:18 AM
4-Nitrophenol	ND		2,000	µg/Kg-dry	1	6/11/2013 02:18 AM
4-Nitroquinoline 1-oxide	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
5-Nitro-o-toluidine	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
7,12-Dimethylbenz(a)anthracene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Acenaphthene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-9-53013

Lab ID: 1305701-08

Collection Date: 5/30/2013 06:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Acetophenone	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Aniline	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Anthracene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Azobenzene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Benzidine	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Benzo(a)anthracene	420		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Benzo(a)pyrene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Benzo(b)fluoranthene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Benzo(g,h,i)perylene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Benzo(k)fluoranthene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Benzyl alcohol	ND		800	µg/Kg-dry	1	6/11/2013 02:18 AM
Bis(2-chloroethoxy)methane	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Bis(2-chloroethyl)ether	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Bis(2-chloroisopropyl)ether	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Bis(2-ethylhexyl)phthalate	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Butyl benzyl phthalate	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Carbazole	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Chrysene	470		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Dibenzo(a,h)anthracene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Dibenzofuran	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Diethyl phthalate	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Dimethyl phthalate	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Di-n-butyl phthalate	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Di-n-octyl phthalate	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Dinoseb	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Diphenylamine	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Ethyl methanesulfonate	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Fluoranthene	490		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Fluorene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Hexachlorobenzene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Hexachlorobutadiene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Hexachlorocyclopentadiene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Hexachloroethane	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Indeno(1,2,3-cd)pyrene	ND		180	µg/Kg-dry	1	6/11/2013 02:18 AM
Isophorone	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Isosafrole	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Methapyrilene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Methyl methanesulfonate	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Naphthalene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-9-53013

Lab ID: 1305701-08

Collection Date: 5/30/2013 06:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
N-Nitrosodiethylamine	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
N-Nitrosodimethylamine	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
N-Nitroso-di-n-butylamine	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
N-Nitrosodi-n-propylamine	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
N-Nitrosomethylethylamine	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
N-Nitrosomorpholine	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
N-Nitrosopiperidine	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
N-Nitrosopyrrolidine	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
o-Toluidine	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
p-Dimethylaminoazobenzene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Pentachlorobenzene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Pentachloroethane	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Pentachloronitrobenzene	ND		800	µg/Kg-dry	1	6/11/2013 02:18 AM
Pentachlorophenol	ND		2,000	µg/Kg-dry	1	6/11/2013 02:18 AM
Phenacetin	ND		800	µg/Kg-dry	1	6/11/2013 02:18 AM
Phenanthrene	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Phenol	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Pyrene	410		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Pyridine	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
Safrole	ND		400	µg/Kg-dry	1	6/11/2013 02:18 AM
<i>Surr: 2,4,6-Tribromophenol</i>	<i>78.8</i>		<i>18-115</i>	<i>%REC</i>	1	6/11/2013 02:18 AM
<i>Surr: 2-Fluorobiphenyl</i>	<i>70.2</i>		<i>30-116</i>	<i>%REC</i>	1	6/11/2013 02:18 AM
<i>Surr: 2-Fluorophenol</i>	<i>54.4</i>		<i>24-105</i>	<i>%REC</i>	1	6/11/2013 02:18 AM
<i>Surr: 4-Terphenyl-d14</i>	<i>65.0</i>		<i>40-127</i>	<i>%REC</i>	1	6/11/2013 02:18 AM
<i>Surr: Nitrobenzene-d5</i>	<i>70.5</i>		<i>32-106</i>	<i>%REC</i>	1	6/11/2013 02:18 AM
<i>Surr: Phenol-d5</i>	<i>66.5</i>		<i>39-123</i>	<i>%REC</i>	1	6/11/2013 02:18 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 6/6/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
1,1,1-Trichloroethane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
1,1,2,2-Tetrachloroethane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
1,1,2-Trichloroethane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
1,1-Dichloroethane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
1,1-Dichloroethene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
1,1-Dichloropropene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
1,2,3-Trichlorobenzene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
1,2,3-Trichloropropane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
1,2,4-Trichlorobenzene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
1,2,4-Trimethylbenzene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
1,2-Dibromo-3-chloropropane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-9-53013

Lab ID: 1305701-08

Collection Date: 5/30/2013 06:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
1,2-Dichlorobenzene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
1,2-Dichloroethane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
1,2-Dichloropropane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
1,3,5-Trimethylbenzene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
1,3-Dichlorobenzene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
1,3-Dichloropropane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
1,4-Dichlorobenzene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
2,2-Dichloropropane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
2-Butanone	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
2-Chlorotoluene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
2-Hexanone	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
4-Chlorotoluene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
4-Methyl-2-pentanone	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Acetone	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Benzene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Bromobenzene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Bromochloromethane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Bromodichloromethane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Bromoform	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Bromomethane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Carbon disulfide	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Carbon tetrachloride	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Chlorobenzene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Chloroethane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Chloroform	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Chloromethane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
cis-1,2-Dichloroethene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
cis-1,3-Dichloropropene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Dibromochloromethane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Dibromomethane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Dichlorodifluoromethane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Ethylbenzene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Hexachlorobutadiene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Isopropylbenzene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
m,p-Xylene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Methyl tert-butyl ether	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Methylene chloride	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Naphthalene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
n-Butylbenzene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM

Note:

ALS Environmental

Date: 20-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305701

Sample ID: TT-9-53013

Lab ID: 1305701-08

Collection Date: 5/30/2013 06:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
o-Xylene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
p-Isopropyltoluene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
sec-Butylbenzene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Styrene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
tert-Butylbenzene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Tetrachloroethene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Toluene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
trans-1,2-Dichloroethene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
trans-1,3-Dichloropropene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Trichloroethene	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Trichlorofluoromethane	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Vinyl chloride	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Xylenes, Total	ND		5.9	µg/Kg-dry	1	6/6/2013 05:04 PM
Surr: 4-Bromofluorobenzene	96.1		62.7-159	%REC	1	6/6/2013 05:04 PM
Surr: Dibromofluoromethane	99.7		88.2-133	%REC	1	6/6/2013 05:04 PM
Surr: Toluene-d8	96.7		81.5-110	%REC	1	6/6/2013 05:04 PM

Note:

Client: AECOM

QC BATCH REPORT

Work Order: 1305701

Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

Batch ID: 17088

Instrument ID: GC9

Method: SW8082

MBLK		Sample ID: MBLK-17088-17088			Units: mg/Kg		Analysis Date: 6/11/2013			
Client ID:		Run ID: GC9_130611A			SeqNo: 625396		Prep Date: 6/10/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.0782	0	0.1	0	78.2	22-156	0			
Surr: Tetrachloro-m-xylene	0.0914	0	0.1	0	91.4	34-145	0			

LCS		Sample ID: LCS-17088-17088			Units: mg/Kg		Analysis Date: 6/11/2013			
Client ID:		Run ID: GC9_130611A			SeqNo: 625397		Prep Date: 6/10/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.729	0.10	2	0	86.4	50-133	0			
Surr: Decachlorobiphenyl	0.0862	0	0.1	0	86.2	22-156	0			
Surr: Tetrachloro-m-xylene	0.1014	0	0.1	0	101	34-145	0			

MS		Sample ID: 1306028-01B MS			Units: mg/Kg		Analysis Date: 6/11/2013			
Client ID:		Run ID: GC9_130611A			SeqNo: 625399		Prep Date: 6/10/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.668	0.10	2.012	0	82.9	31-150	0			
Surr: Decachlorobiphenyl	0.08451	0	0.1006	0	84	22-156	0			
Surr: Tetrachloro-m-xylene	0.09899	0	0.1006	0	98.4	34-145	0			

MSD		Sample ID: 1306028-01B MSD			Units: mg/Kg		Analysis Date: 6/11/2013			
Client ID:		Run ID: GC9_130611A			SeqNo: 625400		Prep Date: 6/10/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.681	0.10	2.012	0	83.6	31-150	1.668	0.817	53	
Surr: Decachlorobiphenyl	0.0837	0	0.1006	0	83.2	22-156	0.08451	0.957		
Surr: Tetrachloro-m-xylene	0.09839	0	0.1006	0	97.8	34-145	0.09899	0.612		

The following samples were analyzed in this batch:

1305701-01E	1305701-02E	1305701-03E
1305701-04E	1305701-05E	1305701-06E
1305701-07E	1305701-08E	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305701
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16956 Instrument ID: HG1 Method: SW7471A

MBLK	Sample ID: MBLK-16956-16956					Units: mg/Kg	Analysis Date: 6/3/2013 06:11 PM			
Client ID:	Run ID: HG1_130603C					SeqNo: 619755	Prep Date: 6/1/2013	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.30

LCS	Sample ID: LCS-16956-16956					Units: mg/Kg	Analysis Date: 6/3/2013 06:07 PM			
Client ID:	Run ID: HG1_130603C					SeqNo: 619753	Prep Date: 6/1/2013	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 1.15 0.30 1.104 0 104 69-147 0

LCSD	Sample ID: LCSD-16956-16956					Units: mg/Kg	Analysis Date: 6/3/2013 06:09 PM			
Client ID:	Run ID: HG1_130603C					SeqNo: 619754	Prep Date: 6/1/2013	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 1.126 0.30 1.117 0 101 69-147 1.15 2.12 20

MS	Sample ID: 1305701-04D MS					Units: mg/Kg	Analysis Date: 6/3/2013 06:46 PM			
Client ID: TT-1-53013	Run ID: HG1_130603C					SeqNo: 619770	Prep Date: 6/1/2013	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 1.041 0.30 0.8322 0.5132 63.4 69-147 0 S

MSD	Sample ID: 1305701-04D MSD					Units: mg/Kg	Analysis Date: 6/3/2013 06:48 PM			
Client ID: TT-1-53013	Run ID: HG1_130603C					SeqNo: 619771	Prep Date: 6/1/2013	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 1.063 0.29 0.8183 0.5132 67.1 69-147 1.041 2.08 20 S

The following samples were analyzed in this batch:

1305701-01D	1305701-02D	1305701-03D
1305701-04D	1305701-05D	1305701-06D
1305701-07D	1305701-08D	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305701
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16962** Instrument ID: **ICP3** Method: **SW6010B**

MBLK	Sample ID: mblk-16962-16962			Units: mg/Kg		Analysis Date: 6/3/2013 06:54 PM				
Client ID:	Run ID: ICP3_130603B			SeqNo: 619932		Prep Date: 6/3/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500								
Antimony	ND	3.0								
Arsenic	ND	5.0								
Barium	ND	10								
Beryllium	ND	0.50								
Cadmium	ND	1.0								
Calcium	ND	500								
Chromium	ND	2.0								
Cobalt	ND	5.0								
Copper	ND	5.0								
Iron	ND	100								
Lead	ND	5.0								
Magnesium	ND	100								
Manganese	ND	5.0								
Nickel	ND	5.0								
Potassium	ND	500								
Selenium	ND	3.0								
Silver	ND	1.0								
Sodium	ND	500								
Thallium	ND	3.0								
Vanadium	ND	5.0								
Zinc	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305701
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16962** Instrument ID: **ICP3** Method: **SW6010B**

LCS		Sample ID: ics-16962-16962			Units: mg/Kg		Analysis Date: 6/3/2013 07:00 PM			
Client ID:		Run ID: ICP3_130603B			SeqNo: 619933		Prep Date: 6/3/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500	100	0	104	80-120	0			
Antimony	99.26	3.0	100	0	99.3	80-120	0			
Arsenic	102.8	5.0	100	0	103	80-120	0			
Barium	105.4	10	100	0	105	80-120	0			
Beryllium	102.9	0.50	100	0	103	80-120	0			
Cadmium	102.2	1.0	100	0	102	80-120	0			
Calcium	ND	500	100	0	96.2	80-120	0			
Chromium	102.2	2.0	100	0	102	80-120	0			
Cobalt	101.4	5.0	100	0	101	80-120	0			
Copper	101	5.0	100	0	101	80-120	0			
Iron	102.8	100	100	0	103	80-120	0			
Lead	105.7	5.0	100	0	106	80-120	0			
Magnesium	ND	100	100	0	99.6	80-120	0			
Manganese	100.4	5.0	100	0	100	80-120	0			
Nickel	102.6	5.0	100	0	103	80-120	0			
Potassium	970.7	500	1000	0	97.1	80-120	0			
Selenium	101.1	3.0	100	0	101	80-120	0			
Silver	103.9	1.0	100	0	104	80-120	0			
Sodium	ND	500	100	0	105	80-120	0			
Thallium	104.7	3.0	100	0	105	80-120	0			
Vanadium	102.4	5.0	100	0	102	80-120	0			
Zinc	102.2	5.0	100	0	102	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305701
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16962** Instrument ID: **ICP3** Method: **SW6010B**

LCSD	Sample ID: lcsd-16962-16962			Units: mg/Kg		Analysis Date: 6/3/2013 07:06 PM				
Client ID:	Run ID: ICP3_130603B			SeqNo: 619934		Prep Date: 6/3/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500	100	0	103	80-120	103.7	0	20	
Antimony	99.69	3.0	100	0	99.7	80-120	99.26	0.432	20	
Arsenic	103.8	5.0	100	0	104	80-120	102.8	0.968	20	
Barium	106.2	10	100	0	106	80-120	105.4	0.756	20	
Beryllium	103.2	0.50	100	0	103	80-120	102.9	0.291	20	
Cadmium	102.6	1.0	100	0	103	80-120	102.2	0.391	20	
Calcium	ND	500	100	0	95.1	80-120	96.24	0	20	
Chromium	103.4	2.0	100	0	103	80-120	102.2	1.17	20	
Cobalt	102.3	5.0	100	0	102	80-120	101.4	0.884	20	
Copper	102.7	5.0	100	0	103	80-120	101	1.67	20	
Iron	100.8	100	100	0	101	80-120	102.8	1.96	20	
Lead	106.1	5.0	100	0	106	80-120	105.7	0.378	20	
Magnesium	ND	100	100	0	96.9	80-120	99.64	0	20	
Manganese	101.2	5.0	100	0	101	80-120	100.4	0.794	20	
Nickel	103.2	5.0	100	0	103	80-120	102.6	0.583	20	
Potassium	990.6	500	1000	0	99.1	80-120	970.7	2.03	20	
Selenium	101.8	3.0	100	0	102	80-120	101.1	0.69	20	
Silver	103.8	1.0	100	0	104	80-120	103.9	0.0963	20	
Sodium	ND	500	100	0	106	80-120	104.6	0	20	
Thallium	105.2	3.0	100	0	105	80-120	104.7	0.476	20	
Vanadium	100.6	5.0	100	0	101	80-120	102.4	1.77	20	
Zinc	102.9	5.0	100	0	103	80-120	102.2	0.683	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305701
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16962** Instrument ID: **ICP3** Method: **SW6010B**

MS		Sample ID: 1305701-06d ms			Units: mg/Kg		Analysis Date: 6/3/2013 08:14 PM			
Client ID: TT-3-53013		Run ID: ICP3_130603B			SeqNo: 619941		Prep Date: 6/3/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	8608	490	98.89	6427	2200	80-120	0			SO
Antimony	94.2	3.0	98.89	-0.07215	95.3	75-125	0			
Arsenic	109	4.9	98.89	7.618	102	75-125	0			
Barium	151.5	9.9	98.89	53.44	99.2	75-125	0			
Beryllium	101.7	0.49	98.89	0.3925	102	75-125	0			
Cadmium	98.81	0.99	98.89	0.1262	99.8	75-125	0			
Calcium	5365	490	98.89	8709	-3380	75-125	0			SO
Chromium	108.7	2.0	98.89	8.942	101	75-125	0			
Cobalt	100.5	4.9	98.89	5.568	96	75-125	0			
Copper	113.5	4.9	98.89	12.95	102	75-125	0			
Iron	15840	99	98.89	14390	1470	75-125	0			SO
Lead	204.9	4.9	98.89	92.09	114	75-125	0			
Magnesium	2226	99	98.89	3671	-1460	75-125	0			SO
Manganese	434.9	4.9	98.89	302	134	75-125	0			S
Nickel	107.7	4.9	98.89	11.98	96.8	75-125	0			
Potassium	1773	490	988.9	736.3	105	75-125	0			
Selenium	99.49	3.0	98.89	1.042	99.5	75-125	0			
Silver	99.58	0.99	98.89	-0.2833	101	75-125	0			
Sodium	ND	490	98.89	42.31	98.9	75-125	0			
Thallium	91.04	3.0	98.89	0.205	91.9	75-125	0			
Vanadium	117.7	4.9	98.89	14.84	104	75-125	0			
Zinc	159.9	4.9	98.89	53.36	108	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305701
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16962 Instrument ID: ICP3 Method: SW6010B

MSD		Sample ID: 1305701-06d msd			Units: mg/Kg		Analysis Date: 6/3/2013 08:20 PM			
Client ID: TT-3-53013		Run ID: ICP3_130603B			SeqNo: 619942		Prep Date: 6/3/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	8294	490	98.97	6427	1890	75-125	8608	3.71	20	SO
Antimony	93.18	3.0	98.97	-0.07215	94.2	75-125	94.2	1.08	20	
Arsenic	106.7	4.9	98.97	7.618	100	75-125	109	2.12	20	
Barium	147	9.9	98.97	53.44	94.5	75-125	151.5	3.04	20	
Beryllium	101.5	0.49	98.97	0.3925	102	75-125	101.7	0.116	20	
Cadmium	97.58	0.99	98.97	0.1262	98.5	75-125	98.81	1.26	20	
Calcium	6476	490	98.97	8709	-2260	75-125	5365	18.8	20	SO
Chromium	106	2.0	98.97	8.942	98.1	75-125	108.7	2.5	20	
Cobalt	98.86	4.9	98.97	5.568	94.3	75-125	100.5	1.62	20	
Copper	110.8	4.9	98.97	12.95	98.9	75-125	113.5	2.39	20	
Iron	16580	99	98.97	14390	2210	75-125	15840	4.53	20	SO
Lead	187.6	4.9	98.97	92.09	96.6	75-125	204.9	8.79	20	
Magnesium	2749	99	98.97	3671	-931	75-125	2226	21	20	SRO
Manganese	366.6	4.9	98.97	302	65.2	75-125	434.9	17.1	20	S
Nickel	105.9	4.9	98.97	11.98	94.9	75-125	107.7	1.68	20	
Potassium	1676	490	98.97	736.3	94.9	75-125	1773	5.66	20	
Selenium	97.11	3.0	98.97	1.042	97.1	75-125	99.49	2.42	20	
Silver	99.27	0.99	98.97	-0.2833	101	75-125	99.58	0.319	20	
Sodium	ND	490	98.97	42.31	93.1	75-125	140.1	0	20	
Thallium	91.16	3.0	98.97	0.205	91.9	75-125	91.04	0.133	20	
Vanadium	117.4	4.9	98.97	14.84	104	75-125	117.7	0.258	20	
Zinc	150	4.9	98.97	53.36	97.7	75-125	159.9	6.37	20	

The following samples were analyzed in this batch:

1305701-01d	1305701-02d	1305701-03d
1305701-04d	1305701-05d	1305701-06d
1305701-07d	1305701-08d	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305701
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99921a** Instrument ID: **SUB** Method: **SW8151**

MBLK		Sample ID: BLANK-R99921a			Units: µg/Kg		Analysis Date: 6/10/2013 11:59 PM			
Client ID:		Run ID: SUB_130612A			SeqNo: 630794		Prep Date: 6/5/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	ND	4.0								
2,4,5-TP (Silvex)	ND	3.0								
2,4-D	ND	40								
2,4-DB	ND	40								
Dalapon	ND	100								
Dicamba	ND	4.0								
Dichlorprop	ND	40								
Dinoseb	ND	20								
MCPA	ND	4,000								
MCPP	ND	4,000								
Pentachlorophenol	ND	4.0								
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	96.7	0	100	0	96.7	25-110	0			

LCS		Sample ID: lcs-R99921a			Units: µg/Kg		Analysis Date: 6/11/2013 12:25 AM			
Client ID:		Run ID: SUB_130612A			SeqNo: 630795		Prep Date: 6/5/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	8.19	4.0	10	0	81.9	25-120	0			
2,4,5-TP (Silvex)	8.38	3.0	10	0	83.8	30-125	0			
2,4-D	68	40	100	0	68	15-120	0			
2,4-DB	941	40	100	0	941	20-125	0			S
Dalapon	146	100	250	0	58.4	10-105	0			
Dicamba	8.93	4.0	10	0	89.3	45-150	0			
Dichlorprop	90.3	40	100	0	90.3	20-130	0			
Dinoseb	42	20	50	0	84	25-125	0			
MCPA	6880	4,000	10000	0	68.8	10-120	0			
MCPP	7180	4,000	10000	0	71.8	10-130	0			
Pentachlorophenol	7.23	4.0	10	0	72.3	30-110	0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	107	0	100	0	107	25-110	0			

The following samples were analyzed in this batch:

1305701-01C	1305701-02C	1305701-03C
1305701-04C	1305701-05C	1305701-06C
1305701-07C	1305701-08C	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305701
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99921c** Instrument ID: **SUB** Method: **SW8081A**

MBLK	Sample ID: BLANK-R99921c	Units: µg/Kg					Analysis Date: 6/11/2013 11:34 PM			
Client ID:	Run ID: SUB_130612A	SeqNo: 632034			Prep Date: 6/5/2013		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	1.6								
4,4'-DDE	ND	1.6								
4,4'-DDT	ND	1.6								
Aldrin	ND	1.6								
alpha-BHC	ND	1.6								
alpha-Chlordane	ND	1.6								
beta-BHC	ND	1.6								
delta-BHC	ND	1.6								
Dieldrin	ND	1.6								
Endosulfan I	ND	1.6								
Endosulfan II	ND	1.6								
Endosulfan sulfate	ND	1.6								
Endrin	ND	1.6								
Endrin aldehyde	ND	1.6								
Endrin ketone	ND	1.6								
gamma-BHC (Lindane)	ND	1.6								
gamma-Chlordane	ND	1.6								
Heptachlor	ND	1.6								
Heptachlor epoxide	ND	1.6								
Methoxychlor	ND	1.6								
Toxaphene	ND	33								
<i>Surr: Decachlorobiphenyl</i>	49.7	0	100	0	49.7	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	36.1	0	100	0	36.1	39-130	0			S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305701
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99921c** Instrument ID: **SUB** Method: **SW8081A**

LCS		Sample ID: LCS-R99921c			Units: µg/Kg		Analysis Date: 6/12/2013 12:02 AM			
Client ID:		Run ID: SUB_130612A			SeqNo: 632035		Prep Date: 6/5/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	9.88	1.6	16.7	0	59.2	60-110	0			S
4,4'-DDE	10	1.6	16.7	0	59.9	55-110	0			
4,4'-DDT	10.9	1.6	16.7	0	65.3	60-115	0			
Aldrin	9.31	1.6	16.7	0	55.7	50-100	0			
alpha-BHC	8.84	1.6	16.7	0	52.9	50-100	0			
alpha-Chlordane	10.6	1.6	16.7	0	63.5	55-105	0			
beta-BHC	10.2	1.6	16.7	0	61.1	50-100	0			
delta-BHC	10	1.6	16.7	0	59.9	50-110	0			
Dieldrin	10	1.6	16.7	0	59.9	60-110	0			S
Endosulfan I	10.6	1.6	16.7	0	63.5	40-100	0			
Endosulfan II	10.4	1.6	16.7	0	62.3	40-100	0			
Endosulfan sulfate	11	1.6	16.7	0	65.9	45-115	0			
Endrin	10	1.6	16.7	0	59.9	55-100	0			
Endrin aldehyde	9.26	1.6	16.7	0	55.4	45-110	0			
Endrin ketone	10.1	1.6	16.7	0	60.5	55-115	0			
gamma-BHC (Lindane)	10.8	1.6	16.7	0	64.7	50-100	0			
gamma-Chlordane	9.05	1.6	16.7	0	54.2	50-110	0			
Heptachlor	10.7	1.6	16.7	0	64.1	50-105	0			
Heptachlor epoxide	10.8	1.6	16.7	0	64.7	55-105	0			
Methoxychlor	12.1	1.6	16.7	0	72.5	60-125	0			

LCS		Sample ID: lcs-R99921c			Units: µg/Kg		Analysis Date: 6/12/2013 12:57 AM			
Client ID:		Run ID: SUB_130612A			SeqNo: 632199		Prep Date: 6/5/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Toxaphene	52.4	33	66.7	0	78.6			0		
<i>Surr: Decachlorobiphenyl</i>	81.3	0	100	0	81.3			0		
<i>Surr: Tetrachloro-m-xylene</i>	49.6	0	100	0	49.6			0		

The following samples were analyzed in this batch:

1305701-01C	1305701-02C	1305701-03C
1305701-04C	1305701-05C	1305701-06C
1305701-07C	1305701-08C	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305701
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17058 Instrument ID: SVMS2 Method: SW8270C

MBLK	Sample ID: MBLK-17058-17058	Units: µg/Kg		Analysis Date: 6/10/2013 06:01 PM						
Client ID:	Run ID: SVMS2_130610B	SeqNo: 624576		Prep Date: 6/7/2013	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	330								
1,2,4-Trichlorobenzene	ND	330								
1,2-Dichlorobenzene	ND	330								
1,3-Dichlorobenzene	ND	330								
1,3-Dinitrobenzene	ND	330								
1,4-Dichlorobenzene	ND	330								
1-Methylnaphthalene	ND	330								
1-Naphthylamine	ND	330								
2,3,4,6-Tetrachlorophenol	ND	330								
2,4,5-Trichlorophenol	ND	330								
2,4,6-Trichlorophenol	ND	330								
2,4-Dichlorophenol	ND	330								
2,4-Dimethylphenol	ND	330								
2,4-Dinitrophenol	ND	1,600								
2,4-Dinitrotoluene	ND	330								
2,6-Dichlorophenol	ND	330								
2,6-Dinitrotoluene	ND	330								
2-Acetylaminofluorene	ND	330								
2-Chloronaphthalene	ND	330								
2-Chlorophenol	ND	330								
2-Methylnaphthalene	ND	330								
2-Methylphenol	ND	330								
2-Naphthylamine	ND	330								
2-Nitroaniline	ND	1,600								
2-Nitrophenol	ND	330								
2-Picoline	ND	330								
3&4-Methylphenol	ND	330								
3,3'-Dichlorobenzidine	ND	660								
3-Methylcholanthrene	ND	330								
3-Nitroaniline	ND	1,600								
4,6-Dinitro-2-methylphenol	ND	1,600								
4-Aminobiphenyl	ND	660								
4-Bromophenyl phenyl ether	ND	330								
4-Chloro-3-methylphenol	ND	660								
4-Chloroaniline	ND	660								
4-Chlorophenyl phenyl ether	ND	330								
4-Nitroaniline	ND	660								
4-Nitrophenol	ND	1,600								
4-Nitroquinoline 1-oxide	ND	330								
5-Nitro-o-toluidine	ND	330								
7,12-Dimethylbenz(a)anthracene	ND	330								
Acenaphthene	ND	330								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305701
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17058	Instrument ID: SVMS2	Method: SW8270C
Acenaphthylene	ND	330
Acetophenone	ND	330
Aniline	ND	330
Anthracene	ND	330
Azobenzene	ND	330
Benzidine	ND	330
Benzo(a)anthracene	ND	330
Benzo(a)pyrene	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(g,h,i)perylene	ND	330
Benzo(k)fluoranthene	ND	330
Benzyl alcohol	ND	660
Bis(2-chloroethoxy)methane	ND	330
Bis(2-chloroethyl)ether	ND	330
Bis(2-chloroisopropyl)ether	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Butyl benzyl phthalate	ND	330
Carbazole	ND	330
Chrysene	ND	330
Dibenzo(a,h)anthracene	ND	330
Dibenzofuran	ND	330
Diethyl phthalate	ND	330
Dimethyl phthalate	ND	330
Di-n-butyl phthalate	ND	330
Di-n-octyl phthalate	ND	330
Dinoseb	ND	330
Diphenylamine	ND	330
Ethyl methanesulfonate	ND	330
Fluoranthene	ND	330
Fluorene	ND	330
Hexachlorobenzene	ND	330
Hexachlorobutadiene	ND	330
Hexachlorocyclopentadiene	ND	330
Hexachloroethane	ND	330
Indeno(1,2,3-cd)pyrene	ND	150
Isophorone	ND	330
Isosafrole	ND	330
Methapyrilene	ND	330
Methyl methanesulfonate	ND	330
Naphthalene	ND	330
Nitrobenzene	ND	330
N-Nitrosodiethylamine	ND	330
N-Nitrosodimethylamine	ND	330
N-Nitroso-di-n-butylamine	ND	330
N-Nitrosodi-n-propylamine	ND	330
N-Nitrosomethylethylamine	ND	330
N-Nitrosomorpholine	ND	330
N-Nitrosopiperidine	ND	330

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305701
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17058	Instrument ID: SVMS2	Method: SW8270C					
N-Nitrosopyrrolidine	ND	330					
o-Toluidine	ND	330					
p-Dimethylaminoazobenzene	ND	330					
Pentachlorobenzene	ND	330					
Pentachloroethane	ND	330					
Pentachloronitrobenzene	ND	660					
Pentachlorophenol	ND	1,600					
Phenacetin	ND	660					
Phenanthrene	ND	330					
Phenol	ND	330					
Pyrene	ND	330					
Pyridine	ND	330					
Safrole	ND	330					
<i>Surr: 2,4,6-Tribromophenol</i>	2737	0	3330	0	82.2	18-115	0
<i>Surr: 2-Fluorobiphenyl</i>	1278	0	1670	0	76.5	30-116	0
<i>Surr: 2-Fluorophenol</i>	2081	0	3330	0	62.5	24-105	0
<i>Surr: 4-Terphenyl-d14</i>	1344	0	1670	0	80.5	40-127	0
<i>Surr: Nitrobenzene-d5</i>	1279	0	1670	0	76.6	32-106	0
<i>Surr: Phenol-d5</i>	2378	0	3330	0	71.4	39-123	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305701
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17058 Instrument ID: SVMS2 Method: SW8270C

LCS		Sample ID: LCS-17058-17058			Units: µg/Kg		Analysis Date: 6/10/2013 06:34 PM			
Client ID:		Run ID: SVMS2_130610B			SeqNo: 624577		Prep Date: 6/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1278	330	1670	0	76.5	48.1-106	0			
1,4-Dichlorobenzene	1158	330	1670	0	69.3	55.5-89.4	0			
2,4-Dinitrotoluene	1731	330	1670	0	104	58.8-123	0			
2-Chlorophenol	1512	330	1670	0	90.5	34.7-116	0			
4-Chloro-3-methylphenol	1456	660	1670	0	87.2	32.1-109	0			
4-Nitrophenol	2077	1,600	1670	0	124	36.2-146	0			
Acenaphthene	1449	330	1670	0	86.8	67.8-104	0			
Acenaphthylene	1488	330	1670	0	89.1	65.6-103	0			
Anthracene	1407	330	1670	0	84.3	71.1-107	0			
Benzo(a)anthracene	1294	330	1670	0	77.5	60.4-118	0			
Benzo(a)pyrene	1523	330	1670	0	91.2	73.7-110	0			
Benzo(b)fluoranthene	1285	330	1670	0	77	59.9-94.8	0			
Benzo(g,h,i)perylene	1638	330	1670	0	98.1	40-129	0			
Benzo(k)fluoranthene	1299	330	1670	0	77.8	75.7-130	0			
Carbazole	1779	330	1670	0	107	69.6-107	0			
Chrysene	1268	330	1670	0	75.9	62.3-115	0			
Dibenzo(a,h)anthracene	1552	330	1670	0	92.9	59.2-121	0			
Fluoranthene	1586	330	1670	0	95	63-120	0			
Fluorene	1482	330	1670	0	88.8	69-106	0			
Indeno(1,2,3-cd)pyrene	1599	150	1670	0	95.7	59-110	0			
Naphthalene	1327	330	1670	0	79.5	49.1-103	0			
N-Nitrosodi-n-propylamine	1369	330	1670	0	82	25.3-127	0			
Pentachlorophenol	1713	1,600	1670	0	103	22.1-105	0			
Phenanthrene	1499	330	1670	0	89.8	70-112	0			
Phenol	1267	330	1670	0	75.9	36.9-97.8	0			
Pyrene	1542	330	1670	0	92.3	55-117	0			
Surr: 2,4,6-Tribromophenol	2892	0	3330	0	86.8	18-115	0			
Surr: 2-Fluorobiphenyl	1375	0	1670	0	82.4	30-116	0			
Surr: 2-Fluorophenol	2396	0	3330	0	71.9	24-105	0			
Surr: 4-Terphenyl-d14	1479	0	1670	0	88.6	40-127	0			
Surr: Nitrobenzene-d5	1308	0	1670	0	78.3	32-106	0			
Surr: Phenol-d5	2502	0	3330	0	75.1	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305701
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17058 Instrument ID: SVMS2 Method: SW8270C

MS		Sample ID: 1305672-05B MSS			Units: µg/Kg		Analysis Date: 6/10/2013 07:08 PM			
Client ID:		Run ID: SVMS2_130610B			SeqNo: 624578		Prep Date: 6/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1198	330	1667	0	71.8	50.6-92	0			
1,4-Dichlorobenzene	1166	330	1667	0	70	40.1-84.3	0			
2,4-Dinitrotoluene	1619	330	1667	0	97.1	50.3-127	0			
2-Chlorophenol	1398	330	1667	0	83.9	33.3-109	0			
4-Chloro-3-methylphenol	1435	660	1667	0	86	35.8-116	0			
4-Nitrophenol	1806	1,600	1667	0	108	38.7-135	0			
Acenaphthene	1361	330	1667	0	81.7	54.1-109	0			
Acenaphthylene	1344	330	1667	0	80.6	55.3-118	0			
Anthracene	1334	330	1667	0	80	51-106	0			
Benzo(a)anthracene	1212	330	1667	0	72.7	31.6-128	0			
Benzo(a)pyrene	1426	330	1667	0	85.5	66.1-109	0			
Benzo(b)fluoranthene	1245	330	1667	0	74.7	56.8-87.8	0			
Benzo(g,h,i)perylene	1649	330	1667	0	98.9	37.7-113	0			
Benzo(k)fluoranthene	1379	330	1667	0	82.7	57-119	0			
Carbazole	1480	330	1667	0	88.8	28.5-114	0			
Chrysene	1148	330	1667	0	68.8	46.3-104	0			
Dibenzo(a,h)anthracene	1434	330	1667	0	86	48.8-123	0			
Fluoranthene	1458	330	1667	0	87.4	52-120	0			
Fluorene	1391	330	1667	0	83.5	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1527	150	1667	0	91.6	56.1-118	0			
Naphthalene	1265	330	1667	0	75.8	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1308	330	1667	0	78.5	46.5-116	0			
Pentachlorophenol	ND	1,600	1667	0	95.9	28.9-156	0			
Phenanthrene	1371	330	1667	0	82.2	52-105	0			
Phenol	1195	330	1667	0	71.7	25.9-90.3	0			
Pyrene	1467	330	1667	0	88	51-111	0			
Surr: 2,4,6-Tribromophenol	2591	0	3324	0	77.9	18-115	0			
Surr: 2-Fluorobiphenyl	1241	0	1667	0	74.4	30-116	0			
Surr: 2-Fluorophenol	2281	0	3324	0	68.6	24-105	0			
Surr: 4-Terphenyl-d14	1352	0	1667	0	81.1	40-127	0			
Surr: Nitrobenzene-d5	1181	0	1667	0	70.9	32-106	0			
Surr: Phenol-d5	2243	0	3324	0	67.5	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305701
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17058 Instrument ID: SVMS2 Method: SW8270C

MSD		Sample ID: 1305672-05B MSDD			Units: µg/Kg		Analysis Date: 6/10/2013 07:41 PM			
Client ID:		Run ID: SVMS2_130610B			SeqNo: 624579		Prep Date: 6/7/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1025	330	1667	0	61.5	50.6-92	1198	15.5	18	
1,4-Dichlorobenzene	929.5	330	1667	0	55.8	40.1-84.3	1166	22.6	20	R
2,4-Dinitrotoluene	1494	330	1667	0	89.6	50.3-127	1619	8.03	20	
2-Chlorophenol	1184	330	1667	0	71	33.3-109	1398	16.6	20	
4-Chloro-3-methylphenol	1179	660	1667	0	70.7	35.8-116	1435	19.6	20	
4-Nitrophenol	ND	1,600	1667	0	85.1	38.7-135	1806	0	20	
Acenaphthene	1193	330	1667	0	71.6	54.1-109	1361	13.2	20	
Acenaphthylene	1189	330	1667	0	71.3	55.3-118	1344	12.3	20	
Anthracene	1231	330	1667	0	73.8	51-106	1334	8.05	20	
Benzo(a)anthracene	1172	330	1667	0	70.3	31.6-128	1212	3.3	20	
Benzo(a)pyrene	1317	330	1667	0	79	66.1-109	1426	7.94	20	
Benzo(b)fluoranthene	1189	330	1667	0	71.3	56.8-87.8	1245	4.6	20	
Benzo(g,h,i)perylene	1415	330	1667	0	84.9	37.7-113	1649	15.3	20	
Benzo(k)fluoranthene	1265	330	1667	0	75.9	57-119	1379	8.56	20	
Carbazole	1493	330	1667	0	89.6	28.5-114	1480	0.84	20	
Chrysene	1073	330	1667	0	64.4	46.3-104	1148	6.71	21	
Dibenzo(a,h)anthracene	1207	330	1667	0	72.4	48.8-123	1434	17.2	20	
Fluoranthene	1397	330	1667	0	83.8	52-120	1458	4.3	20	
Fluorene	1244	330	1667	0	74.7	54.8-113	1391	11.2	20	
Indeno(1,2,3-cd)pyrene	1316	150	1667	0	78.9	56.1-118	1527	14.9	20	
Naphthalene	1055	330	1667	0	63.3	51.1-99.3	1265	18.1	20	
N-Nitrosodi-n-propylamine	1066	330	1667	0	63.9	46.5-116	1308	20.5	17	R
Pentachlorophenol	ND	1,600	1667	0	93.1	28.9-156	1599	0	20	
Phenanthrene	1284	330	1667	0	77.1	52-105	1371	6.5	20	
Phenol	1046	330	1667	0	62.8	25.9-90.3	1195	13.3	17	
Pyrene	1389	330	1667	0	83.3	51-111	1467	5.46	20	
Surr: 2,4,6-Tribromophenol	2464	0	3323	0	74.1	18-115	2591	5.04		
Surr: 2-Fluorobiphenyl	1086	0	1667	0	65.1	30-116	1241	13.3		
Surr: 2-Fluorophenol	1893	0	3323	0	56.9	24-105	2281	18.6		
Surr: 4-Terphenyl-d14	1309	0	1667	0	78.5	40-127	1352	3.28		
Surr: Nitrobenzene-d5	1016	0	1667	0	61	32-106	1181	15		
Surr: Phenol-d5	1999	0	3323	0	60.2	39-123	2243	11.5		

The following samples were analyzed in this batch:

1305701-01b	1305701-02b	1305701-03b
1305701-04b	1305701-05b	1305701-06b
1305701-07b	1305701-08b	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305701
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99562** Instrument ID: **VMS2** Method: **SW8260**

MBLK		Sample ID: MBLK-R99562			Units: µg/Kg		Analysis Date: 6/5/2013 10:02 AM			
Client ID:		Run ID: VMS2_130605A			SeqNo: 620849		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305701
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99562	Instrument ID: VMS2	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	5.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	44.63	0	50	0	89.3	62.7-159	0
<i>Surr: Dibromofluoromethane</i>	47.19	0	50	0	94.4	88.2-133	0
<i>Surr: Toluene-d8</i>	48.84	0	50	0	97.7	81.5-110	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305701
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99562** Instrument ID: **VMS2** Method: **SW8260**

LCS		Sample ID: LCS-R99562			Units: µg/Kg		Analysis Date: 6/5/2013 10:44 AM			
Client ID:		Run ID: VMS2_130605A			SeqNo: 620850		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	40.44	5.0	50	0	80.9	70-132	0			
1,1-Dichloroethene	38.43	5.0	50	0	76.9	61.2-140	0			
1,2-Dichloroethane	42.77	5.0	50	0	85.5	67.3-139	0			
1,3-Dichlorobenzene	39.36	5.0	50	0	78.7	67.5-126	0			
1,4-Dichlorobenzene	39.63	5.0	50	0	79.3	69.5-124	0			
Benzene	39.56	5.0	50	0	79.1	67.2-135	0			
Carbon tetrachloride	39.71	5.0	50	0	79.4	68.6-138	0			
Chlorobenzene	39.38	5.0	50	0	78.8	66.4-133	0			
Chloroform	40.15	5.0	50	0	80.3	68.2-127	0			
cis-1,2-Dichloroethene	42	5.0	50	0	84	62.1-135	0			
Ethylbenzene	40.04	5.0	50	0	80.1	67.8-132	0			
m,p-Xylene	80.01	5.0	100	0	80	66.4-132	0			
Styrene	41.09	5.0	50	0	82.2	67.6-134	0			
Tetrachloroethene	47.05	5.0	50	0	94.1	70.3-144	0			
Toluene	38.88	5.0	50	0	77.8	67.8-130	0			
Trichloroethene	42.75	5.0	50	0	85.5	68.5-136	0			
Surr: 4-Bromofluorobenzene	46.21	0	50	0	92.4	62.7-159	0			
Surr: Dibromofluoromethane	51.85	0	50	0	104	88.2-133	0			
Surr: Toluene-d8	47.51	0	50	0	95	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305701
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99562** Instrument ID: **VMS2** Method: **SW8260**

MS		Sample ID: 1305648-05A MS			Units: µg/Kg		Analysis Date: 6/5/2013 11:47 AM			
Client ID:		Run ID: VMS2_130605A			SeqNo: 620851		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.62	5.0	50	0	97.2	66.9-140	0			
1,1-Dichloroethene	47.19	5.0	50	0	94.4	65.9-143	0			
1,2-Dichloroethane	51.37	5.0	50	0	103	73-135	0			
1,3-Dichlorobenzene	47.44	5.0	50	0	94.9	61.2-125	0			
1,4-Dichlorobenzene	45.31	5.0	50	0	90.6	62.3-123	0			
Benzene	47.87	5.0	50	0	95.7	35.8-162	0			
Carbon tetrachloride	50.21	5.0	50	0	100	71.4-130	0			
Chlorobenzene	47.5	5.0	50	0	95	65.6-137	0			
Chloroform	46.39	5.0	50	0	92.8	69.6-128	0			
cis-1,2-Dichloroethene	46.78	5.0	50	0	93.6	68.8-130	0			
Ethylbenzene	46.65	5.0	50	0	93.3	68.6-124	0			
m,p-Xylene	93.98	5.0	100	0	94	64.5-125	0			
Styrene	48.23	5.0	50	0	96.5	65.9-125	0			
Tetrachloroethene	49.41	5.0	50	0	98.8	71.6-135	0			
Toluene	47.04	5.0	50	0	94.1	67.7-135	0			
Trichloroethene	52	5.0	50	0	104	70.9-139	0			
<i>Surr: 4-Bromofluorobenzene</i>	46.71	0	50	0	93.4	62.7-159	0			
<i>Surr: Dibromofluoromethane</i>	49.68	0	50	0	99.4	88.2-133	0			
<i>Surr: Toluene-d8</i>	50.16	0	50	0	100	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305701
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99562** Instrument ID: **VMS2** Method: **SW8260**

MSD		Sample ID: 1305648-05A MSD			Units: µg/Kg		Analysis Date: 6/5/2013 12:19 PM			
Client ID:		Run ID: VMS2_130605A			SeqNo: 620852		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	52.04	5.0	50	0	104	66.9-140	48.62	6.8	20	
1,1-Dichloroethene	50.52	5.0	50	0	101	65.9-143	47.19	6.82	20	
1,2-Dichloroethane	58.64	5.0	50	0	117	73-135	51.37	13.2	20	
1,3-Dichlorobenzene	49.53	5.0	50	0	99.1	61.2-125	47.44	4.31	21	
1,4-Dichlorobenzene	49.97	5.0	50	0	99.9	62.3-123	45.31	9.78	22.5	
Benzene	52.13	5.0	50	0	104	35.8-162	47.87	8.52	23.6	
Carbon tetrachloride	54.1	5.0	50	0	108	71.4-130	50.21	7.46	22.9	
Chlorobenzene	50.71	5.0	50	0	101	65.6-137	47.5	6.54	20	
Chloroform	49.86	5.0	50	0	99.7	69.6-128	46.39	7.21	23.1	
cis-1,2-Dichloroethene	51.76	5.0	50	0	104	68.8-130	46.78	10.1	23.7	
Ethylbenzene	49.49	5.0	50	0	99	68.6-124	46.65	5.91	24.9	
m,p-Xylene	100.4	5.0	100	0	100	64.5-125	93.98	6.64	25.1	
Styrene	51.34	5.0	50	0	103	65.9-125	48.23	6.25	22.8	
Tetrachloroethene	52.73	5.0	50	0	105	71.6-135	49.41	6.5	24.7	
Toluene	51.94	5.0	50	0	104	67.7-135	47.04	9.9	20	
Trichloroethene	55.77	5.0	50	0	112	70.9-139	52	7	20	
<i>Surr: 4-Bromofluorobenzene</i>	46.22	0	50	0	92.4	62.7-159	46.71	1.05		
<i>Surr: Dibromofluoromethane</i>	51.8	0	50	0	104	88.2-133	49.68	4.18		
<i>Surr: Toluene-d8</i>	50.12	0	50	0	100	81.5-110	50.16	0.0798		

The following samples were analyzed in this batch:

1305701-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305701
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99608** Instrument ID: **VMS2** Method: **SW8260**

MBLK		Sample ID: MBLK-R99608			Units: µg/Kg		Analysis Date: 6/6/2013 10:35 AM			
Client ID:		Run ID: VMS2_130606A			SeqNo: 622099		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305701
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99608	Instrument ID: VMS2	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	5.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	43.67	0	50	0	87.3	62.7-159	0
<i>Surr: Dibromofluoromethane</i>	46.65	0	50	0	93.3	88.2-133	0
<i>Surr: Toluene-d8</i>	48.81	0	50	0	97.6	81.5-110	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305701
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99608** Instrument ID: **VMS2** Method: **SW8260**

LCS		Sample ID: LCS-R99608			Units: µg/Kg		Analysis Date: 6/6/2013 11:06 AM			
Client ID:		Run ID: VMS2_130606A			SeqNo: 622100		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	45.37	5.0	50	0	90.7	70-132	0			
1,1-Dichloroethene	41.15	5.0	50	0	82.3	61.2-140	0			
1,2-Dichloroethane	54.16	5.0	50	0	108	67.3-139	0			
1,3-Dichlorobenzene	46.88	5.0	50	0	93.8	67.5-126	0			
1,4-Dichlorobenzene	45.9	5.0	50	0	91.8	69.5-124	0			
Benzene	45.86	5.0	50	0	91.7	67.2-135	0			
Carbon tetrachloride	49.41	5.0	50	0	98.8	68.6-138	0			
Chlorobenzene	46.24	5.0	50	0	92.5	66.4-133	0			
Chloroform	42.64	5.0	50	0	85.3	68.2-127	0			
cis-1,2-Dichloroethene	46.61	5.0	50	0	93.2	62.1-135	0			
Ethylbenzene	45.43	5.0	50	0	90.9	67.8-132	0			
m,p-Xylene	89.62	5.0	100	0	89.6	66.4-132	0			
Styrene	45.57	5.0	50	0	91.1	67.6-134	0			
Tetrachloroethene	49.19	5.0	50	0	98.4	70.3-144	0			
Toluene	44.89	5.0	50	0	89.8	67.8-130	0			
Trichloroethene	49.76	5.0	50	0	99.5	68.5-136	0			
Surr: 4-Bromofluorobenzene	48.28	0	50	0	96.6	62.7-159	0			
Surr: Dibromofluoromethane	49.07	0	50	0	98.1	88.2-133	0			
Surr: Toluene-d8	48.44	0	50	0	96.9	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305701
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99608** Instrument ID: **VMS2** Method: **SW8260**

MS		Sample ID: 1305648-06A MS			Units: µg/Kg		Analysis Date: 6/6/2013 11:49 AM			
Client ID:		Run ID: VMS2_130606A			SeqNo: 622101		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	46.52	5.0	50	0	93	66.9-140	0			
1,1-Dichloroethene	44.6	5.0	50	0	89.2	65.9-143	0			
1,2-Dichloroethane	54.1	5.0	50	0	108	73-135	0			
1,3-Dichlorobenzene	45.69	5.0	50	0	91.4	61.2-125	0			
1,4-Dichlorobenzene	44.17	5.0	50	0	88.3	62.3-123	0			
Benzene	46.5	5.0	50	0	93	35.8-162	0			
Carbon tetrachloride	49.88	5.0	50	0	99.8	71.4-130	0			
Chlorobenzene	46.44	5.0	50	0	92.9	65.6-137	0			
Chloroform	42.41	5.0	50	0	84.8	69.6-128	0			
cis-1,2-Dichloroethene	45.47	5.0	50	0	90.9	68.8-130	0			
Ethylbenzene	44.53	5.0	50	0	89.1	68.6-124	0			
m,p-Xylene	87.74	5.0	100	0	87.7	64.5-125	0			
Styrene	44.71	5.0	50	0	89.4	65.9-125	0			
Tetrachloroethene	48.66	5.0	50	0	97.3	71.6-135	0			
Toluene	46.83	5.0	50	0	93.7	67.7-135	0			
Trichloroethene	50.82	5.0	50	0	102	70.9-139	0			
<i>Surr: 4-Bromofluorobenzene</i>	42.55	0	50	0	85.1	62.7-159	0			
<i>Surr: Dibromofluoromethane</i>	46.03	0	50	0	92.1	88.2-133	0			
<i>Surr: Toluene-d8</i>	47.76	0	50	0	95.5	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305701
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99608** Instrument ID: **VMS2** Method: **SW8260**

MSD		Sample ID: 1305648-06A MSD				Units: µg/Kg		Analysis Date: 6/6/2013 01:57 PM		
Client ID:		Run ID: VMS2_130606A				SeqNo: 622105		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	41.75	5.0	50	0	83.5	66.9-140	46.52	10.8	20	
1,1-Dichloroethene	39.57	5.0	50	0	79.1	65.9-143	44.6	12	20	
1,2-Dichloroethane	43.76	5.0	50	0	87.5	73-135	54.1	21.1	20	R
1,3-Dichlorobenzene	45.59	5.0	50	0	91.2	61.2-125	45.69	0.219	21	
1,4-Dichlorobenzene	44.26	5.0	50	0	88.5	62.3-123	44.17	0.204	22.5	
Benzene	47	5.0	50	0	94	35.8-162	46.5	1.07	23.6	
Carbon tetrachloride	43.91	5.0	50	0	87.8	71.4-130	49.88	12.7	22.9	
Chlorobenzene	46.14	5.0	50	0	92.3	65.6-137	46.44	0.648	20	
Chloroform	37.92	5.0	50	0	75.8	69.6-128	42.41	11.2	23.1	
cis-1,2-Dichloroethene	40.9	5.0	50	0	81.8	68.8-130	45.47	10.6	23.7	
Ethylbenzene	44.15	5.0	50	0	88.3	68.6-124	44.53	0.857	24.9	
m,p-Xylene	86.29	5.0	100	0	86.3	64.5-125	87.74	1.67	25.1	
Styrene	45	5.0	50	0	90	65.9-125	44.71	0.647	22.8	
Tetrachloroethene	52.48	5.0	50	0	105	71.6-135	48.66	7.55	24.7	
Toluene	45.35	5.0	50	0	90.7	67.7-135	46.83	3.21	20	
Trichloroethene	51.14	5.0	50	0	102	70.9-139	50.82	0.628	20	
<i>Surr: 4-Bromofluorobenzene</i>	43.34	0	50	0	86.7	62.7-159	42.55	1.84		
<i>Surr: Dibromofluoromethane</i>	42.38	0	50	0	84.8	88.2-133	46.03	8.26		S
<i>Surr: Toluene-d8</i>	46.92	0	50	0	93.8	81.5-110	47.76	1.77		

The following samples were analyzed in this batch:

1305701-02A	1305701-03A	1305701-04A
1305701-05A	1305701-06A	1305701-07A
1305701-08A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305701

Analytical Comments

Method	Type:	SampID	SeqNo	Analysis	Comments
Batch <u>R99921a</u>					
	Analysis	1305701-03C	630788	Herbicides	Analyzed at 10X dilution. Surrogate was diluted out.
	Analysis	1305701-06C	630791	Herbicides	Analyzed at 10X dilution. Surrogate was diluted out.
	Analysis	1305701-08C	630793	Herbicides	Analyzed at 10X dilution. Surrogate was diluted out.
Batch <u>R99921c</u>					
	Analysis	1305701-03C	632038	Organochlorine Pesticides	Concentrations for alpha Chlordane >40% difference between the 2 columns.
	Analysis	1305701-06C	632041	Organochlorine Pesticides	Analyzed at 5X dilution.
	Analysis	1305701-08C	632043	Organochlorine Pesticides	Analyzed at 10X dilution. Surrogate was diluted out. Concentrations for alpha Chlordane and gamma Chlordane >40% difference between the 2 columns.
Batch <u>R99608</u>					
	Analysis	1305648-06A MSD	622105	Volatile Organic Compounds	Surrogate is outside QA/QC limits. Sample was reanalyzed with similar results.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
WorkOrder: 1305701

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
% of sample	
µg/Kg	
µg/Kg-dry	
mg/Kg	
mg/Kg-dry	

Sample Receipt Checklist

Client Name: **AECOM-CINCINNATI**

Date/Time Received: **31-May-13 00:00**

Work Order: **1305701**

Received by: **JNW**

Checklist completed by: Ann Gallagher 31-May-13
eSignature Date

Reviewed by: Chris Gibson 03-Jun-13
eSignature Date

Matrices:

Carrier name: Client

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



ALS Laboratory Group

10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

ALS Laboratory Group

3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
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Page 1 of 1

1305701

ALS Project Manager: ALS Work Order #:

Table with 3 main columns: Customer Information, Project Information, and Parameter/Method Request for Analysis. Includes fields for Purchase Order, Work Order, Company Name, Address, City/State/Zip, Phone, Fax, e-Mail Address, Project Name, Project Number, Bill To Company, Invoice Attn, Address, City/State/Zip, Phone, Fax, e-Mail Address, and analysis parameters A-J.

Table with 17 columns: No., Sample Description, Date, Time, Matrix, Pres., # Bottles, A, B, C, D, E, F, G, H, I, J, Hold. Contains handwritten data for 8 samples.

Administrative section including Sampler(s) Please Print & Sign, Shipment Method, Required Turnaround Time (Check Box), Relinquished by, Received by, Logged by (Laboratory), Checked by (Laboratory), Cooler ID, Cooler Temp., and QC Package options.

- Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Appendix P

Sediment and Surface Water Laboratory Reports

|



12-Jun-2013

Elaine Nomina
AECOM
4219 Malsbury Road
Cincinnati, OH 45242

Tel: (513) 878-6853
Fax: (513) 878-6848

Re: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: **1305472**

Dear Elaine,

ALS Environmental received 2 samples on 21-May-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 64.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS. RIGHT PARTNER.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305472

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1305472-01	SW-1-052013	Water		5/20/2013 14:00	5/21/2013	<input type="checkbox"/>
1305472-02	SED-1-0001	Soil		5/20/2013 16:15	5/21/2013	<input type="checkbox"/>

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305472

Case Narrative

The analyses requested were analyzed according to Ohio Voluntary Action Program requirements.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The pesticides and herbicides analysis was performed by Microbac Laboratories, Marietta, OH.

All soils are reported as dry weight corrected.

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305472

Sample ID: SW-1-052013

Lab ID: 1305472-01

Collection Date: 5/20/2013 02:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.62	µg/L	1	5/24/2013
Aroclor 1221	ND		0.62	µg/L	1	5/24/2013
Aroclor 1232	ND		0.62	µg/L	1	5/24/2013
Aroclor 1242	ND		0.62	µg/L	1	5/24/2013
Aroclor 1248	ND		0.62	µg/L	1	5/24/2013
Aroclor 1254	ND		0.62	µg/L	1	5/24/2013
Aroclor 1260	ND		0.62	µg/L	1	5/24/2013
Surr: Decachlorobiphenyl	83.2		37-108	%REC	1	5/24/2013
Surr: Tetrachloro-m-xylene	82.8		9-136	%REC	1	5/24/2013
MERCURY BY CVAA			SW7470A		Prep Date: 5/27/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	5/28/2013 06:11 PM
METALS BY ICP			SW6010B		Prep Date: 5/22/2013	Analyst: VAW
Aluminum	ND		0.20	mg/L	1	5/22/2013 06:29 PM
Antimony	ND		0.0060	mg/L	1	5/22/2013 06:29 PM
Arsenic	ND		0.010	mg/L	1	5/22/2013 06:29 PM
Barium	ND		0.10	mg/L	1	5/22/2013 06:29 PM
Beryllium	ND		0.0040	mg/L	1	5/22/2013 06:29 PM
Cadmium	ND		0.0050	mg/L	1	5/22/2013 06:29 PM
Calcium	500		0.20	mg/L	1	5/22/2013 06:29 PM
Chromium	ND		0.020	mg/L	1	5/22/2013 06:29 PM
Cobalt	ND		0.050	mg/L	1	5/22/2013 06:29 PM
Copper	ND		0.025	mg/L	1	5/22/2013 06:29 PM
Iron	ND		0.20	mg/L	1	5/22/2013 06:29 PM
Lead	ND		0.015	mg/L	1	5/22/2013 06:29 PM
Magnesium	58		0.20	mg/L	1	5/22/2013 06:29 PM
Manganese	ND		0.050	mg/L	1	5/22/2013 06:29 PM
Nickel	ND		0.040	mg/L	1	5/22/2013 06:29 PM
Potassium	2.8		0.20	mg/L	1	5/22/2013 06:29 PM
Selenium	ND		0.030	mg/L	1	5/22/2013 06:29 PM
Silver	ND		0.010	mg/L	1	5/22/2013 06:29 PM
Sodium	14		0.20	mg/L	1	5/22/2013 06:29 PM
Thallium	ND		0.0020	mg/L	1	5/22/2013 06:29 PM
Vanadium	ND		0.050	mg/L	1	5/22/2013 06:29 PM
Zinc	ND		0.050	mg/L	1	5/22/2013 06:29 PM
SM2340B HARDNESS BY CALCULATION			SM2340B			Analyst: KMW
CaCO3	1,400		5.0	mg/L	1	5/28/2013
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/24/2013	Analyst: Microb

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305472

Sample ID: SW-1-052013

Lab ID: 1305472-01

Collection Date: 5/20/2013 02:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		0.050	µg/L	1	5/31/2013 02:33 AM
4,4'-DDE	ND		0.050	µg/L	1	5/31/2013 02:33 AM
4,4'-DDT	ND		0.050	µg/L	1	5/31/2013 02:33 AM
Aldrin	ND		0.050	µg/L	1	5/31/2013 02:33 AM
alpha Chlordane	ND		0.050	µg/L	1	5/31/2013 02:33 AM
alpha-BHC	ND		0.050	µg/L	1	5/31/2013 02:33 AM
beta-BHC	ND		0.050	µg/L	1	5/31/2013 02:33 AM
delta-BHC	ND		0.050	µg/L	1	5/31/2013 02:33 AM
Dieldrin	ND		0.050	µg/L	1	5/31/2013 02:33 AM
Endosulfan I	ND		0.050	µg/L	1	5/31/2013 02:33 AM
Endosulfan II	ND		0.050	µg/L	1	5/31/2013 02:33 AM
Endosulfan sulfate	ND		0.050	µg/L	1	5/31/2013 02:33 AM
Endrin	ND		0.050	µg/L	1	5/31/2013 02:33 AM
Endrin aldehyde	ND		0.050	µg/L	1	5/31/2013 02:33 AM
Endrin ketone	ND		0.050	µg/L	1	5/31/2013 02:33 AM
gamma Chlordane	ND		0.050	µg/L	1	5/31/2013 02:33 AM
gamma-BHC (Lindane)	ND		0.050	µg/L	1	5/31/2013 02:33 AM
Heptachlor	ND		0.050	µg/L	1	5/31/2013 02:33 AM
Heptachlor epoxide	ND		0.050	µg/L	1	5/31/2013 02:33 AM
Methoxychlor	ND		0.050	µg/L	1	5/31/2013 02:33 AM
Toxaphene	ND		1.0	µg/L	1	5/31/2013 02:33 AM
<i>Surr: Decachlorobiphenyl</i>	57.6		25-140	%REC	1	5/31/2013 02:33 AM
<i>Surr: Tetrachloro-m-xylene</i>	55.6		20-180	%REC	1	5/31/2013 02:33 AM

HERBICIDES

SW8151

Prep Date: 5/23/2013

Analyst: Microb

2,4,5-T	ND		0.20	µg/L	1	5/29/2013 11:03 PM
2,4,5-TP (Silvex)	ND		0.20	µg/L	1	5/29/2013 11:03 PM
2,4-D	ND		2.0	µg/L	1	5/29/2013 11:03 PM
2,4-DB	ND		2.0	µg/L	1	5/29/2013 11:03 PM
Dalapon	ND		5.0	µg/L	1	5/29/2013 11:03 PM
Dicamba	ND		0.20	µg/L	1	5/29/2013 11:03 PM
Dichlorprop	ND		2.0	µg/L	1	5/29/2013 11:03 PM
Dinoseb	ND		1.0	µg/L	1	5/29/2013 11:03 PM
MCPA	ND		250	µg/L	1	5/29/2013 11:03 PM
MCPP	ND		250	µg/L	1	5/29/2013 11:03 PM
Pentachlorophenol	ND		0.20	µg/L	1	5/29/2013 11:03 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	111		20-144	%REC	1	5/29/2013 11:03 PM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 5/23/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		10	µg/L	1	5/29/2013 02:15 AM
1,2,4-Trichlorobenzene	ND		10	µg/L	1	5/29/2013 02:15 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305472

Sample ID: SW-1-052013

Lab ID: 1305472-01

Collection Date: 5/20/2013 02:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		10	µg/L	1	5/29/2013 02:15 AM
1,3-Dichlorobenzene	ND		10	µg/L	1	5/29/2013 02:15 AM
1,3-Dinitrobenzene	ND		10	µg/L	1	5/29/2013 02:15 AM
1,4-Dichlorobenzene	ND		10	µg/L	1	5/29/2013 02:15 AM
1-Methylnaphthalene	ND		0.10	µg/L	1	5/28/2013 11:13 PM
1-Naphthylamine	ND		10	µg/L	1	5/29/2013 02:15 AM
2,3,4,6-Tetrachlorophenol	ND		10	µg/L	1	5/29/2013 02:15 AM
2,4,5-Trichlorophenol	ND		10	µg/L	1	5/29/2013 02:15 AM
2,4,6-Trichlorophenol	ND		10	µg/L	1	5/29/2013 02:15 AM
2,4-Dichlorophenol	ND		10	µg/L	1	5/29/2013 02:15 AM
2,4-Dimethylphenol	ND		10	µg/L	1	5/29/2013 02:15 AM
2,4-Dinitrophenol	ND		10	µg/L	1	5/29/2013 02:15 AM
2,4-Dinitrotoluene	ND		10	µg/L	1	5/29/2013 02:15 AM
2,6-Dichlorophenol	ND		10	µg/L	1	5/29/2013 02:15 AM
2,6-Dinitrotoluene	ND		10	µg/L	1	5/29/2013 02:15 AM
2-Acetylaminofluorene	ND		10	µg/L	1	5/29/2013 02:15 AM
2-Chloronaphthalene	ND		10	µg/L	1	5/29/2013 02:15 AM
2-Chlorophenol	ND		10	µg/L	1	5/29/2013 02:15 AM
2-Methylnaphthalene	ND		0.10	µg/L	1	5/28/2013 11:13 PM
2-Methylphenol	ND		10	µg/L	1	5/29/2013 02:15 AM
2-Naphthylamine	ND		21	µg/L	1	5/29/2013 02:15 AM
2-Nitroaniline	ND		10	µg/L	1	5/29/2013 02:15 AM
2-Nitrophenol	ND		10	µg/L	1	5/29/2013 02:15 AM
2-Picoline	ND		21	µg/L	1	5/29/2013 02:15 AM
3&4-Methylphenol	ND		10	µg/L	1	5/29/2013 02:15 AM
3,3'-Dichlorobenzidine	ND		10	µg/L	1	5/29/2013 02:15 AM
3-Methylcholanthrene	ND		21	µg/L	1	5/29/2013 02:15 AM
3-Nitroaniline	ND		21	µg/L	1	5/29/2013 02:15 AM
4,6-Dinitro-2-methylphenol	ND		21	µg/L	1	5/29/2013 02:15 AM
4-Aminobiphenyl	ND		10	µg/L	1	5/29/2013 02:15 AM
4-Bromophenyl phenyl ether	ND		21	µg/L	1	5/29/2013 02:15 AM
4-Chloro-3-methylphenol	ND		21	µg/L	1	5/29/2013 02:15 AM
4-Chloroaniline	ND		10	µg/L	1	5/29/2013 02:15 AM
4-Chlorophenyl phenyl ether	ND		21	µg/L	1	5/29/2013 02:15 AM
4-Nitroaniline	ND		21	µg/L	1	5/29/2013 02:15 AM
4-Nitrophenol	ND		10	µg/L	1	5/29/2013 02:15 AM
4-Nitroquinoline 1-oxide	ND		10	µg/L	1	5/29/2013 02:15 AM
5-Nitro-o-toluidine	ND		10	µg/L	1	5/29/2013 02:15 AM
7,12-Dimethylbenz(a)anthracene	ND		10	µg/L	1	5/29/2013 02:15 AM
Acenaphthene	ND		0.10	µg/L	1	5/28/2013 11:13 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305472

Sample ID: SW-1-052013

Lab ID: 1305472-01

Collection Date: 5/20/2013 02:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		0.10	µg/L	1	5/28/2013 11:13 PM
Acetophenone	ND		10	µg/L	1	5/29/2013 02:15 AM
Aniline	ND		10	µg/L	1	5/29/2013 02:15 AM
Anthracene	ND		0.10	µg/L	1	5/28/2013 11:13 PM
Azobenzene	ND		10	µg/L	1	5/29/2013 02:15 AM
Benzidine	ND		10	µg/L	1	5/29/2013 02:15 AM
Benzo(a)anthracene	ND		0.10	µg/L	1	5/28/2013 11:13 PM
Benzo(a)pyrene	ND		0.10	µg/L	1	5/28/2013 11:13 PM
Benzo(b)fluoranthene	ND		0.11	µg/L	1	5/28/2013 11:13 PM
Benzo(g,h,i)perylene	ND		0.10	µg/L	1	5/28/2013 11:13 PM
Benzo(k)fluoranthene	ND		0.17	µg/L	1	5/28/2013 11:13 PM
Benzyl alcohol	ND		10	µg/L	1	5/29/2013 02:15 AM
Bis(2-chloroethoxy)methane	ND		10	µg/L	1	5/29/2013 02:15 AM
Bis(2-chloroethyl)ether	ND		10	µg/L	1	5/29/2013 02:15 AM
Bis(2-chloroisopropyl)ether	ND		10	µg/L	1	5/29/2013 02:15 AM
Bis(2-ethylhexyl)phthalate	ND		10	µg/L	1	5/29/2013 02:15 AM
Butyl benzyl phthalate	ND		10	µg/L	1	5/29/2013 02:15 AM
Carbazole	ND		10	µg/L	1	5/28/2013 11:13 PM
Chrysene	ND		0.10	µg/L	1	5/28/2013 11:13 PM
Dibenzo(a,h)anthracene	ND		0.10	µg/L	1	5/28/2013 11:13 PM
Dibenzofuran	ND		10	µg/L	1	5/28/2013 11:13 PM
Diethyl phthalate	ND		10	µg/L	1	5/29/2013 02:15 AM
Dimethyl phthalate	ND		10	µg/L	1	5/29/2013 02:15 AM
Di-n-butyl phthalate	ND		10	µg/L	1	5/29/2013 02:15 AM
Di-n-octyl phthalate	ND		10	µg/L	1	5/29/2013 02:15 AM
Dinoseb	ND		21	µg/L	1	5/29/2013 02:15 AM
Diphenylamine	ND		10	µg/L	1	5/29/2013 02:15 AM
Ethyl methanesulfonate	ND		10	µg/L	1	5/29/2013 02:15 AM
Fluoranthene	ND		0.10	µg/L	1	5/28/2013 11:13 PM
Fluorene	ND		0.10	µg/L	1	5/28/2013 11:13 PM
Hexachlorobenzene	ND		10	µg/L	1	5/29/2013 02:15 AM
Hexachlorobutadiene	ND		10	µg/L	1	5/29/2013 02:15 AM
Hexachlorocyclopentadiene	ND		10	µg/L	1	5/29/2013 02:15 AM
Hexachloroethane	ND		10	µg/L	1	5/29/2013 02:15 AM
Indeno(1,2,3-cd)pyrene	ND		0.10	µg/L	1	5/28/2013 11:13 PM
Isophorone	ND		10	µg/L	1	5/29/2013 02:15 AM
Isosafrole	ND		10	µg/L	1	5/29/2013 02:15 AM
Methapyrilene	ND		10	µg/L	1	5/29/2013 02:15 AM
Methyl methanesulfonate	ND		10	µg/L	1	5/29/2013 02:15 AM
Naphthalene	0.10		0.10	µg/L	1	5/28/2013 11:13 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305472

Sample ID: SW-1-052013

Lab ID: 1305472-01

Collection Date: 5/20/2013 02:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		10	µg/L	1	5/29/2013 02:15 AM
N-Nitrosodiethylamine	ND		10	µg/L	1	5/29/2013 02:15 AM
N-Nitrosodimethylamine	ND		10	µg/L	1	5/29/2013 02:15 AM
N-Nitroso-di-n-butylamine	ND		10	µg/L	1	5/29/2013 02:15 AM
N-Nitrosodi-n-propylamine	ND		10	µg/L	1	5/29/2013 02:15 AM
N-Nitrosomethylethylamine	ND		10	µg/L	1	5/29/2013 02:15 AM
N-Nitrosomorpholine	ND		10	µg/L	1	5/29/2013 02:15 AM
N-Nitrosopiperidine	ND		10	µg/L	1	5/29/2013 02:15 AM
N-Nitrosopyrrolidine	ND		10	µg/L	1	5/29/2013 02:15 AM
o-Toluidine	ND		10	µg/L	1	5/29/2013 02:15 AM
p-Dimethylaminoazobenzene	ND		10	µg/L	1	5/29/2013 02:15 AM
Pentachlorobenzene	ND		10	µg/L	1	5/29/2013 02:15 AM
Pentachloroethane	ND		10	µg/L	1	5/29/2013 02:15 AM
Pentachloronitrobenzene	ND		21	µg/L	1	5/29/2013 02:15 AM
Pentachlorophenol	ND		21	µg/L	1	5/29/2013 02:15 AM
Phenacetin	ND		21	µg/L	1	5/29/2013 02:15 AM
Phenanthrene	ND		0.10	µg/L	1	5/28/2013 11:13 PM
Phenol	ND		10	µg/L	1	5/29/2013 02:15 AM
Pyrene	ND		0.10	µg/L	1	5/28/2013 11:13 PM
Pyridine	ND		10	µg/L	1	5/29/2013 02:15 AM
Safrole	ND		10	µg/L	1	5/29/2013 02:15 AM
<i>Surr: 2,4,6-Tribromophenol</i>	77.8		35-120	%REC	1	5/29/2013 02:15 AM
<i>Surr: 2-Fluorobiphenyl</i>	80.9		38-105	%REC	1	5/29/2013 02:15 AM
<i>Surr: 2-Fluorophenol</i>	48.5		12-89	%REC	1	5/29/2013 02:15 AM
<i>Surr: 4-Terphenyl-d14</i>	84.2		42-125	%REC	1	5/29/2013 02:15 AM
<i>Surr: Nitrobenzene-d5</i>	93.9		28-120	%REC	1	5/29/2013 02:15 AM
<i>Surr: Phenol-d5</i>	41.0		10-62	%REC	1	5/29/2013 02:15 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	5/23/2013 10:51 AM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	5/23/2013 10:51 AM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	5/23/2013 10:51 AM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	5/23/2013 10:51 AM
1,1-Dichloroethane	ND		5.0	µg/L	1	5/23/2013 10:51 AM
1,1-Dichloroethene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
1,1-Dichloropropene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	5/23/2013 10:51 AM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	5/23/2013 10:51 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305472

Sample ID: SW-1-052013

Lab ID: 1305472-01

Collection Date: 5/20/2013 02:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.0	µg/L	1	5/23/2013 10:51 AM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
1,2-Dichloroethane	ND		5.0	µg/L	1	5/23/2013 10:51 AM
1,2-Dichloropropane	ND		5.0	µg/L	1	5/23/2013 10:51 AM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
1,3-Dichloropropane	ND		5.0	µg/L	1	5/23/2013 10:51 AM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
2,2-Dichloropropane	ND		5.0	µg/L	1	5/23/2013 10:51 AM
2-Butanone	ND		5.0	µg/L	1	5/23/2013 10:51 AM
2-Chlorotoluene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
2-Hexanone	ND		5.0	µg/L	1	5/23/2013 10:51 AM
4-Chlorotoluene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Acetone	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Benzene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Bromobenzene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Bromochloromethane	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Bromodichloromethane	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Bromoform	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Bromomethane	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Carbon disulfide	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Carbon tetrachloride	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Chlorobenzene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Chloroethane	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Chloroform	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Chloromethane	ND		5.0	µg/L	1	5/23/2013 10:51 AM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Dibromochloromethane	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Dibromomethane	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Dichlorodifluoromethane	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Ethylbenzene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Hexachlorobutadiene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Isopropylbenzene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
m,p-Xylene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Methyl tert-butyl ether	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Methylene chloride	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Naphthalene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
n-Butylbenzene	ND		5.0	µg/L	1	5/23/2013 10:51 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305472

Sample ID: SW-1-052013

Lab ID: 1305472-01

Collection Date: 5/20/2013 02:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
o-Xylene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
p-Isopropyltoluene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
sec-Butylbenzene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Styrene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
tert-Butylbenzene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Tetrachloroethene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Toluene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Trichloroethene	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Trichlorofluoromethane	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Vinyl chloride	ND		2.0	µg/L	1	5/23/2013 10:51 AM
Xylenes, Total	ND		5.0	µg/L	1	5/23/2013 10:51 AM
Surr: 4-Bromofluorobenzene	99.6		61-131	%REC	1	5/23/2013 10:51 AM
Surr: Dibromofluoromethane	96.8		87-126	%REC	1	5/23/2013 10:51 AM
Surr: Toluene-d8	97.9		84-111	%REC	1	5/23/2013 10:51 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305472

Sample ID: SED-1-0001

Lab ID: 1305472-02

Collection Date: 5/20/2013 04:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	5/29/2013 04:50 AM
Aroclor 1221	ND		0.25	mg/Kg-dry	1	5/29/2013 04:50 AM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	5/29/2013 04:50 AM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	5/29/2013 04:50 AM
Aroclor 1248	ND		0.13	mg/Kg-dry	1	5/29/2013 04:50 AM
Aroclor 1254	ND		0.13	mg/Kg-dry	1	5/29/2013 04:50 AM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	5/29/2013 04:50 AM
Surr: Decachlorobiphenyl	98.0		22-156	%REC	1	5/29/2013 04:50 AM
Surr: Tetrachloro-m-xylene	100		34-145	%REC	1	5/29/2013 04:50 AM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	21		0.010	% of sample	1	5/22/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.38	mg/Kg-dry	1	5/28/2013 01:58 PM
METALS BY ICP			SW6010B		Prep Date: 5/22/2013	Analyst: VAW
Aluminum	2,700		630	mg/Kg-dry	1	5/22/2013 07:45 PM
Antimony	ND		3.8	mg/Kg-dry	1	5/22/2013 07:45 PM
Arsenic	ND		6.3	mg/Kg-dry	1	5/22/2013 07:45 PM
Barium	ND		13	mg/Kg-dry	1	5/22/2013 07:45 PM
Beryllium	0.18		0.025	mg/Kg-dry	1	5/22/2013 07:45 PM
Cadmium	ND		1.3	mg/Kg-dry	1	5/22/2013 07:45 PM
Calcium	18,000		630	mg/Kg-dry	1	5/22/2013 07:45 PM
Chromium	5.4		2.5	mg/Kg-dry	1	5/22/2013 07:45 PM
Cobalt	ND		6.3	mg/Kg-dry	1	5/22/2013 07:45 PM
Copper	12		6.3	mg/Kg-dry	1	5/22/2013 07:45 PM
Iron	9,700		130	mg/Kg-dry	1	5/22/2013 07:45 PM
Lead	10		6.3	mg/Kg-dry	1	5/22/2013 07:45 PM
Magnesium	5,400		130	mg/Kg-dry	1	5/22/2013 07:45 PM
Manganese	110		6.3	mg/Kg-dry	1	5/22/2013 07:45 PM
Nickel	8.5		6.3	mg/Kg-dry	1	5/22/2013 07:45 PM
Potassium	ND		630	mg/Kg-dry	1	5/22/2013 07:45 PM
Selenium	ND		3.8	mg/Kg-dry	1	5/22/2013 07:45 PM
Silver	ND		1.3	mg/Kg-dry	1	5/22/2013 07:45 PM
Sodium	ND		630	mg/Kg-dry	1	5/22/2013 07:45 PM
Thallium	ND		3.8	mg/Kg-dry	1	5/22/2013 07:45 PM
Vanadium	ND		6.3	mg/Kg-dry	1	5/22/2013 07:45 PM
Zinc	34		6.3	mg/Kg-dry	1	5/22/2013 07:45 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/28/2013	Analyst: Microb

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305472

Sample ID: SED-1-0001

Lab ID: 1305472-02

Collection Date: 5/20/2013 04:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		22	µg/Kg	1	5/31/2013 10:50 PM
4,4'-DDE	ND		22	µg/Kg	1	5/31/2013 10:50 PM
4,4'-DDT	ND		22	µg/Kg	1	5/31/2013 10:50 PM
Aldrin	ND		22	µg/Kg	1	5/31/2013 10:50 PM
alpha-BHC	ND		22	µg/Kg	1	5/31/2013 10:50 PM
alpha-Chlordane	ND		22	µg/Kg	1	5/31/2013 10:50 PM
beta-BHC	ND		22	µg/Kg	1	5/31/2013 10:50 PM
delta-BHC	ND		22	µg/Kg	1	5/31/2013 10:50 PM
Dieldrin	ND		22	µg/Kg	1	5/31/2013 10:50 PM
Endosulfan I	ND		22	µg/Kg	1	5/31/2013 10:50 PM
Endosulfan II	ND		22	µg/Kg	1	5/31/2013 10:50 PM
Endosulfan sulfate	ND		22	µg/Kg	1	5/31/2013 10:50 PM
Endrin	ND		22	µg/Kg	1	5/31/2013 10:50 PM
Endrin aldehyde	ND		22	µg/Kg	1	5/31/2013 10:50 PM
Endrin ketone	ND		22	µg/Kg	1	5/31/2013 10:50 PM
gamma-BHC (Lindane)	ND		22	µg/Kg	1	5/31/2013 10:50 PM
gamma-Chlordane	ND		22	µg/Kg	1	5/31/2013 10:50 PM
Heptachlor	ND		22	µg/Kg	1	5/31/2013 10:50 PM
Heptachlor epoxide	ND		22	µg/Kg	1	5/31/2013 10:50 PM
Methoxychlor	ND		22	µg/Kg	1	5/31/2013 10:50 PM
Toxaphene	ND		440	µg/Kg	1	5/31/2013 10:50 PM
<i>Surr: Decachlorobiphenyl</i>	53.1		33-140	%REC	1	5/31/2013 10:50 PM
<i>Surr: Tetrachloro-m-xylene</i>	61.4		39-130	%REC	1	5/31/2013 10:50 PM
HERBICIDES			SW8151		Prep Date: 5/29/2013	Analyst: Microb
2,4,5-T	ND		0.029	mg/Kg	1	6/3/2013 06:13 PM
2,4,5-TP (Silvex)	ND		0.022	mg/Kg	1	6/3/2013 06:13 PM
2,4-D	ND		0.29	mg/Kg	1	6/3/2013 06:13 PM
2,4-DB	ND		0.29	mg/Kg	1	6/3/2013 06:13 PM
Dalapon	ND		0.73	mg/Kg	1	6/3/2013 06:13 PM
Dicamba	ND		0.029	mg/Kg	1	6/3/2013 06:13 PM
Dichlorprop	ND		0.29	mg/Kg	1	6/3/2013 06:13 PM
Dinoseb	ND		0.15	mg/Kg	1	6/3/2013 06:13 PM
MCPA	ND		29	mg/Kg	1	6/3/2013 06:13 PM
MCPP	ND		29	mg/Kg	1	6/3/2013 06:13 PM
Pentachlorophenol	ND		0.029	mg/Kg	1	6/3/2013 06:13 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	116	S	25-110	%REC	1	6/3/2013 06:13 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 5/24/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
1,2,4-Trichlorobenzene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305472

Sample ID: SED-1-0001

Lab ID: 1305472-02

Collection Date: 5/20/2013 04:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
1,3-Dichlorobenzene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
1,3-Dinitrobenzene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
1,4-Dichlorobenzene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
1-Methylnaphthalene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
1-Naphthylamine	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
2,3,4,6-Tetrachlorophenol	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
2,4,5-Trichlorophenol	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
2,4,6-Trichlorophenol	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
2,4-Dichlorophenol	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
2,4-Dimethylphenol	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
2,4-Dinitrophenol	ND		2,100	µg/Kg-dry	1	5/25/2013 02:32 AM
2,4-Dinitrotoluene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
2,6-Dichlorophenol	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
2,6-Dinitrotoluene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
2-Acetylaminofluorene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
2-Chloronaphthalene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
2-Chlorophenol	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
2-Methylnaphthalene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
2-Methylphenol	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
2-Naphthylamine	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
2-Nitroaniline	ND		2,100	µg/Kg-dry	1	5/25/2013 02:32 AM
2-Nitrophenol	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
2-Picoline	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
3&4-Methylphenol	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
3,3'-Dichlorobenzidine	ND		830	µg/Kg-dry	1	5/25/2013 02:32 AM
3-Methylcholanthrene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
3-Nitroaniline	ND		2,100	µg/Kg-dry	1	5/25/2013 02:32 AM
4,6-Dinitro-2-methylphenol	ND		2,100	µg/Kg-dry	1	5/25/2013 02:32 AM
4-Aminobiphenyl	ND		830	µg/Kg-dry	1	5/25/2013 02:32 AM
4-Bromophenyl phenyl ether	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
4-Chloro-3-methylphenol	ND		830	µg/Kg-dry	1	5/25/2013 02:32 AM
4-Chloroaniline	ND		830	µg/Kg-dry	1	5/25/2013 02:32 AM
4-Chlorophenyl phenyl ether	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
4-Nitroaniline	ND		830	µg/Kg-dry	1	5/25/2013 02:32 AM
4-Nitrophenol	ND		2,100	µg/Kg-dry	1	5/25/2013 02:32 AM
4-Nitroquinoline 1-oxide	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
5-Nitro-o-toluidine	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
7,12-Dimethylbenz(a)anthracene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Acenaphthene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305472

Sample ID: SED-1-0001

Lab ID: 1305472-02

Collection Date: 5/20/2013 04:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Acetophenone	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Aniline	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Anthracene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Azobenzene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Benzidine	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Benzo(a)anthracene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Benzo(a)pyrene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Benzo(b)fluoranthene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Benzo(g,h,i)perylene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Benzo(k)fluoranthene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Benzyl alcohol	ND		830	µg/Kg-dry	1	5/25/2013 02:32 AM
Bis(2-chloroethoxy)methane	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Bis(2-chloroethyl)ether	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Bis(2-chloroisopropyl)ether	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Bis(2-ethylhexyl)phthalate	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Butyl benzyl phthalate	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Carbazole	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Chrysene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Dibenzo(a,h)anthracene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Dibenzofuran	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Diethyl phthalate	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Dimethyl phthalate	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Di-n-butyl phthalate	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Di-n-octyl phthalate	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Dinoseb	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Diphenylamine	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Ethyl methanesulfonate	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Fluoranthene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Fluorene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Hexachlorobenzene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Hexachlorobutadiene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Hexachlorocyclopentadiene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Hexachloroethane	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Indeno(1,2,3-cd)pyrene	ND		190	µg/Kg-dry	1	5/25/2013 02:32 AM
Isophorone	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Isosafrole	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Methapyrilene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Methyl methanesulfonate	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Naphthalene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305472

Sample ID: SED-1-0001

Lab ID: 1305472-02

Collection Date: 5/20/2013 04:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
N-Nitrosodiethylamine	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
N-Nitrosodimethylamine	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
N-Nitroso-di-n-butylamine	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
N-Nitrosodi-n-propylamine	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
N-Nitrosomethylethylamine	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
N-Nitrosomorpholine	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
N-Nitrosopiperidine	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
N-Nitrosopyrrolidine	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
o-Toluidine	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
p-Dimethylaminoazobenzene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Pentachlorobenzene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Pentachloroethane	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Pentachloronitrobenzene	ND		830	µg/Kg-dry	1	5/25/2013 02:32 AM
Pentachlorophenol	ND		2,100	µg/Kg-dry	1	5/25/2013 02:32 AM
Phenacetin	ND		830	µg/Kg-dry	1	5/25/2013 02:32 AM
Phenanthrene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Phenol	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Pyrene	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Pyridine	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
Safrole	ND		420	µg/Kg-dry	1	5/25/2013 02:32 AM
<i>Surr: 2,4,6-Tribromophenol</i>	82.9		18-115	%REC	1	5/25/2013 02:32 AM
<i>Surr: 2-Fluorobiphenyl</i>	65.5		30-116	%REC	1	5/25/2013 02:32 AM
<i>Surr: 2-Fluorophenol</i>	46.2		24-105	%REC	1	5/25/2013 02:32 AM
<i>Surr: 4-Terphenyl-d14</i>	64.1		40-127	%REC	1	5/25/2013 02:32 AM
<i>Surr: Nitrobenzene-d5</i>	69.6		32-106	%REC	1	5/25/2013 02:32 AM
<i>Surr: Phenol-d5</i>	55.9		39-123	%REC	1	5/25/2013 02:32 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/22/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
1,1,1-Trichloroethane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
1,1,2,2-Tetrachloroethane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
1,1,2-Trichloroethane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
1,1-Dichloroethane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
1,1-Dichloroethene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
1,1-Dichloropropene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
1,2,3-Trichlorobenzene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
1,2,3-Trichloropropane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
1,2,4-Trichlorobenzene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
1,2,4-Trimethylbenzene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
1,2-Dibromo-3-chloropropane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305472

Sample ID: SED-1-0001

Lab ID: 1305472-02

Collection Date: 5/20/2013 04:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
1,2-Dichlorobenzene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
1,2-Dichloroethane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
1,2-Dichloropropane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
1,3,5-Trimethylbenzene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
1,3-Dichlorobenzene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
1,3-Dichloropropane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
1,4-Dichlorobenzene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
2,2-Dichloropropane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
2-Butanone	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
2-Chlorotoluene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
2-Hexanone	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
4-Chlorotoluene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
4-Methyl-2-pentanone	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Acetone	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Benzene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Bromobenzene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Bromochloromethane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Bromodichloromethane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Bromoform	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Bromomethane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Carbon disulfide	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Carbon tetrachloride	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Chlorobenzene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Chloroethane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Chloroform	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Chloromethane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
cis-1,2-Dichloroethene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
cis-1,3-Dichloropropene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Dibromochloromethane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Dibromomethane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Dichlorodifluoromethane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Ethylbenzene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Hexachlorobutadiene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Isopropylbenzene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
m,p-Xylene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Methyl tert-butyl ether	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Methylene chloride	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Naphthalene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
n-Butylbenzene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305472

Sample ID: SED-1-0001

Lab ID: 1305472-02

Collection Date: 5/20/2013 04:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
o-Xylene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
p-Isopropyltoluene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
sec-Butylbenzene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Styrene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
tert-Butylbenzene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Tetrachloroethene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Toluene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
trans-1,2-Dichloroethene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
trans-1,3-Dichloropropene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Trichloroethene	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Trichlorofluoromethane	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Vinyl chloride	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Xylenes, Total	ND		4.6	µg/Kg-dry	1	5/23/2013 05:24 PM
Surr: 4-Bromofluorobenzene	108		62.7-159	%REC	1	5/23/2013 05:24 PM
Surr: Dibromofluoromethane	118		88.2-133	%REC	1	5/23/2013 05:24 PM
Surr: Toluene-d8	98.8		81.5-110	%REC	1	5/23/2013 05:24 PM
TOTAL ORGANIC CARBON BY WALKLEY-BLACK						
Total Organic Carbon	1.0		0.025	%	1	Analyst: KMW 5/29/2013

Note:

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16791** Instrument ID: **GC9** Method: **SW8082**

MBLK		Sample ID: MBLK-16791-16791			Units: µg/L		Analysis Date: 5/24/2013			
Client ID:		Run ID: GC9_130524A			SeqNo: 615464		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.50								
Aroclor 1221	ND	0.50								
Aroclor 1232	ND	0.50								
Aroclor 1242	ND	0.50								
Aroclor 1248	ND	0.50								
Aroclor 1254	ND	0.50								
Aroclor 1260	ND	0.50								
Surr: Decachlorobiphenyl	0.2	0	0.25	0	80	37-108	0			
Surr: Tetrachloro-m-xylene	0.188	0	0.25	0	75.2	9-136	0			

LCS		Sample ID: LCS-16791-16791			Units: µg/L		Analysis Date: 5/24/2013			
Client ID:		Run ID: GC9_130524A			SeqNo: 615465		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	9.787	0.50	10	0	97.9	61-122	0			
Surr: Decachlorobiphenyl	0.192	0	0.25	0	76.8	37-108	0			
Surr: Tetrachloro-m-xylene	0.196	0	0.25	0	78.4	9-136	0			

The following samples were analyzed in this batch: 1305472-01B

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16868 Instrument ID: GC9 Method: SW8082

MBLK		Sample ID: MBLK-16868-16868			Units: mg/Kg		Analysis Date: 5/29/2013 01:00 PM			
Client ID:		Run ID: GC9_130529A			SeqNo: 617273		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
<i>Surr: Decachlorobiphenyl</i>	0.0948	0	0.1	0	94.8	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0962	0	0.1	0	96.2	34-145	0			

LCS		Sample ID: LCS-16868-16868			Units: mg/Kg		Analysis Date: 5/29/2013 01:00 PM			
Client ID:		Run ID: GC9_130529A			SeqNo: 617274		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.423	0.10	2	0	121	50-133	0			
<i>Surr: Decachlorobiphenyl</i>	0.1012	0	0.1	0	101	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.1162	0	0.1	0	116	34-145	0			

MS		Sample ID: MS 1305450-23A			Units: mg/Kg		Analysis Date: 5/29/2013 01:00 PM			
Client ID:		Run ID: GC9_130529A			SeqNo: 617275		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.199	0.099	1.984	0	111	31-150	0			
<i>Surr: Decachlorobiphenyl</i>	0.09187	0	0.09921	0	92.6	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.09167	0	0.09921	0	92.4	34-145	0			

MSD		Sample ID: MSD 1305450-23A			Units: mg/Kg		Analysis Date: 5/29/2013 01:00 PM			
Client ID:		Run ID: GC9_130529A			SeqNo: 617276		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.298	0.10	1.992	0	115	31-150	0			
<i>Surr: Decachlorobiphenyl</i>	0.09681	0	0.0996	0	97.2	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.09801	0	0.0996	0	98.4	34-145	0			

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16797 Instrument ID: HG1 Method: SW7471A

MBLK	Sample ID: MBLK-16797-16797					Units: mg/Kg	Analysis Date: 5/28/2013 01:33 PM			
Client ID:	Run ID: HG1_130528A					SeqNo: 615857	Prep Date: 5/23/2013	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.30

LCS	Sample ID: LCS-16797-16797					Units: mg/Kg	Analysis Date: 5/28/2013 01:29 PM			
Client ID:	Run ID: HG1_130528A					SeqNo: 615855	Prep Date: 5/23/2013	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 1.149 0.30 1.109 0 104 69-147 0

LCSD	Sample ID: LCSD-16797-16797					Units: mg/Kg	Analysis Date: 5/28/2013 01:31 PM			
Client ID:	Run ID: HG1_130528A					SeqNo: 615856	Prep Date: 5/23/2013	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 1.168 0.29 1.09 0 107 69-147 1.149 1.64 20

MS	Sample ID: 1305449-01D MS					Units: mg/Kg	Analysis Date: 5/28/2013 01:37 PM			
Client ID:	Run ID: HG1_130528A					SeqNo: 615859	Prep Date: 5/23/2013	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.8443 0.29 0.8007 0.03326 101 69-147 0

MSD	Sample ID: 1305449-01D MSD					Units: mg/Kg	Analysis Date: 5/28/2013 01:39 PM			
Client ID:	Run ID: HG1_130528A					SeqNo: 615860	Prep Date: 5/23/2013	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.8156 0.28 0.7824 0.03326 100 69-147 0.8443 3.46 20

The following samples were analyzed in this batch:

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16800 Instrument ID: HG1 Method: SW7470A

MBLK		Sample ID: MBLK-16800-16800			Units: µg/L		Analysis Date: 5/28/2013 05:38 PM			
Client ID:		Run ID: HG1_130528C			SeqNo: 616102		Prep Date: 5/27/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.50

LCS		Sample ID: LCS-16800-16800			Units: µg/L		Analysis Date: 5/28/2013 05:34 PM			
Client ID:		Run ID: HG1_130528C			SeqNo: 616100		Prep Date: 5/27/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 4.98 0.50 5 0 99.6 80-120 0

LCSD		Sample ID: LCSD-16800-16800			Units: µg/L		Analysis Date: 5/28/2013 05:36 PM			
Client ID:		Run ID: HG1_130528C			SeqNo: 616101		Prep Date: 5/27/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 4.87 0.50 5 0 97.4 80-120 4.98 2.23 20

MS		Sample ID: 1305448-01C MS			Units: µg/L		Analysis Date: 5/28/2013 05:42 PM			
Client ID:		Run ID: HG1_130528C			SeqNo: 616104		Prep Date: 5/27/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 4.68 0.50 5 -0.04 94.4 75-125 0

MSD		Sample ID: 1305448-01C MSD			Units: µg/L		Analysis Date: 5/28/2013 05:44 PM			
Client ID:		Run ID: HG1_130528C			SeqNo: 616105		Prep Date: 5/27/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 4.89 0.50 5 -0.04 98.6 75-125 4.68 4.39 20

The following samples were analyzed in this batch:

Client: AECOM
Work Order: 1305472
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16775** Instrument ID: **ICP3** Method: **SW6010B**

MBLK		Sample ID: mblk-16775-16775			Units: mg/L		Analysis Date: 5/22/2013 05:51 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 613266		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.20								
Antimony	ND	0.030								
Arsenic	ND	0.010								
Barium	ND	0.10								
Beryllium	ND	0.00040								
Cadmium	ND	0.0050								
Calcium	ND	0.20								
Chromium	ND	0.020								
Cobalt	ND	0.025								
Copper	ND	0.025								
Iron	ND	0.20								
Lead	ND	0.015								
Magnesium	ND	0.20								
Manganese	ND	0.050								
Nickel	ND	0.050								
Potassium	ND	0.20								
Selenium	ND	0.030								
Silver	ND	0.010								
Sodium	ND	0.20								
Thallium	ND	0.0020								
Vanadium	ND	0.050								
Zinc	ND	0.050								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305472
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16775** Instrument ID: **ICP3** Method: **SW6010B**

LCS	Sample ID: ics-16775-16775			Units: mg/L			Analysis Date: 5/22/2013 06:10 PM			
Client ID:	Run ID: ICP3_130522D			SeqNo: 613267			Prep Date: 5/22/2013	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.119	0.20	1.1	0	102	80-120	0			
Antimony	1.017	0.030	1.1	0	92.5	80-120	0			
Arsenic	1.042	0.010	1.1	0	94.8	80-120	0			
Barium	1.1	0.10	1.1	0	100	80-120	0			
Beryllium	0.9937	0.00040	1.1	0	90.3	80-120	0			
Cadmium	1.076	0.0050	1.1	0	97.8	80-120	0			
Calcium	1.018	0.20	1.1	0	92.5	80-120	0			
Chromium	1.063	0.020	1.1	0	96.6	80-120	0			
Cobalt	1.049	0.025	1.1	0	95.4	80-120	0			
Copper	1.037	0.025	1.1	0	94.2	80-120	0			
Iron	1.021	0.20	1.1	0	92.8	80-120	0			
Lead	1.093	0.015	1.1	0	99.4	80-120	0			
Magnesium	1.019	0.20	1.1	0	92.7	80-120	0			
Manganese	0.98	0.050	1.1	0	89.1	80-120	0			
Nickel	1.026	0.050	1.1	0	93.3	80-120	0			
Potassium	10.45	0.20	11	0	95	80-120	0			
Selenium	1.057	0.030	1.1	0	96.1	80-120	0			
Silver	1.072	0.010	1.1	0	97.5	80-120	0			
Sodium	1.055	0.20	1.1	0	95.9	80-120	0			
Thallium	1.01	0.0020	1.1	0	91.8	80-120	0			
Vanadium	0.97	0.050	1.1	0	88.2	80-120	0			
Zinc	1.028	0.050	1.1	0	93.5	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16775 Instrument ID: ICP3 Method: SW6010B

LCSD	Sample ID: Icsd-16775-16775			Units: mg/L		Analysis Date: 5/22/2013 06:16 PM				
Client ID:	Run ID: ICP3_130522D			SeqNo: 613268		Prep Date: 5/22/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.076	0.20	1.1	0	97.8	80-120	1.119	3.88	20	
Antimony	1.022	0.030	1.1	0	92.9	80-120	1.017	0.442	20	
Arsenic	1.06	0.010	1.1	0	96.4	80-120	1.042	1.66	20	
Barium	1.116	0.10	1.1	0	102	80-120	1.1	1.49	20	
Beryllium	0.9925	0.00040	1.1	0	90.2	80-120	0.9937	0.122	20	
Cadmium	1.078	0.0050	1.1	0	98	80-120	1.076	0.123	20	
Calcium	1.016	0.20	1.1	0	92.4	80-120	1.018	0.162	20	
Chromium	1.074	0.020	1.1	0	97.6	80-120	1.063	1.05	20	
Cobalt	1.053	0.025	1.1	0	95.7	80-120	1.049	0.304	20	
Copper	1.046	0.025	1.1	0	95.1	80-120	1.037	0.877	20	
Iron	1.029	0.20	1.1	0	93.5	80-120	1.021	0.751	20	
Lead	1.098	0.015	1.1	0	99.9	80-120	1.093	0.482	20	
Magnesium	1.016	0.20	1.1	0	92.4	80-120	1.019	0.313	20	
Manganese	0.9814	0.050	1.1	0	89.2	80-120	0.98	0.146	20	
Nickel	1.037	0.050	1.1	0	94.3	80-120	1.026	1.03	20	
Potassium	10.42	0.20	11	0	94.8	80-120	10.45	0.232	20	
Selenium	1.066	0.030	1.1	0	96.9	80-120	1.057	0.902	20	
Silver	1.082	0.010	1.1	0	98.4	80-120	1.072	0.919	20	
Sodium	1.095	0.20	1.1	0	99.6	80-120	1.055	3.74	20	
Thallium	1.023	0.0020	1.1	0	93	80-120	1.01	1.23	20	
Vanadium	0.9798	0.050	1.1	0	89.1	80-120	0.97	1	20	
Zinc	1.038	0.050	1.1	0	94.3	80-120	1.028	0.916	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305472
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16775** Instrument ID: **ICP3** Method: **SW6010B**

MS		Sample ID: 1305472-01f ms			Units: mg/L		Analysis Date: 5/22/2013 06:35 PM			
Client ID: SW-1-052013		Run ID: ICP3_130522D			SeqNo: 613271		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.155	0.20	1.1	-0.008719	106	75-125	0			
Antimony	1.032	0.030	1.1	0.003116	93.5	75-125	0			
Arsenic	1.084	0.010	1.1	-0.0002893	98.6	75-125	0			
Barium	1.068	0.10	1.1	0.02482	94.8	75-125	0			
Beryllium	1.03	0.00040	1.1	-0.00005097	93.6	75-125	0			
Cadmium	1.059	0.0050	1.1	-0.00004726	96.3	75-125	0			
Calcium	498.7	0.20	1.1	503.8	-460	75-125	0			SO
Chromium	1.019	0.020	1.1	0.002548	92.4	75-125	0			
Cobalt	0.9535	0.025	1.1	-0.0001107	86.7	75-125	0			
Copper	1.001	0.025	1.1	0.0007931	90.9	75-125	0			
Iron	1.108	0.20	1.1	0.06811	94.5	75-125	0			
Lead	0.9811	0.015	1.1	0.004088	88.8	75-125	0			
Magnesium	58.67	0.20	1.1	58.49	17	75-125	0			SO
Manganese	1.022	0.050	1.1	0.0198	91.1	75-125	0			
Nickel	0.9337	0.050	1.1	0.0004301	84.8	75-125	0			
Potassium	13.97	0.20	11	2.805	102	75-125	0			
Selenium	1.093	0.030	1.1	0.001659	99.2	75-125	0			
Silver	1.055	0.010	1.1	-0.0008612	96	75-125	0			
Sodium	14.68	0.20	1.1	13.73	87	75-125	0			O
Thallium	0.8747	0.0020	1.1	0.0007917	79.4	75-125	0			
Vanadium	1.012	0.050	1.1	-0.004051	92.4	75-125	0			
Zinc	0.9898	0.050	1.1	0.03115	87.1	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16775 Instrument ID: ICP3 Method: SW6010B

MSD		Sample ID: 1305472-01f msd			Units: mg/L		Analysis Date: 5/22/2013 06:42 PM			
Client ID: SW-1-052013		Run ID: ICP3_130522D			SeqNo: 613272		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.179	0.20	1.1	-0.008719	108	75-125	1.155	2.07	20	
Antimony	1.024	0.030	1.1	0.003116	92.8	75-125	1.032	0.813	20	
Arsenic	1.076	0.010	1.1	-0.0002893	97.9	75-125	1.084	0.713	20	
Barium	1.064	0.10	1.1	0.02482	94.5	75-125	1.068	0.32	20	
Beryllium	1.016	0.00040	1.1	-0.00005097	92.3	75-125	1.03	1.39	20	
Cadmium	1.059	0.0050	1.1	-0.00004726	96.3	75-125	1.059	0.0104	20	
Calcium	500.9	0.20	1.1	503.8	-260	75-125	498.7	0.44	20	SO
Chromium	1.008	0.020	1.1	0.002548	91.4	75-125	1.019	1.11	20	
Cobalt	0.9495	0.025	1.1	-0.0001107	86.3	75-125	0.9535	0.416	20	
Copper	0.9876	0.025	1.1	0.0007931	89.7	75-125	1.001	1.36	20	
Iron	1.095	0.20	1.1	0.06811	93.3	75-125	1.108	1.18	20	
Lead	0.9744	0.015	1.1	0.004088	88.2	75-125	0.9811	0.686	20	
Magnesium	58.37	0.20	1.1	58.49	-11	75-125	58.67	0.526	20	SO
Manganese	0.9957	0.050	1.1	0.0198	88.7	75-125	1.022	2.56	20	
Nickel	0.9276	0.050	1.1	0.0004301	84.3	75-125	0.9337	0.65	20	
Potassium	14.1	0.20	11	2.805	103	75-125	13.97	0.94	20	
Selenium	1.087	0.030	1.1	0.001659	98.7	75-125	1.093	0.535	20	
Silver	1.056	0.010	1.1	-0.0008612	96	75-125	1.055	0.0625	20	
Sodium	14.76	0.20	1.1	13.73	94	75-125	14.68	0.523	20	O
Thallium	0.8667	0.0020	1.1	0.0007917	78.7	75-125	0.8747	0.922	20	
Vanadium	1.002	0.050	1.1	-0.004051	91.5	75-125	1.012	1.02	20	
Zinc	0.9878	0.050	1.1	0.03115	87	75-125	0.9898	0.2	20	

The following samples were analyzed in this batch:

1305472-01f

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305472
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16776** Instrument ID: **ICP3** Method: **SW6010B**

MBLK		Sample ID: mblk-16776-16776			Units: mg/Kg		Analysis Date: 5/22/2013 07:02 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 613301		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500								
Antimony	ND	3.0								
Arsenic	ND	5.0								
Barium	ND	10								
Beryllium	ND	0.50								
Cadmium	ND	1.0								
Calcium	ND	500								
Chromium	ND	2.0								
Cobalt	ND	5.0								
Copper	ND	5.0								
Iron	ND	100								
Lead	ND	5.0								
Magnesium	ND	100								
Manganese	ND	5.0								
Nickel	ND	5.0								
Potassium	ND	500								
Selenium	ND	3.0								
Silver	ND	1.0								
Sodium	ND	500								
Thallium	ND	3.0								
Vanadium	ND	5.0								
Zinc	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305472
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16776** Instrument ID: **ICP3** Method: **SW6010B**

LCS		Sample ID: ics-16776-16776			Units: mg/Kg		Analysis Date: 5/22/2013 07:08 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 613302		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500	100	0	99.3	80-120	0			
Antimony	96.52	3.0	100	0	96.5	80-120	0			
Arsenic	100.5	5.0	100	0	100	80-120	0			
Barium	105.1	10	100	0	105	80-120	0			
Beryllium	94.44	0.50	100	0	94.4	80-120	0			
Cadmium	102.4	1.0	100	0	102	80-120	0			
Calcium	ND	500	100	0	95.7	80-120	0			
Chromium	101.6	2.0	100	0	102	80-120	0			
Cobalt	99.94	5.0	100	0	99.9	80-120	0			
Copper	98.94	5.0	100	0	98.9	80-120	0			
Iron	ND	100	100	0	97	80-120	0			
Lead	104.8	5.0	100	0	105	80-120	0			
Magnesium	ND	100	100	0	95.2	80-120	0			
Manganese	94.33	5.0	100	0	94.3	80-120	0			
Nickel	98	5.0	100	0	98	80-120	0			
Potassium	977.8	500	1000	0	97.8	80-120	0			
Selenium	103.4	3.0	100	0	103	80-120	0			
Silver	101.8	1.0	100	0	102	80-120	0			
Sodium	ND	500	100	0	101	80-120	0			
Thallium	96.12	3.0	100	0	96.1	80-120	0			
Vanadium	92.11	5.0	100	0	92.1	80-120	0			
Zinc	98.85	5.0	100	0	98.8	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16776 Instrument ID: ICP3 Method: SW6010B

LCSD	Sample ID: Icsd-16776-16776	Units: mg/Kg					Analysis Date: 5/22/2013 07:27 PM				
Client ID:	Run ID: ICP3_130522D	SeqNo: 613303			Prep Date: 5/22/2013	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aluminum	ND	500	100	0	104	80-120	99.32	0	20		
Antimony	95.59	3.0	100	0	95.6	80-120	96.52	0.968	20		
Arsenic	99.34	5.0	100	0	99.3	80-120	100.5	1.16	20		
Barium	103.9	10	100	0	104	80-120	105.1	1.15	20		
Beryllium	92.87	0.50	100	0	92.9	80-120	94.44	1.68	20		
Cadmium	101	1.0	100	0	101	80-120	102.4	1.38	20		
Calcium	ND	500	100	0	94.8	80-120	95.74	0	20		
Chromium	100.1	2.0	100	0	100	80-120	101.6	1.49	20		
Cobalt	98.31	5.0	100	0	98.3	80-120	99.94	1.64	20		
Copper	97.68	5.0	100	0	97.7	80-120	98.94	1.28	20		
Iron	ND	100	100	0	95.8	80-120	97.02	0	20		
Lead	103	5.0	100	0	103	80-120	104.8	1.73	20		
Magnesium	ND	100	100	0	94.2	80-120	95.21	0	20		
Manganese	91.44	5.0	100	0	91.4	80-120	94.33	3.11	20		
Nickel	96.91	5.0	100	0	96.9	80-120	98	1.12	20		
Potassium	981.2	500	1000	0	98.1	80-120	977.8	0.347	20		
Selenium	101.1	3.0	100	0	101	80-120	103.4	2.25	20		
Silver	101.8	1.0	100	0	102	80-120	101.8	0	20		
Sodium	ND	500	100	0	100	80-120	100.9	0	20		
Thallium	95.97	3.0	100	0	96	80-120	96.12	0.156	20		
Vanadium	91.24	5.0	100	0	91.2	80-120	92.11	0.949	20		
Zinc	97.55	5.0	100	0	97.6	80-120	98.85	1.32	20		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16776 Instrument ID: ICP3 Method: SW6010B

MS		Sample ID: 1305472-02c ms			Units: mg/Kg		Analysis Date: 5/22/2013 07:51 PM			
Client ID: SED-1-0001		Run ID: ICP3_130522D			SeqNo: 613307		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	2815	490	98.83	2144	678	80-120	0			SO
Antimony	88.42	3.0	98.83	-0.04489	89.5	75-125	0			
Arsenic	97.53	4.9	98.83	4.111	94.5	75-125	0			
Barium	100.5	9.9	98.83	8.933	92.7	75-125	0			
Beryllium	91.68	0.49	98.83	0.142	92.6	75-125	0			
Cadmium	95.33	0.99	98.83	0.05029	96.4	75-125	0			
Calcium	21870	490	98.83	13960	8010	75-125	0			SO
Chromium	98.48	2.0	98.83	4.291	95.3	75-125	0			
Cobalt	88.02	4.9	98.83	2.601	86.4	75-125	0			
Copper	96.31	4.9	98.83	9.292	88	75-125	0			
Iron	6526	99	98.83	7696	-1180	75-125	0			SO
Lead	94.27	4.9	98.83	8.241	87	75-125	0			
Magnesium	9077	99	98.83	4301	4830	75-125	0			SO
Manganese	164.3	4.9	98.83	87.31	77.9	75-125	0			
Nickel	90.05	4.9	98.83	6.758	84.3	75-125	0			
Selenium	95.75	3.0	98.83	0.677	96.2	75-125	0			
Silver	94.88	0.99	98.83	-0.1358	96.1	75-125	0			
Sodium	ND	490	98.83	32.8	117	75-125	0			
Thallium	80.35	3.0	98.83	0.08992	81.2	75-125	0			
Vanadium	94.4	4.9	98.83	4.015	91.4	75-125	0			
Zinc	322.7	4.9	98.83	26.92	299	75-125	0			S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16776 Instrument ID: ICP3 Method: SW6010B

MSD		Sample ID: 1305472-02c msd			Units: mg/Kg		Analysis Date: 5/22/2013 07:57 PM			
Client ID: SED-1-0001		Run ID: ICP3_130522D			SeqNo: 613308		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	2711	500	99.07	2144	572	75-125	2815	3.77	20	SO
Antimony	88.89	3.0	99.07	-0.04489	89.8	75-125	88.42	0.539	20	
Arsenic	98.35	5.0	99.07	4.111	95.1	75-125	97.53	0.834	20	
Barium	117.3	9.9	99.07	8.933	109	75-125	100.5	15.4	20	
Beryllium	91.42	0.50	99.07	0.142	92.1	75-125	91.68	0.281	20	
Cadmium	95.46	0.99	99.07	0.05029	96.3	75-125	95.33	0.144	20	
Calcium	18890	500	99.07	13960	4980	75-125	21870	14.6	20	SO
Chromium	96.68	2.0	99.07	4.291	93.3	75-125	98.48	1.84	20	
Cobalt	89.49	5.0	99.07	2.601	87.7	75-125	88.02	1.65	20	
Copper	96.93	5.0	99.07	9.292	88.5	75-125	96.31	0.637	20	
Iron	7174	99	99.07	7696	-528	75-125	6526	9.45	20	SO
Lead	95.64	5.0	99.07	8.241	88.2	75-125	94.27	1.45	20	
Magnesium	5609	99	99.07	4301	1320	75-125	9077	47.2	20	SRO
Manganese	226.8	5.0	99.07	87.31	141	75-125	164.3	32	20	SR
Nickel	91.96	5.0	99.07	6.758	86	75-125	90.05	2.1	20	
Potassium	1322	500	99.07	288.6	104	75-125	1313	0.688	20	
Selenium	96.09	3.0	99.07	0.677	96.3	75-125	95.75	0.351	20	
Silver	94.87	0.99	99.07	-0.1358	95.9	75-125	94.88	0.0128	20	
Sodium	ND	500	99.07	32.8	108	75-125	148.5	0	20	
Thallium	81.97	3.0	99.07	0.08992	82.6	75-125	80.35	1.99	20	
Vanadium	94.14	5.0	99.07	4.015	91	75-125	94.4	0.277	20	
Zinc	115.6	5.0	99.07	26.92	89.5	75-125	322.7	94.5	20	R

The following samples were analyzed in this batch:

1305472-02c

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99697a** Instrument ID: **SUB** Method: **SW8081A**

MBLK		Sample ID: MBLK1-R99697a			Units: µg/L		Analysis Date: 5/30/2013 02:02 PM			
Client ID:		Run ID: SUB_130531H			SeqNo: 624558		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	0.050								
4,4'-DDE	ND	0.050								
4,4'-DDT	ND	0.050								
Aldrin	ND	0.050								
alpha Chlordane	ND	0.050								
alpha-BHC	ND	0.050								
beta-BHC	ND	0.050								
delta-BHC	ND	0.050								
Dieldrin	ND	0.050								
Endosulfan I	ND	0.050								
Endosulfan II	ND	0.050								
Endosulfan sulfate	ND	0.050								
Endrin	ND	0.050								
Endrin aldehyde	ND	0.050								
Endrin ketone	ND	0.050								
gamma Chlordane	ND	0.050								
gamma-BHC (Lindane)	ND	0.050								
Heptachlor	ND	0.050								
Heptachlor epoxide	ND	0.050								
Methoxychlor	ND	0.050								
Toxaphene	ND	1.0								
<i>Surr: Decachlorobiphenyl</i>	55.3	0	100	0	55.3	20-180	0			
<i>Surr: Tetrachloro-m-xylene</i>	54.1	0	100	0	54.1	25-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99697a** Instrument ID: **SUB** Method: **SW8081A**

LCS		Sample ID: LCS-R99697a			Units: µg/L		Analysis Date: 5/30/2013 02:30 PM			
Client ID:		Run ID: SUB_130531H			SeqNo: 624559		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.306	0.050	0.5	0	61.2	40-125	0			
4,4'-DDE	0.307	0.050	0.5	0	61.4	40-120	0			
4,4'-DDT	0.334	0.050	0.5	0	66.8	40-125	0			
Aldrin	0.286	0.050	0.5	0	57.2	30-110	0			
alpha Chlordane	0.329	0.050	0.5	0	65.8	40-120	0			
alpha-BHC	0.266	0.050	0.5	0	53.2	30-120	0			
beta-BHC	0.298	0.050	0.5	0	59.6	30-115	0			
delta-BHC	0.288	0.050	0.5	0	57.6	35-130	0			
Dieldrin	0.311	0.050	0.5	0	62.2	40-125	0			
Endosulfan I	0.243	0.050	0.5	0	48.6	30-110	0			
Endosulfan II	0.26	0.050	0.5	0	52	30-110	0			
Endosulfan sulfate	0.361	0.050	0.5	0	72.2	35-125	0			
Endrin	0.295	0.050	0.5	0	59	35-120	0			
Endrin aldehyde	0.254	0.050	0.5	0	50.8	30-120	0			
Endrin ketone	0.33	0.050	0.5	0	66	40-125	0			
gamma Chlordane	0.328	0.050	0.5	0	65.6	40-120	0			
gamma-BHC (Lindane)	0.267	0.050	0.5	0	53.4	30-120	0			
Heptachlor	0.31	0.050	0.5	0	62	35-115	0			
Heptachlor epoxide	0.329	0.050	0.5	0	65.8	35-115	0			
Methoxychlor	0.371	0.050	0.5	0	74.2	30-150	0			
<i>Surr: Decachlorobiphenyl</i>	45.2	0	100	0	45.2	25-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	47	0	100	0	47	20-180	0			

LCS		Sample ID: LCS-R99697a			Units: µg/L		Analysis Date: 5/30/2013 02:58 PM			
Client ID:		Run ID: SUB_130531H			SeqNo: 624572		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Toxaphene	1.78	1.0	2	0	89	41-126	0			
<i>Surr: Decachlorobiphenyl</i>	49.1	0	100	0	49.1	25-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	53.7	0	100	0	53.7	20-180	0			

The following samples were analyzed in this batch: 1305472-01C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99697b** Instrument ID: **SUB** Method: **SW8081A**

MBLK		Sample ID: MB-R99697-R99697b			Units: µg/Kg		Analysis Date: 5/31/2013 02:02 PM			
Client ID:		Run ID: SUB_130531H			SeqNo: 624563		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	1.6								
4,4'-DDE	ND	1.6								
4,4'-DDT	ND	1.6								
Aldrin	ND	1.6								
alpha-BHC	ND	1.6								
alpha-Chlordane	ND	1.6								
beta-BHC	ND	1.6								
delta-BHC	ND	1.6								
Dieldrin	ND	1.6								
Endosulfan I	ND	1.6								
Endosulfan II	ND	1.6								
Endosulfan sulfate	ND	1.6								
Endrin	ND	1.6								
Endrin aldehyde	ND	1.6								
Endrin ketone	ND	1.6								
gamma-BHC (Lindane)	ND	1.6								
gamma-Chlordane	ND	1.6								
Heptachlor	ND	1.6								
Heptachlor epoxide	ND	1.6								
Methoxychlor	ND	1.6								
Toxaphene	ND	33								
<i>Surr: Decachlorobiphenyl</i>	81.2	0	100	0	81.2	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	53.7	0	100	0	53.7	39-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99697b** Instrument ID: **SUB** Method: **SW8081A**

LCS		Sample ID: LCS-R99697-R99697b			Units: µg/Kg		Analysis Date: 5/31/2013 02:30 PM			
Client ID:		Run ID: SUB_130531H			SeqNo: 624564		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	13	1.6	16.7	0	77.8	60-110	0			
4,4'-DDE	12.8	1.6	16.7	0	76.6	55-110	0			
4,4'-DDT	14.9	1.6	16.7	0	89.2	60-115	0			
Aldrin	11.6	1.6	16.7	0	69.5	50-100	0			
alpha-BHC	12.5	1.6	16.7	0	74.9	55-105	0			
alpha-Chlordane	11.8	1.6	16.7	0	70.7	50-100	0			
beta-BHC	12.3	1.6	16.7	0	73.7	50-100	0			
delta-BHC	12.4	1.6	16.7	0	74.3	50-110	0			
Dieldrin	12.6	1.6	16.7	0	75.4	60-110	0			
Endosulfan I	9.78	1.6	16.7	0	58.6	40-100	0			
Endosulfan II	10.5	1.6	16.7	0	62.9	40-100	0			
Endosulfan sulfate	12.4	1.6	16.7	0	74.3	45-115	0			
Endrin	12.9	1.6	16.7	0	77.2	55-100	0			
Endrin aldehyde	11.4	1.6	16.7	0	68.3	45-110	0			
Endrin ketone	12.9	1.6	16.7	0	77.2	55-115	0			
gamma-BHC (Lindane)	14.2	1.6	16.7	0	85	50-110	0			
gamma-Chlordane	12.2	1.6	16.7	0	73.1	50-100	0			
Heptachlor	12.2	1.6	16.7	0	73.1	50-105	0			
Heptachlor epoxide	13.3	1.6	16.7	0	79.6	55-105	0			
Methoxychlor	19.9	1.6	16.7	0	119	60-125	0			
<i>Surr: Decachlorobiphenyl</i>	85.5	0	100	0	85.5	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	60.5	0	100	0	60.5	39-130	0			

LCS		Sample ID: LCS-R99697b			Units: µg/Kg		Analysis Date: 5/31/2013 02:58 PM			
Client ID:		Run ID: SUB_130531H			SeqNo: 624573		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Toxaphene	47.3	33	66.7	0	70.9	25-138	0			
<i>Surr: Decachlorobiphenyl</i>	76	0	100	0	76	33-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	48	0	100	0	48	39-130	0			

The following samples were analyzed in this batch: 1305472-02D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99697c** Instrument ID: **SUB** Method: **SW8151**

MBLK		Sample ID: MB-R99697-R99697c			Units: µg/L		Analysis Date: 5/29/2013 04:33 PM			
Client ID:		Run ID: SUB_130531H			SeqNo: 624566		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	ND	0.20								
2,4,5-TP (Silvex)	ND	0.20								
2,4-D	ND	2.0								
2,4-DB	ND	2.0								
Dalapon	ND	5.0								
Dicamba	ND	0.20								
Dichlorprop	ND	2.0								
Dinoseb	ND	1.0								
MCPA	ND	250								
MCPP	ND	250								
Pentachlorophenol	ND	0.20								
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	101	0	100	0	101	20-144	0			

LCS		Sample ID: LCS-R99697-R99697c			Units: µg/L		Analysis Date: 5/29/2013 04:59 PM			
Client ID:		Run ID: SUB_130531H			SeqNo: 624567		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	0.329	0.20	0.5	0	65.8	30-110	0			
2,4,5-TP (Silvex)	0.355	0.20	0.5	0	71	30-110	0			
2,4-D	3.08	2.0	5	0	61.6	30-100	0			
2,4-DB	2.55	2.0	5	0	51	30-110	0			
Dalapon	ND	5.0	12.5	0	32.7	10-100	0			
Dicamba	0.476	0.20	0.5	0	95.2	30-135	0			
Dichlorprop	4.2	2.0	5	0	84	25-115	0			
Dinoseb	1.72	1.0	2.5	0	68.8	30-105	0			
MCPA	320	250	500	0	64	25-100	0			
MCPP	346	250	500	0	69.2	30-120	0			
Pentachlorophenol	0.329	0.20	0.5	0	65.8	30-105	0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	107	0	100	0	107	20-144	0			

The following samples were analyzed in this batch:

1305472-01D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99697d** Instrument ID: **SUB** Method: **SW8151**

MBLK		Sample ID: MB-R99697-R99697d			Units: µg/Kg		Analysis Date: 6/3/2013 05:22 PM			
Client ID:		Run ID: SUB_130531H			SeqNo: 624569		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	ND	4.0								
2,4,5-TP (Silvex)	ND	3.0								
2,4-D	ND	40								
2,4-DB	ND	40								
Dalapon	ND	100								
Dicamba	ND	4.0								
Dichlorprop	ND	40								
Dinoseb	ND	20								
MCPA	ND	4,000								
MCPP	ND	4,000								
Pentachlorophenol	ND	4.0								
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	91.8	0	100	0	91.8	25-110	0			

LCS		Sample ID: LCS-R99697-R99697d			Units: µg/Kg		Analysis Date: 6/3/2013 05:47 PM			
Client ID:		Run ID: SUB_130531H			SeqNo: 624570		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	7.45	4.0	10	0	74.5	25-120	0			
2,4,5-TP (Silvex)	6.88	3.0	10	0	68.8	30-125	0			
2,4-D	56.8	40	100	0	56.8	15-120	0			
2,4-DB	715	40	100	0	715	20-125	0			S
Dalapon	135	100	250	0	54	10-105	0			
Dicamba	9.67	4.0	10	0	96.7	45-150	0			
Dichlorprop	74.8	40	100	0	74.8	20-130	0			
Dinoseb	33.7	20	50	0	67.4	25-125	0			
MCPA	5960	4,000	10000	0	59.6	10-120	0			
MCPP	5980	4,000	10000	0	59.8	10-130	0			
Pentachlorophenol	5.52	4.0	10	0	55.2	30-110	0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	96.4	0	100	0	96.4	25-110	0			

The following samples were analyzed in this batch:

1305472-02B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305472
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16805** Instrument ID: **SVMS3** Method: **SW8270C**

MBLK		Sample ID: mblk-16805-16805			Units: µg/L		Analysis Date: 5/28/2013 10:10 PM			
Client ID:		Run ID: SVMS3_130528A			SeqNo: 617306		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.10								
Acenaphthene	ND	0.10								
Acenaphthylene	ND	0.10								
Anthracene	ND	0.10								
Benzo(a)anthracene	ND	0.10								
Benzo(a)pyrene	ND	0.10								
Benzo(b)fluoranthene	ND	0.11								
Benzo(g,h,i)perylene	ND	0.10								
Benzo(k)fluoranthene	ND	0.16								
Carbazole	ND	10								
Chrysene	ND	0.10								
Dibenzo(a,h)anthracene	ND	0.10								
Dibenzofuran	ND	10								
Fluoranthene	ND	0.10								
Fluorene	ND	0.10								
Indeno(1,2,3-cd)pyrene	ND	0.10								
Naphthalene	ND	0.10								
Phenanthrene	ND	0.10								
Pyrene	ND	0.10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805 Instrument ID: SVMS3 Method: SW8270C

MBLK		Sample ID: mblk-16805-16805			Units: µg/L		Analysis Date: 5/28/2013 11:15 PM			
Client ID:		Run ID: SVMS2_130528A			SeqNo: 617374		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	10								
1,2,4-Trichlorobenzene	ND	10								
1,2-Dichlorobenzene	ND	10								
1,3-Dichlorobenzene	ND	10								
1,3-Dinitrobenzene	ND	10								
1,4-Dichlorobenzene	ND	10								
1-Naphthylamine	ND	10								
2,3,4,6-Tetrachlorophenol	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
2,4-Dichlorophenol	ND	10								
2,4-Dimethylphenol	ND	10								
2,4-Dinitrophenol	ND	10								
2,4-Dinitrotoluene	ND	10								
2,6-Dichlorophenol	ND	10								
2,6-Dinitrotoluene	ND	10								
2-Acetylaminofluorene	ND	10								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	10								
2-Methylphenol	ND	10								
2-Naphthylamine	ND	20								
2-Nitroaniline	ND	10								
2-Nitrophenol	ND	10								
2-Picoline	ND	20								
3&4-Methylphenol	ND	10								
3,3'-Dichlorobenzidine	ND	10								
3-Methylcholanthrene	ND	20								
3-Nitroaniline	ND	20								
4,6-Dinitro-2-methylphenol	ND	20								
4-Aminobiphenyl	ND	10								
4-Bromophenyl phenyl ether	ND	20								
4-Chloro-3-methylphenol	ND	20								
4-Chloroaniline	ND	10								
4-Chlorophenyl phenyl ether	ND	20								
4-Nitroaniline	ND	20								
4-Nitrophenol	ND	10								
4-Nitroquinoline 1-oxide	ND	10								
5-Nitro-o-toluidine	ND	10								
7,12-Dimethylbenz(a)anthracene	ND	10								
Acetophenone	ND	10								
Aniline	ND	10								
Azobenzene	ND	10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805	Instrument ID: SVMS3	Method: SW8270C						
Benzidine	ND	10						
Benzyl alcohol	ND	10						
Bis(2-chloroethoxy)methane	ND	10						
Bis(2-chloroethyl)ether	ND	10						
Bis(2-chloroisopropyl)ether	ND	10						
Bis(2-ethylhexyl)phthalate	ND	10						
Butyl benzyl phthalate	ND	10						
Diethyl phthalate	ND	10						
Dimethyl phthalate	ND	10						
Di-n-butyl phthalate	ND	10						
Di-n-octyl phthalate	ND	10						
Dinoseb	ND	20						
Diphenylamine	ND	10						
Ethyl methanesulfonate	ND	10						
Hexachlorobenzene	ND	10						
Hexachlorobutadiene	ND	10						
Hexachlorocyclopentadiene	ND	10						
Hexachloroethane	ND	10						
Isophorone	ND	10						
Isosafrole	ND	10						
Methapyrilene	ND	10						
Methyl methanesulfonate	ND	10						
Nitrobenzene	ND	10						
N-Nitrosodiethylamine	ND	10						
N-Nitrosodimethylamine	ND	10						
N-Nitroso-di-n-butylamine	ND	10						
N-Nitrosodi-n-propylamine	ND	10						
N-Nitrosomethylethylamine	ND	10						
N-Nitrosomorpholine	ND	10						
N-Nitrosopiperidine	ND	10						
N-Nitrosopyrrolidine	ND	10						
o-Toluidine	ND	10						
p-Dimethylaminoazobenzene	ND	10						
Pentachlorobenzene	ND	10						
Pentachloroethane	ND	10						
Pentachloronitrobenzene	ND	20						
Pentachlorophenol	ND	20						
Phenacetin	ND	20						
Phenol	ND	10						
Pyridine	ND	10						
Safrole	ND	10						
<i>Surr: 2,4,6-Tribromophenol</i>	73.57	0	100	0	73.6	35-120	0	
<i>Surr: 2-Fluorobiphenyl</i>	30.74	0	50	0	61.5	38-105	0	
<i>Surr: 2-Fluorophenol</i>	46.59	0	100	0	46.6	12-89	0	
<i>Surr: 4-Terphenyl-d14</i>	40.18	0	50	0	80.4	42-125	0	
<i>Surr: Nitrobenzene-d5</i>	34	0	50	0	68	28-120	0	
<i>Surr: Phenol-d5</i>	43.93	0	100	0	43.9	10-62	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805 Instrument ID: SVMS3 Method: SW8270C

LCS		Sample ID: Ics-16805-16805			Units: µg/L		Analysis Date: 5/28/2013 11:51 PM			
Client ID:		Run ID: SVMS2_130528A			SeqNo: 617375		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	33.02	10	50	0	66	49.8-102	0			
1,4-Dichlorobenzene	37.78	10	50	0	75.6	44-92.8	0			
2,4-Dinitrotoluene	48.45	10	50	0	96.9	61.3-108	0			
2-Chlorophenol	43.64	10	50	0	87.3	33.3-89.9	0			
4-Chloro-3-methylphenol	45.03	20	50	0	90.1	39.3-96.6	0			
4-Nitrophenol	38.92	10	50	0	77.8	17.3-80.3	0			
Acenaphthene	39.27	0.10	50	0	78.5	40.1-123	0			
Acenaphthylene	39.16	0.10	50	0	78.3	59.3-126	0			
Anthracene	41.25	0.10	50	0	82.5	62.1-110	0			
Benzo(a)anthracene	41.54	0.10	50	0	83.1	62.3-118	0			
Benzo(a)pyrene	45.53	0.10	50	0	91.1	69.6-111	0			
Benzo(b)fluoranthene	41.92	0.11	50	0	83.8	60.1-94.5	0			
Benzo(g,h,i)perylene	40.81	0.10	50	0	81.6	66.8-138	0			
Benzo(k)fluoranthene	45.76	0.16	50	0	91.5	68.8-136	0			
Carbazole	54.36	10	50	0	109	70.8-115	0			
Chrysene	41.61	0.10	50	0	83.2	63.1-116	0			
Dibenzo(a,h)anthracene	44.21	0.10	50	0	88.4	47.1-168	0			
Fluoranthene	44	0.10	50	0	88	58.1-117	0			
Fluorene	40.68	0.10	50	0	81.4	59.5-120	0			
Indeno(1,2,3-cd)pyrene	45.14	0.10	50	0	90.3	56.3-141	0			
Naphthalene	34.42	0.10	50	0	68.8	46.6-104	0			
N-Nitrosodi-n-propylamine	58.06	10	50	0	116	54.8-121	0			
Pentachlorophenol	51.41	20	50	0	103	34.1-130	0			
Phenanthrene	42.02	0.10	50	0	84	63-118	0			
Phenol	28.08	10	50	0	56.2	17.5-68	0			
Pyrene	41.51	0.10	50	0	83	42-125	0			
Surr: 2,4,6-Tribromophenol	71.21	0	100	0	71.2	35-120	0			
Surr: 2-Fluorobiphenyl	33.67	0	50	0	67.3	38-105	0			
Surr: 2-Fluorophenol	73.28	0	100	0	73.3	12-89	0			
Surr: 4-Terphenyl-d14	39.17	0	50	0	78.3	42-125	0			
Surr: Nitrobenzene-d5	48.72	0	50	0	97.4	28-120	0			
Surr: Phenol-d5	51.65	0	100	0	51.6	10-62	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805 Instrument ID: SVMS3 Method: SW8270C

MS		Sample ID: 1305506-01c ms				Units: µg/L		Analysis Date: 5/29/2013 12:27 PM		
Client ID:		Run ID: SVMS2_130528A				SeqNo: 617385		Prep Date: 5/23/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	33.86	10	50	0	67.7		0			
2,4-Dinitrotoluene	48.79	10	50	0	97.6		0			
2-Chlorophenol	54.91	10	50	0	110		0			
4-Chloro-3-methylphenol	52.94	20	50	0	106		0			
4-Nitrophenol	23.45	10	50	0	46.9		0			
Acenaphthene	41.59	0.10	50	0	83.2		0			
Acenaphthylene	41.52	0.10	50	0	83		0			
Anthracene	41.1	0.10	50	0	82.2		0			
Benzo(a)anthracene	41.74	0.10	50	0	83.5		0			
Benzo(a)pyrene	45.79	0.10	50	0	91.6		0			
Benzo(b)fluoranthene	41.42	0.11	50	0	82.8		0			
Benzo(g,h,i)perylene	41.68	0.10	50	0	83.4		0			
Benzo(k)fluoranthene	45.93	0.16	50	0	91.9		0			
Carbazole	52.43	10	50	0	105		0			
Chrysene	41.53	0.10	50	0	83.1		0			
Dibenzo(a,h)anthracene	43.96	0.10	50	0	87.9		0			
Dibenzofuran	46.46	10	50	0	92.9		0			
Fluoranthene	42.91	0.10	50	0	85.8		0			
Fluorene	41.98	0.10	50	0	84		0			
Indeno(1,2,3-cd)pyrene	44.13	0.10	50	0	88.3		0			
Naphthalene	40.98	0.10	50	0	82		0			
N-Nitrosodi-n-propylamine	55.58	10	50	0	111		0			
Pentachlorophenol	52.03	20	50	0	104		0			
Phenol	28.99	10	50	0	58		0			
Pyrene	40.87	0.10	50	0	81.7		0			
<i>Surr: 2,4,6-Tribromophenol</i>	73.67	0	100	0	73.7	35-120	0			
<i>Surr: 2-Fluorobiphenyl</i>	37.14	0	50	0	74.3	38-105	0			
<i>Surr: 2-Fluorophenol</i>	74.17	0	100	0	74.2	12-89	0			
<i>Surr: 4-Terphenyl-d14</i>	39.2	0	50	0	78.4	42-125	0			
<i>Surr: Nitrobenzene-d5</i>	58.26	0	50	0	117	28-120	0			
<i>Surr: Phenol-d5</i>	47.67	0	100	0	47.7	10-62	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805 Instrument ID: SVMS3 Method: SW8270C

MSD		Sample ID: 1305506-01c msd				Units: µg/L		Analysis Date: 5/29/2013 01:03 AM		
Client ID:		Run ID: SVMS2_130528A				SeqNo: 617376		Prep Date: 5/23/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	38.57	10	50	0	77.1		41.34	6.93		
1,4-Dichlorobenzene	46.29	10	50	0	92.6		33.86	31		
2,4-Dinitrotoluene	47.19	10	50	0	94.4		48.79	3.33		
2-Chlorophenol	66.34	10	50	0	133		54.91	18.9		
4-Chloro-3-methylphenol	50.78	20	50	0	102		52.94	4.17		
4-Nitrophenol	22.65	10	50	0	45.3		23.45	3.47		
Acenaphthene	40.65	0.10	50	0	81.3		41.59	2.29		
Acenaphthylene	40.01	0.10	50	0	80		41.52	3.7		
Anthracene	39.73	0.10	50	0	79.5		41.1	3.39		
Benzo(a)anthracene	51.63	0.10	50	0	103		41.74	21.2		
Benzo(a)pyrene	53.55	0.10	50	0	107		45.79	15.6		
Benzo(b)fluoranthene	43.41	0.11	50	0	86.8		41.42	4.69		
Benzo(g,h,i)perylene	41.13	0.10	50	0	82.3		41.68	1.33		
Benzo(k)fluoranthene	50.78	0.16	50	0	102		45.93	10		
Carbazole	46.99	10	50	0	94		52.43	10.9		
Chrysene	52.36	0.10	50	0	105		41.53	23.1		
Dibenzo(a,h)anthracene	47.18	0.10	50	0	94.4		43.96	7.07		
Dibenzofuran	44.84	10	50	0	89.7		46.46	3.55		
Fluoranthene	40.28	0.10	50	0	80.6		42.91	6.32		
Fluorene	40.66	0.10	50	0	81.3		41.98	3.19		
Indeno(1,2,3-cd)pyrene	43.13	0.10	50	0	86.3		44.13	2.29		
Naphthalene	38.31	0.10	50	0	76.6		40.98	6.73		
N-Nitrosodi-n-propylamine	50.39	10	50	0	101		55.58	9.8		
Pentachlorophenol	49.51	20	50	0	99		52.03	4.96		
Phenol	27.35	10	50	0	54.7		28.99	5.82		
Pyrene	35.64	0.10	50	0	71.3		40.87	13.7		
Surr: 2,4,6-Tribromophenol	68.78	0	100	0	68.8	35-120	73.67	6.87		
Surr: 2-Fluorobiphenyl	35.94	0	50	0	71.9	38-105	37.14	3.28		
Surr: 2-Fluorophenol	63.44	0	100	0	63.4	12-89	74.17	15.6		
Surr: 4-Terphenyl-d14	36.65	0	50	0	73.3	42-125	39.2	6.72		
Surr: Nitrobenzene-d5	50.55	0	50	0	101	28-120	58.26	14.2		
Surr: Phenol-d5	55.24	0	100	0	55.2	10-62	47.67	14.7		

The following samples were analyzed in this batch:

1305472-01a

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID: SVMS2 Method: SW8270C

MBLK		Sample ID: MBLK-16817-16817			Units: µg/Kg		Analysis Date: 5/24/2013 07:10 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615805		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	330								
1,2,4-Trichlorobenzene	ND	330								
1,2-Dichlorobenzene	ND	330								
1,3-Dichlorobenzene	ND	330								
1,3-Dinitrobenzene	ND	330								
1,4-Dichlorobenzene	ND	330								
1-Methylnaphthalene	ND	330								
1-Naphthylamine	ND	330								
2,3,4,6-Tetrachlorophenol	ND	330								
2,4,5-Trichlorophenol	ND	330								
2,4,6-Trichlorophenol	ND	330								
2,4-Dichlorophenol	ND	330								
2,4-Dimethylphenol	ND	330								
2,4-Dinitrophenol	ND	1,600								
2,4-Dinitrotoluene	ND	330								
2,6-Dichlorophenol	ND	330								
2,6-Dinitrotoluene	ND	330								
2-Acetylaminofluorene	ND	330								
2-Chloronaphthalene	ND	330								
2-Chlorophenol	ND	330								
2-Methylnaphthalene	ND	330								
2-Methylphenol	ND	330								
2-Naphthylamine	ND	330								
2-Nitroaniline	ND	1,600								
2-Nitrophenol	ND	330								
2-Picoline	ND	330								
3&4-Methylphenol	ND	330								
3,3'-Dichlorobenzidine	ND	660								
3-Methylcholanthrene	ND	330								
3-Nitroaniline	ND	1,600								
4,6-Dinitro-2-methylphenol	ND	1,600								
4-Aminobiphenyl	ND	660								
4-Bromophenyl phenyl ether	ND	330								
4-Chloro-3-methylphenol	ND	660								
4-Chloroaniline	ND	660								
4-Chlorophenyl phenyl ether	ND	330								
4-Nitroaniline	ND	660								
4-Nitrophenol	ND	1,600								
4-Nitroquinoline 1-oxide	ND	330								
5-Nitro-o-toluidine	ND	330								
7,12-Dimethylbenz(a)anthracene	ND	330								
Acenaphthene	ND	330								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305472
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817	Instrument ID: SVMS2	Method: SW8270C
Acenaphthylene	ND	330
Acetophenone	ND	330
Aniline	ND	330
Anthracene	ND	330
Azobenzene	ND	330
Benzidine	ND	330
Benzo(a)anthracene	ND	330
Benzo(a)pyrene	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(g,h,i)perylene	ND	330
Benzo(k)fluoranthene	ND	330
Benzyl alcohol	ND	660
Bis(2-chloroethoxy)methane	ND	330
Bis(2-chloroethyl)ether	ND	330
Bis(2-chloroisopropyl)ether	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Butyl benzyl phthalate	ND	330
Carbazole	ND	330
Chrysene	ND	330
Dibenzo(a,h)anthracene	ND	330
Dibenzofuran	ND	330
Diethyl phthalate	ND	330
Dimethyl phthalate	ND	330
Di-n-butyl phthalate	ND	330
Di-n-octyl phthalate	ND	330
Dinoseb	ND	330
Diphenylamine	ND	330
Ethyl methanesulfonate	ND	330
Fluoranthene	ND	330
Fluorene	ND	330
Hexachlorobenzene	ND	330
Hexachlorobutadiene	ND	330
Hexachlorocyclopentadiene	ND	330
Hexachloroethane	ND	330
Indeno(1,2,3-cd)pyrene	ND	150
Isophorone	ND	330
Isosafrole	ND	330
Methapyrilene	ND	330
Methyl methanesulfonate	ND	330
Naphthalene	ND	330
Nitrobenzene	ND	330
N-Nitrosodiethylamine	ND	330
N-Nitrosodimethylamine	ND	330
N-Nitroso-di-n-butylamine	ND	330
N-Nitrosodi-n-propylamine	ND	330
N-Nitrosomethylethylamine	ND	330
N-Nitrosomorpholine	ND	330
N-Nitrosopiperidine	ND	330

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305472
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817	Instrument ID: SVMS2	Method: SW8270C					
N-Nitrosopyrrolidine	ND	330					
o-Toluidine	ND	330					
p-Dimethylaminoazobenzene	ND	330					
Pentachlorobenzene	ND	330					
Pentachloroethane	ND	330					
Pentachloronitrobenzene	ND	660					
Pentachlorophenol	ND	1,600					
Phenacetin	ND	660					
Phenanthrene	ND	330					
Phenol	ND	330					
Pyrene	ND	330					
Pyridine	ND	330					
Safrole	ND	330					
<i>Surr: 2,4,6-Tribromophenol</i>	2682	0	3330	0	80.6	18-115	0
<i>Surr: 2-Fluorobiphenyl</i>	1329	0	1670	0	79.6	30-116	0
<i>Surr: 2-Fluorophenol</i>	1905	0	3330	0	57.2	24-105	0
<i>Surr: 4-Terphenyl-d14</i>	1212	0	1670	0	72.6	40-127	0
<i>Surr: Nitrobenzene-d5</i>	1542	0	1670	0	92.3	32-106	0
<i>Surr: Phenol-d5</i>	2333	0	3330	0	70.1	39-123	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID: SVMS2 Method: SW8270C

LCS		Sample ID: LCS-16817-16817			Units: µg/Kg		Analysis Date: 5/24/2013 07:45 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615806		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1214	330	1670	0	72.7	48.1-106	0			
1,4-Dichlorobenzene	1167	330	1670	0	69.9	55.5-89.4	0			
2,4-Dinitrotoluene	1486	330	1670	0	89	58.8-123	0			
2-Chlorophenol	1140	330	1670	0	68.3	34.7-116	0			
4-Chloro-3-methylphenol	1449	660	1670	0	86.8	32.1-109	0			
4-Nitrophenol	ND	1,600	1670	0	74.9	36.2-146	0			
Acenaphthene	1263	330	1670	0	75.6	67.8-104	0			
Acenaphthylene	1222	330	1670	0	73.2	65.6-103	0			
Anthracene	1317	330	1670	0	78.8	71.1-107	0			
Benzo(a)anthracene	1365	330	1670	0	81.7	60.4-118	0			
Benzo(a)pyrene	1536	330	1670	0	92	73.7-110	0			
Benzo(b)fluoranthene	1475	330	1670	0	88.3	59.9-94.8	0			
Benzo(g,h,i)perylene	1355	330	1670	0	81.2	40-129	0			
Benzo(k)fluoranthene	1412	330	1670	0	84.5	75.7-130	0			
Carbazole	1699	330	1670	0	102	69.6-107	0			
Chrysene	1429	330	1670	0	85.6	62.3-115	0			
Dibenzo(a,h)anthracene	1282	330	1670	0	76.8	59.2-121	0			
Fluoranthene	1436	330	1670	0	86	63-120	0			
Fluorene	1265	330	1670	0	75.7	69-106	0			
Indeno(1,2,3-cd)pyrene	1284	150	1670	0	76.9	59-110	0			
Naphthalene	1205	330	1670	0	72.2	49.1-103	0			
N-Nitrosodi-n-propylamine	1352	330	1670	0	80.9	25.3-127	0			
Pentachlorophenol	1621	1,600	1670	0	97.1	22.1-105	0			
Phenanthrene	1342	330	1670	0	80.3	70-112	0			
Phenol	1147	330	1670	0	68.7	36.9-97.8	0			
Pyrene	1344	330	1670	0	80.5	55-117	0			
Surr: 2,4,6-Tribromophenol	2259	0	3330	0	67.8	18-115	0			
Surr: 2-Fluorobiphenyl	1156	0	1670	0	69.2	30-116	0			
Surr: 2-Fluorophenol	1944	0	3330	0	58.4	24-105	0			
Surr: 4-Terphenyl-d14	1130	0	1670	0	67.7	40-127	0			
Surr: Nitrobenzene-d5	1177	0	1670	0	70.5	32-106	0			
Surr: Phenol-d5	2183	0	3330	0	65.6	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID: SVMS2 Method: SW8270C

MS		Sample ID: ms 1305471-02b			Units: µg/Kg		Analysis Date: 5/24/2013 08:19 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615807		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1209	330	1669	0	72.4	50.6-92	0			
1,4-Dichlorobenzene	1132	330	1669	0	67.8	40.1-84.3	0			
2,4-Dinitrotoluene	1406	330	1669	0	84.2	50.3-127	0			
2-Chlorophenol	1107	330	1669	0	66.3	33.3-109	0			
4-Chloro-3-methylphenol	1449	660	1669	0	86.8	35.8-116	0			
4-Nitrophenol	ND	1,600	1669	0	92.5	38.7-135	0			
Acenaphthene	1237	330	1669	0	74.1	54.1-109	0			
Acenaphthylene	1214	330	1669	0	72.7	55.3-118	0			
Anthracene	1280	330	1669	0	76.7	51-106	0			
Benzo(a)anthracene	1287	330	1669	0	77.1	31.6-128	0			
Benzo(a)pyrene	1465	330	1669	0	87.8	66.1-109	0			
Benzo(b)fluoranthene	1431	330	1669	0	85.7	56.8-87.8	0			
Benzo(g,h,i)perylene	1411	330	1669	0	84.5	37.7-113	0			
Benzo(k)fluoranthene	1412	330	1669	0	84.6	57-119	0			
Carbazole	1749	330	1669	0	105	28.5-114	0			
Chrysene	1329	330	1669	0	79.6	46.3-104	0			
Dibenzo(a,h)anthracene	1271	330	1669	0	76.1	48.8-123	0			
Fluoranthene	1354	330	1669	0	81.1	52-120	0			
Fluorene	1261	330	1669	0	75.5	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1252	150	1669	0	75	56.1-118	0			
Naphthalene	1199	330	1669	0	71.8	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1359	330	1669	0	81.4	46.5-116	0			
Pentachlorophenol	1685	1,600	1669	0	101	28.9-156	0			
Phenanthrene	1284	330	1669	0	76.9	52-105	0			
Phenol	1109	330	1669	0	66.4	25.9-90.3	0			
Pyrene	1295	330	1669	0	77.6	51-111	0			
Surr: 2,4,6-Tribromophenol	2319	0	3329	0	69.7	18-115	0			
Surr: 2-Fluorobiphenyl	1191	0	1669	0	71.3	30-116	0			
Surr: 2-Fluorophenol	2114	0	3329	0	63.5	24-105	0			
Surr: 4-Terphenyl-d14	1103	0	1669	0	66.1	40-127	0			
Surr: Nitrobenzene-d5	1232	0	1669	0	73.8	32-106	0			
Surr: Phenol-d5	2272	0	3329	0	68.2	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID: SVMS2 Method: SW8270C

MSD		Sample ID: msd 1305471-02b			Units: µg/Kg		Analysis Date: 5/24/2013 08:54 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615808		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1218	330	1670	0	72.9	50.6-92	0			
1,4-Dichlorobenzene	1158	330	1670	0	69.4	40.1-84.3	0			
2,4-Dinitrotoluene	1406	330	1670	0	84.2	50.3-127	0			
2-Chlorophenol	1131	330	1670	0	67.7	33.3-109	0			
4-Chloro-3-methylphenol	1468	660	1670	0	87.9	35.8-116	0			
4-Nitrophenol	ND	1,600	1670	0	74.5	38.7-135	0			
Acenaphthene	1248	330	1670	0	74.7	54.1-109	0			
Acenaphthylene	1227	330	1670	0	73.5	55.3-118	0			
Anthracene	1272	330	1670	0	76.2	51-106	0			
Benzo(a)anthracene	1206	330	1670	0	72.2	31.6-128	0			
Benzo(a)pyrene	1456	330	1670	0	87.2	66.1-109	0			
Benzo(b)fluoranthene	1309	330	1670	0	78.4	56.8-87.8	0			
Benzo(g,h,i)perylene	1466	330	1670	0	87.8	37.7-113	0			
Benzo(k)fluoranthene	1385	330	1670	0	83	57-119	0			
Carbazole	1770	330	1670	0	106	28.5-114	0			
Chrysene	1232	330	1670	0	73.8	46.3-104	0			
Dibenzo(a,h)anthracene	1342	330	1670	0	80.4	48.8-123	0			
Fluoranthene	1328	330	1670	0	79.5	52-120	0			
Fluorene	1249	330	1670	0	74.8	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1348	150	1670	0	80.7	56.1-118	0			
Naphthalene	1212	330	1670	0	72.6	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1377	330	1670	0	82.5	46.5-116	0			
Pentachlorophenol	1607	1,600	1670	0	96.2	28.9-156	0			
Phenanthrene	1287	330	1670	0	77.1	52-105	0			
Phenol	1114	330	1670	0	66.7	25.9-90.3	0			
Pyrene	1244	330	1670	0	74.5	51-111	0			
Surr: 2,4,6-Tribromophenol	2249	0	3330	0	67.5	18-115	0			
Surr: 2-Fluorobiphenyl	1197	0	1670	0	71.7	30-116	0			
Surr: 2-Fluorophenol	2154	0	3330	0	64.7	24-105	0			
Surr: 4-Terphenyl-d14	1077	0	1670	0	64.5	40-127	0			
Surr: Nitrobenzene-d5	1250	0	1670	0	74.9	32-106	0			
Surr: Phenol-d5	2298	0	3330	0	69	39-123	0			

The following samples were analyzed in this batch: 1305472-02C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99261** Instrument ID: **VMS1** Method: **SW8260**

MBLK		Sample ID: MBLK-R99261			Units: µg/L		Analysis Date: 5/23/2013 09:51 AM			
Client ID:		Run ID: VMS1_130523A			SeqNo: 613453		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305472
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99261	Instrument ID: VMS1	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	2.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	50.42	0	50	0	101	61-131	0
<i>Surr: Dibromofluoromethane</i>	48.33	0	50	0	96.7	87-126	0
<i>Surr: Toluene-d8</i>	49.38	0	50	0	98.8	84-111	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99261** Instrument ID: **VMS1** Method: **SW8260**

LCS		Sample ID: LCS-R99261			Units: µg/L		Analysis Date: 5/23/2013 10:21 AM			
Client ID:		Run ID: VMS1_130523A			SeqNo: 613454		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	47.29	5.0	50	0	94.6	48.4-140	0			
1,1-Dichloroethene	47.52	5.0	50	0	95	45.5-150	0			
1,2-Dichloroethane	48.06	5.0	50	0	96.1	46.5-141	0			
1,3-Dichlorobenzene	47.59	5.0	50	0	95.2	42.5-133	0			
1,4-Dichlorobenzene	46.39	5.0	50	0	92.8	38.9-136	0			
Benzene	47.28	5.0	50	0	94.6	50.7-134	0			
Carbon tetrachloride	47.32	5.0	50	0	94.6	45.5-143	0			
Chlorobenzene	47.43	5.0	50	0	94.9	45-133	0			
Chloroform	47.2	5.0	50	0	94.4	52.4-136	0			
cis-1,2-Dichloroethene	45.72	5.0	50	0	91.4	49.7-138	0			
Ethylbenzene	47.73	5.0	50	0	95.5	37.8-145	0			
m,p-Xylene	96.94	5.0	100	0	96.9	25.1-163	0			
Styrene	50.24	5.0	50	0	100	26.3-172	0			
Tetrachloroethene	48.23	5.0	50	0	96.5	37.3-139	0			
Toluene	46.35	5.0	50	0	92.7	44-135	0			
Trichloroethene	47.73	5.0	50	0	95.5	46.9-134	0			
Surr: 4-Bromofluorobenzene	50.47	0	50	0	101	61-131	0			
Surr: Dibromofluoromethane	50.18	0	50	0	100	87-126	0			
Surr: Toluene-d8	50.21	0	50	0	100	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99261** Instrument ID: **VMS1** Method: **SW8260**

MS		Sample ID: 1305472-01E MS			Units: µg/L		Analysis Date: 5/23/2013 01:21 PM			
Client ID: SW-1-052013		Run ID: VMS1_130523A			SeqNo: 613590		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	40.65	5.0	50	0	81.3	47.4-141	0			
1,1-Dichloroethene	40.37	5.0	50	0	80.7	56.3-140	0			
1,2-Dichloroethane	40.58	5.0	50	0	81.2	50.1-139	0			
1,3-Dichlorobenzene	39.07	5.0	50	0	78.1	53-127	0			
1,4-Dichlorobenzene	38.7	5.0	50	0	77.4	53.4-129	0			
Benzene	40.89	5.0	50	0	81.8	52.8-136	0			
Carbon tetrachloride	39.95	5.0	50	0	79.9	48.1-141	0			
Chlorobenzene	39.45	5.0	50	0	78.9	52.4-132	0			
Chloroform	40.36	5.0	50	0	80.7	52.9-136	0			
cis-1,2-Dichloroethene	40.42	5.0	50	0	80.8	63.5-128	0			
Ethylbenzene	39.49	5.0	50	0	79	46.5-146	0			
m,p-Xylene	81.98	5.0	100	0	82	38.2-167	0			
Styrene	43.18	5.0	50	0	86.4	20.9-184	0			
Tetrachloroethene	38.78	5.0	50	0	77.6	55.2-134	0			
Toluene	40.53	5.0	50	0	81.1	45.1-138	0			
Trichloroethene	40.45	5.0	50	0	80.9	52.8-133	0			
Surr: 4-Bromofluorobenzene	50.03	0	50	0	100	61-131	0			
Surr: Dibromofluoromethane	50.19	0	50	0	100	87-126	0			
Surr: Toluene-d8	51.42	0	50	0	103	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99261** Instrument ID: **VMS1** Method: **SW8260**

MSD		Sample ID: 1305472-01E MSD			Units: µg/L		Analysis Date: 5/23/2013 12:21 PM			
Client ID: SW-1-052013		Run ID: VMS1_130523A			SeqNo: 613458		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	38.78	5.0	50	0	77.6	47.4-141	40.65	4.71	20	
1,1-Dichloroethene	38.43	5.0	50	0	76.9	56.3-140	40.37	4.92	20	
1,2-Dichloroethane	38.5	5.0	50	0	77	50.1-139	40.58	5.26	20	
1,3-Dichlorobenzene	37.28	5.0	50	0	74.6	53-127	39.07	4.69	20	
1,4-Dichlorobenzene	36.74	5.0	50	0	73.5	53.4-129	38.7	5.2	20	
Benzene	37.63	5.0	50	0	75.3	52.8-136	40.89	8.3	20	
Carbon tetrachloride	38.89	5.0	50	0	77.8	48.1-141	39.95	2.69	20	
Chlorobenzene	36.77	5.0	50	0	73.5	52.4-132	39.45	7.03	20	
Chloroform	37.91	5.0	50	0	75.8	52.9-136	40.36	6.26	20	
cis-1,2-Dichloroethene	37.9	5.0	50	0	75.8	63.5-128	40.42	6.44	20	
Ethylbenzene	36.9	5.0	50	0	73.8	46.5-146	39.49	6.78	20	
m,p-Xylene	74.46	5.0	100	0	74.5	38.2-167	81.98	9.61	20	
Styrene	38.66	5.0	50	0	77.3	20.9-184	43.18	11	20	
Tetrachloroethene	36.95	5.0	50	0	73.9	55.2-134	38.78	4.83	20	
Toluene	36.96	5.0	50	0	73.9	45.1-138	40.53	9.21	20	
Trichloroethene	37.85	5.0	50	0	75.7	52.8-133	40.45	6.64	20	
<i>Surr: 4-Bromofluorobenzene</i>	51.69	0	50	0	103	61-131	50.03	3.26		
<i>Surr: Dibromofluoromethane</i>	50.59	0	50	0	101	87-126	50.19	0.794		
<i>Surr: Toluene-d8</i>	49.57	0	50	0	99.1	84-111	51.42	3.66		

The following samples were analyzed in this batch:

1305472-01E

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99267** Instrument ID: **VMS2** Method: **SW8260**

MBLK		Sample ID: MBLK-R99267			Units: µg/Kg		Analysis Date: 5/23/2013 10:03 AM			
Client ID:		Run ID: VMS2_130523A			SeqNo: 613596		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305472
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99267	Instrument ID: VMS2	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	5.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	49.62	0	50	0	99.2	62.7-159	0
<i>Surr: Dibromofluoromethane</i>	50.43	0	50	0	101	88.2-133	0
<i>Surr: Toluene-d8</i>	49.42	0	50	0	98.8	81.5-110	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99267** Instrument ID: **VMS2** Method: **SW8260**

LCS		Sample ID: LCS-R99267			Units: µg/Kg		Analysis Date: 5/23/2013 11:06 AM			
Client ID:		Run ID: VMS2_130523A			SeqNo: 613598		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	43.55	5.0	50	0	87.1	70-132	0			
1,1-Dichloroethene	42.78	5.0	50	0	85.6	61.2-140	0			
1,2-Dichloroethane	47.82	5.0	50	0	95.6	67.3-139	0			
1,3-Dichlorobenzene	43.68	5.0	50	0	87.4	67.5-126	0			
1,4-Dichlorobenzene	41.75	5.0	50	0	83.5	69.5-124	0			
Benzene	42.09	5.0	50	0	84.2	67.2-135	0			
Carbon tetrachloride	42.88	5.0	50	0	85.8	68.6-138	0			
Chlorobenzene	41.38	5.0	50	0	82.8	66.4-133	0			
Chloroform	43.22	5.0	50	0	86.4	68.2-127	0			
cis-1,2-Dichloroethene	42.98	5.0	50	0	86	62.1-135	0			
Ethylbenzene	41	5.0	50	0	82	67.8-132	0			
m,p-Xylene	83.42	5.0	100	0	83.4	66.4-132	0			
Styrene	41.08	5.0	50	0	82.2	67.6-134	0			
Tetrachloroethene	41.91	5.0	50	0	83.8	70.3-144	0			
Toluene	43.13	5.0	50	0	86.3	67.8-130	0			
Trichloroethene	43.34	5.0	50	0	86.7	68.5-136	0			
Surr: 4-Bromofluorobenzene	50	0	50	0	100	62.7-159	0			
Surr: Dibromofluoromethane	52.3	0	50	0	105	88.2-133	0			
Surr: Toluene-d8	50.52	0	50	0	101	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99267** Instrument ID: **VMS2** Method: **SW8260**

MS		Sample ID: 1305378-02A MS			Units: µg/Kg		Analysis Date: 5/23/2013 12:10 PM			
Client ID:		Run ID: VMS2_130523A			SeqNo: 613600		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	60.26	5.0	50	0	121	66.9-140	0			
1,1-Dichloroethene	60.29	5.0	50	0	121	65.9-143	0			
1,2-Dichloroethane	61.19	5.0	50	0	122	73-135	0			
1,3-Dichlorobenzene	57.61	5.0	50	0	115	61.2-125	0			
1,4-Dichlorobenzene	56.67	5.0	50	0	113	62.3-123	0			
Benzene	59.97	5.0	50	0	120	35.8-162	0			
Carbon tetrachloride	60.88	5.0	50	0	122	71.4-130	0			
Chlorobenzene	57.5	5.0	50	0	115	65.6-137	0			
Chloroform	60.64	5.0	50	0	121	69.6-128	0			
cis-1,2-Dichloroethene	60.64	5.0	50	0	121	68.8-130	0			
Ethylbenzene	56.76	5.0	50	0	114	68.6-124	0			
m,p-Xylene	114.5	5.0	100	0	115	64.5-125	0			
Styrene	57.94	5.0	50	0	116	65.9-125	0			
Tetrachloroethene	58.55	5.0	50	0	117	71.6-135	0			
Toluene	58.51	5.0	50	0	117	67.7-135	0			
Trichloroethene	59.93	5.0	50	0	120	70.9-139	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.86	0	50	0	97.7	62.7-159	0			
<i>Surr: Dibromofluoromethane</i>	50.28	0	50	0	101	88.2-133	0			
<i>Surr: Toluene-d8</i>	50.93	0	50	0	102	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305472
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99267** Instrument ID: **VMS2** Method: **SW8260**

MSD		Sample ID: 1305378-02A MSD			Units: µg/Kg		Analysis Date: 5/23/2013 01:13 PM			
Client ID:		Run ID: VMS2_130523A			SeqNo: 613602		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	63.06	5.0	50	0	126	66.9-140	60.26	4.54	20	
1,1-Dichloroethene	61.23	5.0	50	0	122	65.9-143	60.29	1.55	20	
1,2-Dichloroethane	63.61	5.0	50	0	127	73-135	61.19	3.88	20	
1,3-Dichlorobenzene	61.44	5.0	50	0	123	61.2-125	57.61	6.43	21	
1,4-Dichlorobenzene	58.94	5.0	50	0	118	62.3-123	56.67	3.93	22.5	
Benzene	61.17	5.0	50	0	122	35.8-162	59.97	1.98	23.6	
Carbon tetrachloride	64.67	5.0	50	0	129	71.4-130	60.88	6.04	22.9	
Chlorobenzene	59.51	5.0	50	0	119	65.6-137	57.5	3.44	20	
Chloroform	60.9	5.0	50	0	122	69.6-128	60.64	0.428	23.1	
cis-1,2-Dichloroethene	60.15	5.0	50	0	120	68.8-130	60.64	0.811	23.7	
Ethylbenzene	60.21	5.0	50	0	120	68.6-124	56.76	5.9	24.9	
m,p-Xylene	121.2	5.0	100	0	121	64.5-125	114.5	5.62	25.1	
Styrene	60.28	5.0	50	0	121	65.9-125	57.94	3.96	22.8	
Tetrachloroethene	62	5.0	50	0	124	71.6-135	58.55	5.72	24.7	
Toluene	61.09	5.0	50	0	122	67.7-135	58.51	4.31	20	
Trichloroethene	62.44	5.0	50	0	125	70.9-139	59.93	4.1	20	
<i>Surr: 4-Bromofluorobenzene</i>	49.7	0	50	0	99.4	62.7-159	48.86	1.7		
<i>Surr: Dibromofluoromethane</i>	49.45	0	50	0	98.9	88.2-133	50.28	1.66		
<i>Surr: Toluene-d8</i>	49.78	0	50	0	99.6	81.5-110	50.93	2.28		

The following samples were analyzed in this batch:

1305472-02A

ALS Environmental

Date: 12-Jun-13

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305472

Analytical Comments

Method	Type:	SampID	SeqNo	Analysis	Comments
Batch <u>R99697b</u>					
	Analysis	1305472-02D	624565	Organochlorine Pesticides	Sample was run at a 10x dilution.
Batch <u>R99697d</u>					
	Analysis	1305472-02B	624571	Herbicides	Surrogate or spike compound out of range; Sample was run at a 5x dilution.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
WorkOrder: 1305472

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
%	
% of sample	
µg/Kg	
µg/Kg-dry	
µg/L	
mg/Kg	
mg/Kg-dry	
mg/L	

Sample Receipt Checklist

Client Name: AECOM-CINCINNATI

Date/Time Received: 21-May-13 00:00

Work Order: 1305472

Received by: CEG

Checklist completed by: Chris Gibson 22-May-13
eSignature Date

Reviewed by: Chris Gibson 07-Jun-13
eSignature Date

Matrices: Soil/Water

Carrier name: Client

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 4.7

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

[Empty text box for comments]

CorrectiveAction:

[Empty text box for corrective action]



ALS Laboratory Group
 10450 Standliff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5656
 Fax. +1 281 530 5887

Chain of Custody Form

ALS Laboratory Group
 3352 128th Ave.
 Holland, MI 49424-9263
 Tel: +1 616 399 6070
 Fax: +1 616 399 6185

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47°C

1305072

Customer Information				Project Information				ALS Work Order #:											
ALS Project Manager:				ALS Project Manager:				Parameter/Method Request for Analysis											
Purchase Order	Project Name	Whitfoot- Green Springs, OH- SWP	Parameter/Method Request for Analysis																
Work Order	Project Number	60298534	A	B	C	D	E	F	G	H	I	J	Hold						
Company Name	Bill To Company	AECOM	VOCs - 8260																
Send Report To	Invoice Attn	Ron Roelker	Metals - 6010																
Address	Address	4219 Malsbury Road	VOCs - 8270																
City/State/Zip	City/State/Zip	Cincinnati, OH 45242	PCBs - 9082																
Phone	Phone	(513) 878-6844	Pesticides - 8081																
Fax	Fax	(513) 878-6848	Herbicides - 8151																
e-Mail Address	e-Mail Address	ron.roelker@aecom.com	Hardness - SM 2340																
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	SW-1-052013	5-20-13	1400	W	-	1													
2	01	↓	↓	↓	HCL	2		X	X	X	X								
3	02	↓	↓	↓	HNO3	1													
4	03	↓	↓	↓															
5																			
6																			
7																			
8																			
9																			
10																			

Delivery Method:
 Std US Mail Client
 UPS ALS Courier
 City Dash FedEx
 US Mail Drop Box
 Other:

Cooling Method: Ice Pack
 Method: None
 Custody Package
 Seals On: Samples None
 Temp in Celsius: 4.2

Sampler(s) Please Print & Sign

Required Turnaround Time: (Check Box)
 Std 10 WK Days 5 WK Days 2 WK Days 24 Hour

Results Due Date:

Received by: *[Signature]* Date: 5-20-13
 Checked by (Laboratory): *[Signature]* Date: 5/21/13 20:00

QC Package: (Check One Box Below)
 Level I Std OC TRRP Checklist
 Level II Std OC/Raw Data TRRP Level IV
 Level IV SW846/CLP
 Other / EDD

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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ALS Laboratory Group

10450 Stancilff Rd., Suite 210
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Chain of Custody Form

ALS Laboratory Group

3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

Page 2 of 2

4.7°C

1305472

Customer Information				Project Information				ALS Work Order #:											
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	Parameter/Method Request for Analysis															
Work Order		Project Number	60299534	A	VOC - 5035/8260														
Company Name	AECOM	Bill To Company	AECOM	B	Metals - 6010														
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	C	SYOCs - 8270														
Address	4219 Malsbury Road	Address	4219 Malsbury Road	D	PCBs - 8082														
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	E	Pesticides - 8091														
Phone	(513) 878-8653	Phone	(513) 878-8844	F	Herbicides - 8151														
Fax	(513) 878-8648	Fax	(513) 878-8848	G	TOC - Walkley Blank														
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	H															
No.	1	Sample Description	5-20-13 1615 Sed.	I															
	2		↓	J															

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date:											
Relinquished by:	<i>Lucretia</i>	Received by:	<i>Lucretia</i>	<input checked="" type="checkbox"/> Std 10 WK Days	<input checked="" type="checkbox"/> 5 WK Days	<input type="checkbox"/> Other											
Relinquished by:		Checked by (Laboratory):		<input type="checkbox"/> Std 2 WK Days	<input type="checkbox"/> 24 Hour												
Logged by (Laboratory):		Time:	5-20-13	Time:	20:00												
Preservative Key:	1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035	Time:		Time:													

QC Package: (Check One Box Below)	
<input checked="" type="checkbox"/> Level I Std QC	<input type="checkbox"/> TRRP Check List
<input type="checkbox"/> Level II Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV
<input type="checkbox"/> Level III SW846/CLP	
<input type="checkbox"/> Other / EDD	

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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12-Jun-2013

Elaine Nomina
AECOM
4219 Malsbury Road
Cincinnati, OH 45242

Tel: (513) 878-6853
Fax: (513) 878-6848

Re: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: **1305471**

Dear Elaine,

ALS Environmental received 3 samples on 21-May-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 72.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

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Environmental 

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RIGHT SOLUTIONS. RIGHT PARTNER.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305471

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1305471-01	SED-2-0001	Soil		5/21/2013 09:00	5/22/2013 08:00	<input type="checkbox"/>
1305471-02	SED-5-0001	Soil		5/21/2013 12:30	5/22/2013 08:00	<input type="checkbox"/>
1305471-03	SW-5-052113	Water		5/21/2013 12:10	5/22/2013 08:00	<input type="checkbox"/>

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305471

Case Narrative

The analyses requested were analyzed according to Ohio Voluntary Action Program requirements.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The pesticides and herbicides analysis was performed by Microbac Laboratories, Marietta, OH.

All soils are reported as dry weight corrected.

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SED-2-0001

Lab ID: 1305471-01

Collection Date: 5/21/2013 09:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.19	mg/Kg-dry	1	5/29/2013 04:50 AM
Aroclor 1221	ND		0.38	mg/Kg-dry	1	5/29/2013 04:50 AM
Aroclor 1232	ND		0.19	mg/Kg-dry	1	5/29/2013 04:50 AM
Aroclor 1242	ND		0.19	mg/Kg-dry	1	5/29/2013 04:50 AM
Aroclor 1248	ND		0.19	mg/Kg-dry	1	5/29/2013 04:50 AM
Aroclor 1254	ND		0.19	mg/Kg-dry	1	5/29/2013 04:50 AM
Aroclor 1260	ND		0.19	mg/Kg-dry	1	5/29/2013 04:50 AM
Surr: Decachlorobiphenyl	95.0		22-156	%REC	1	5/29/2013 04:50 AM
Surr: Tetrachloro-m-xylene	94.4		34-145	%REC	1	5/29/2013 04:50 AM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	48		0.010	% of sample	1	5/22/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.52	mg/Kg-dry	1	5/28/2013 01:54 PM
METALS BY ICP			SW6010B		Prep Date: 5/22/2013	Analyst: VAW
Aluminum	4,200		950	mg/Kg-dry	1	5/22/2013 07:33 PM
Antimony	ND		5.7	mg/Kg-dry	1	5/22/2013 07:33 PM
Arsenic	ND		9.5	mg/Kg-dry	1	5/22/2013 07:33 PM
Barium	29		19	mg/Kg-dry	1	5/22/2013 07:33 PM
Beryllium	0.30		0.038	mg/Kg-dry	1	5/22/2013 07:33 PM
Cadmium	ND		1.9	mg/Kg-dry	1	5/22/2013 07:33 PM
Calcium	23,000		950	mg/Kg-dry	1	5/22/2013 07:33 PM
Chromium	8.1		3.8	mg/Kg-dry	1	5/22/2013 07:33 PM
Cobalt	ND		9.5	mg/Kg-dry	1	5/22/2013 07:33 PM
Copper	23		9.5	mg/Kg-dry	1	5/22/2013 07:33 PM
Iron	13,000		190	mg/Kg-dry	1	5/22/2013 07:33 PM
Lead	18		9.5	mg/Kg-dry	1	5/22/2013 07:33 PM
Magnesium	5,900		190	mg/Kg-dry	1	5/22/2013 07:33 PM
Manganese	130		9.5	mg/Kg-dry	1	5/22/2013 07:33 PM
Nickel	12		9.5	mg/Kg-dry	1	5/22/2013 07:33 PM
Potassium	ND		950	mg/Kg-dry	1	5/22/2013 07:33 PM
Selenium	ND		5.7	mg/Kg-dry	1	5/22/2013 07:33 PM
Silver	ND		1.9	mg/Kg-dry	1	5/22/2013 07:33 PM
Sodium	ND		950	mg/Kg-dry	1	5/22/2013 07:33 PM
Thallium	ND		5.7	mg/Kg-dry	1	5/22/2013 07:33 PM
Vanadium	ND		9.5	mg/Kg-dry	1	5/22/2013 07:33 PM
Zinc	59		9.5	mg/Kg-dry	1	5/22/2013 07:33 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/28/2013	Analyst: Microb

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SED-2-0001

Lab ID: 1305471-01

Collection Date: 5/21/2013 09:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		56	µg/Kg	1	5/31/2013 11:18 PM
4,4'-DDE	ND		56	µg/Kg	1	5/31/2013 11:18 PM
4,4'-DDT	ND		56	µg/Kg	1	5/31/2013 11:18 PM
Aldrin	ND		56	µg/Kg	1	5/31/2013 11:18 PM
alpha-BHC	ND		56	µg/Kg	1	5/31/2013 11:18 PM
alpha-Chlordane	ND		56	µg/Kg	1	5/31/2013 11:18 PM
beta-BHC	ND		56	µg/Kg	1	5/31/2013 11:18 PM
delta-BHC	ND		56	µg/Kg	1	5/31/2013 11:18 PM
Dieldrin	ND		56	µg/Kg	1	5/31/2013 11:18 PM
Endosulfan I	ND		56	µg/Kg	1	5/31/2013 11:18 PM
Endosulfan II	ND		56	µg/Kg	1	5/31/2013 11:18 PM
Endosulfan sulfate	ND		56	µg/Kg	1	5/31/2013 11:18 PM
Endrin	ND		56	µg/Kg	1	5/31/2013 11:18 PM
Endrin aldehyde	ND		56	µg/Kg	1	5/31/2013 11:18 PM
Endrin ketone	ND		56	µg/Kg	1	5/31/2013 11:18 PM
gamma-BHC (Lindane)	ND		56	µg/Kg	1	5/31/2013 11:18 PM
gamma-Chlordane	ND		56	µg/Kg	1	5/31/2013 11:18 PM
Heptachlor	ND		56	µg/Kg	1	5/31/2013 11:18 PM
Heptachlor epoxide	ND		56	µg/Kg	1	5/31/2013 11:18 PM
Methoxychlor	ND		56	µg/Kg	1	5/31/2013 11:18 PM
Toxaphene	ND		1,100	µg/Kg	1	5/31/2013 11:18 PM
<i>Surr: Decachlorobiphenyl</i>	0		33-143	%REC	1	5/31/2013 11:18 PM
<i>Surr: Tetrachloro-m-xylene</i>	0		39-130	%REC	1	5/31/2013 11:18 PM
HERBICIDES			SW8151		Prep Date: 5/29/2013	Analyst: Microb
2,4,5-T	ND		0.072	mg/Kg	1	6/3/2013 10:57 PM
2,4,5-TP (Silvex)	ND		0.054	mg/Kg	1	6/3/2013 10:57 PM
2,4-D	ND		0.72	mg/Kg	1	6/3/2013 10:57 PM
2,4-DB	ND		0.72	mg/Kg	1	6/3/2013 10:57 PM
Dalapon	ND		1.8	mg/Kg	1	6/3/2013 10:57 PM
Dicamba	ND		0.072	mg/Kg	1	6/3/2013 10:57 PM
Dichlorprop	ND		0.72	mg/Kg	1	6/3/2013 10:57 PM
Dinoseb	ND		0.36	mg/Kg	1	6/3/2013 10:57 PM
MCPA	ND		72	mg/Kg	1	6/3/2013 10:57 PM
MCPP	ND		72	mg/Kg	1	6/3/2013 10:57 PM
Pentachlorophenol	ND		0.072	mg/Kg	1	6/3/2013 10:57 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	0		25-110	%REC	1	6/3/2013 10:57 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 5/24/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
1,2,4-Trichlorobenzene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SED-2-0001

Lab ID: 1305471-01

Collection Date: 5/21/2013 09:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
1,3-Dichlorobenzene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
1,3-Dinitrobenzene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
1,4-Dichlorobenzene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
1-Methylnaphthalene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
1-Naphthylamine	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
2,3,4,6-Tetrachlorophenol	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
2,4,5-Trichlorophenol	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
2,4,6-Trichlorophenol	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
2,4-Dichlorophenol	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
2,4-Dimethylphenol	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
2,4-Dinitrophenol	ND		3,100	µg/Kg-dry	1	5/25/2013 01:25 AM
2,4-Dinitrotoluene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
2,6-Dichlorophenol	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
2,6-Dinitrotoluene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
2-Acetylaminofluorene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
2-Chloronaphthalene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
2-Chlorophenol	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
2-Methylnaphthalene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
2-Methylphenol	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
2-Naphthylamine	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
2-Nitroaniline	ND		3,100	µg/Kg-dry	1	5/25/2013 01:25 AM
2-Nitrophenol	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
2-Picoline	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
3&4-Methylphenol	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
3,3'-Dichlorobenzidine	ND		1,300	µg/Kg-dry	1	5/25/2013 01:25 AM
3-Methylcholanthrene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
3-Nitroaniline	ND		3,100	µg/Kg-dry	1	5/25/2013 01:25 AM
4,6-Dinitro-2-methylphenol	ND		3,100	µg/Kg-dry	1	5/25/2013 01:25 AM
4-Aminobiphenyl	ND		1,300	µg/Kg-dry	1	5/25/2013 01:25 AM
4-Bromophenyl phenyl ether	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
4-Chloro-3-methylphenol	ND		1,300	µg/Kg-dry	1	5/25/2013 01:25 AM
4-Chloroaniline	ND		1,300	µg/Kg-dry	1	5/25/2013 01:25 AM
4-Chlorophenyl phenyl ether	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
4-Nitroaniline	ND		1,300	µg/Kg-dry	1	5/25/2013 01:25 AM
4-Nitrophenol	ND		3,100	µg/Kg-dry	1	5/25/2013 01:25 AM
4-Nitroquinoline 1-oxide	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
5-Nitro-o-toluidine	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
7,12-Dimethylbenz(a)anthracene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Acenaphthene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SED-2-0001

Lab ID: 1305471-01

Collection Date: 5/21/2013 09:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Acetophenone	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Aniline	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Anthracene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Azobenzene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Benzidine	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Benzo(a)anthracene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Benzo(a)pyrene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Benzo(b)fluoranthene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Benzo(g,h,i)perylene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Benzo(k)fluoranthene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Benzyl alcohol	ND		1,300	µg/Kg-dry	1	5/25/2013 01:25 AM
Bis(2-chloroethoxy)methane	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Bis(2-chloroethyl)ether	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Bis(2-chloroisopropyl)ether	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Bis(2-ethylhexyl)phthalate	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Butyl benzyl phthalate	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Carbazole	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Chrysene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Dibenzo(a,h)anthracene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Dibenzofuran	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Diethyl phthalate	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Dimethyl phthalate	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Di-n-butyl phthalate	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Di-n-octyl phthalate	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Dinoseb	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Diphenylamine	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Ethyl methanesulfonate	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Fluoranthene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Fluorene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Hexachlorobenzene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Hexachlorobutadiene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Hexachlorocyclopentadiene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Hexachloroethane	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Indeno(1,2,3-cd)pyrene	ND		290	µg/Kg-dry	1	5/25/2013 01:25 AM
Isophorone	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Isosafrole	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Methapyrilene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Methyl methanesulfonate	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Naphthalene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SED-2-0001

Lab ID: 1305471-01

Collection Date: 5/21/2013 09:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
N-Nitrosodiethylamine	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
N-Nitrosodimethylamine	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
N-Nitroso-di-n-butylamine	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
N-Nitrosodi-n-propylamine	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
N-Nitrosomethylethylamine	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
N-Nitrosomorpholine	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
N-Nitrosopiperidine	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
N-Nitrosopyrrolidine	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
o-Toluidine	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
p-Dimethylaminoazobenzene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Pentachlorobenzene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Pentachloroethane	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Pentachloronitrobenzene	ND		1,300	µg/Kg-dry	1	5/25/2013 01:25 AM
Pentachlorophenol	ND		3,100	µg/Kg-dry	1	5/25/2013 01:25 AM
Phenacetin	ND		1,300	µg/Kg-dry	1	5/25/2013 01:25 AM
Phenanthrene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Phenol	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Pyrene	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Pyridine	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
Safrole	ND		630	µg/Kg-dry	1	5/25/2013 01:25 AM
<i>Surr: 2,4,6-Tribromophenol</i>	79.6		18-115	%REC	1	5/25/2013 01:25 AM
<i>Surr: 2-Fluorobiphenyl</i>	75.3		30-116	%REC	1	5/25/2013 01:25 AM
<i>Surr: 2-Fluorophenol</i>	54.0		24-105	%REC	1	5/25/2013 01:25 AM
<i>Surr: 4-Terphenyl-d14</i>	73.0		40-127	%REC	1	5/25/2013 01:25 AM
<i>Surr: Nitrobenzene-d5</i>	85.0		32-106	%REC	1	5/25/2013 01:25 AM
<i>Surr: Phenol-d5</i>	64.5		39-123	%REC	1	5/25/2013 01:25 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/24/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
1,1,1-Trichloroethane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
1,1,2,2-Tetrachloroethane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
1,1,2-Trichloroethane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
1,1-Dichloroethane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
1,1-Dichloroethene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
1,1-Dichloropropene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
1,2,3-Trichlorobenzene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
1,2,3-Trichloropropane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
1,2,4-Trichlorobenzene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
1,2,4-Trimethylbenzene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
1,2-Dibromo-3-chloropropane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SED-2-0001

Lab ID: 1305471-01

Collection Date: 5/21/2013 09:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
1,2-Dichlorobenzene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
1,2-Dichloroethane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
1,2-Dichloropropane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
1,3,5-Trimethylbenzene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
1,3-Dichlorobenzene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
1,3-Dichloropropane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
1,4-Dichlorobenzene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
2,2-Dichloropropane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
2-Butanone	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
2-Chlorotoluene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
2-Hexanone	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
4-Chlorotoluene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
4-Methyl-2-pentanone	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Acetone	27		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Benzene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Bromobenzene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Bromochloromethane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Bromodichloromethane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Bromoform	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Bromomethane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Carbon disulfide	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Carbon tetrachloride	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Chlorobenzene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Chloroethane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Chloroform	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Chloromethane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
cis-1,2-Dichloroethene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
cis-1,3-Dichloropropene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Dibromochloromethane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Dibromomethane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Dichlorodifluoromethane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Ethylbenzene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Hexachlorobutadiene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Isopropylbenzene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
m,p-Xylene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Methyl tert-butyl ether	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Methylene chloride	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Naphthalene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
n-Butylbenzene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SED-2-0001

Lab ID: 1305471-01

Collection Date: 5/21/2013 09:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
o-Xylene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
p-Isopropyltoluene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
sec-Butylbenzene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Styrene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
tert-Butylbenzene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Tetrachloroethene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Toluene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
trans-1,2-Dichloroethene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
trans-1,3-Dichloropropene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Trichloroethene	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Trichlorofluoromethane	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Vinyl chloride	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Xylenes, Total	ND		7.0	µg/Kg-dry	1	5/24/2013 03:54 PM
Surr: 4-Bromofluorobenzene	95.8		62.7-159	%REC	1	5/24/2013 03:54 PM
Surr: Dibromofluoromethane	99.0		88.2-133	%REC	1	5/24/2013 03:54 PM
Surr: Toluene-d8	97.0		81.5-110	%REC	1	5/24/2013 03:54 PM
TOTAL ORGANIC CARBON BY WALKLEY-BLACK			WALKLEY-BLACK			Analyst: KMW
Total Organic Carbon	1.6		0.025	%	1	5/29/2013

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SED-5-0001

Lab ID: 1305471-02

Collection Date: 5/21/2013 12:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	5/29/2013 04:50 AM
Aroclor 1221	ND		0.25	mg/Kg-dry	1	5/29/2013 04:50 AM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	5/29/2013 04:50 AM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	5/29/2013 04:50 AM
Aroclor 1248	ND		0.13	mg/Kg-dry	1	5/29/2013 04:50 AM
Aroclor 1254	ND		0.13	mg/Kg-dry	1	5/29/2013 04:50 AM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	5/29/2013 04:50 AM
Surr: Decachlorobiphenyl	89.6		22-156	%REC	1	5/29/2013 04:50 AM
Surr: Tetrachloro-m-xylene	88.0		34-145	%REC	1	5/29/2013 04:50 AM
MOISTURE			SM2540B		Prep Date: 5/22/2013	Analyst: KMW
Moisture	20		0.010	% of sample	1	5/22/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.35	mg/Kg-dry	1	5/28/2013 01:56 PM
METALS BY ICP			SW6010B		Prep Date: 5/22/2013	Analyst: VAW
Aluminum	6,400		620	mg/Kg-dry	1	5/22/2013 07:39 PM
Antimony	ND		3.7	mg/Kg-dry	1	5/22/2013 07:39 PM
Arsenic	11		6.2	mg/Kg-dry	1	5/22/2013 07:39 PM
Barium	27		12	mg/Kg-dry	1	5/22/2013 07:39 PM
Beryllium	0.58		0.025	mg/Kg-dry	1	5/22/2013 07:39 PM
Cadmium	ND		1.2	mg/Kg-dry	1	5/22/2013 07:39 PM
Calcium	2,100		620	mg/Kg-dry	1	5/22/2013 07:39 PM
Chromium	12		2.5	mg/Kg-dry	1	5/22/2013 07:39 PM
Cobalt	7.9		6.2	mg/Kg-dry	1	5/22/2013 07:39 PM
Copper	22		6.2	mg/Kg-dry	1	5/22/2013 07:39 PM
Iron	22,000		120	mg/Kg-dry	1	5/22/2013 07:39 PM
Lead	14		6.2	mg/Kg-dry	1	5/22/2013 07:39 PM
Magnesium	1,700		120	mg/Kg-dry	1	5/22/2013 07:39 PM
Manganese	350		6.2	mg/Kg-dry	1	5/22/2013 07:39 PM
Nickel	23		6.2	mg/Kg-dry	1	5/22/2013 07:39 PM
Potassium	ND		620	mg/Kg-dry	1	5/22/2013 07:39 PM
Selenium	ND		3.7	mg/Kg-dry	1	5/22/2013 07:39 PM
Silver	ND		1.2	mg/Kg-dry	1	5/22/2013 07:39 PM
Sodium	ND		620	mg/Kg-dry	1	5/22/2013 07:39 PM
Thallium	ND		3.7	mg/Kg-dry	1	5/22/2013 07:39 PM
Vanadium	18		6.2	mg/Kg-dry	1	5/22/2013 07:39 PM
Zinc	49		6.2	mg/Kg-dry	1	5/22/2013 07:39 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/28/2013	Analyst: Microb

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SED-5-0001

Lab ID: 1305471-02

Collection Date: 5/21/2013 12:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		2.0	µg/Kg	1	5/31/2013 11:46 PM
4,4'-DDE	ND		2.0	µg/Kg	1	5/31/2013 11:46 PM
4,4'-DDT	ND		2.0	µg/Kg	1	5/31/2013 11:46 PM
Aldrin	ND		2.0	µg/Kg	1	5/31/2013 11:46 PM
alpha-BHC	ND		2.0	µg/Kg	1	5/31/2013 11:46 PM
alpha-Chlordane	ND		2.0	µg/Kg	1	5/31/2013 11:46 PM
beta-BHC	ND		2.0	µg/Kg	1	5/31/2013 11:46 PM
delta-BHC	ND		2.0	µg/Kg	1	5/31/2013 11:46 PM
Dieldrin	ND		2.0	µg/Kg	1	5/31/2013 11:46 PM
Endosulfan I	ND		2.0	µg/Kg	1	5/31/2013 11:46 PM
Endosulfan II	ND		2.0	µg/Kg	1	5/31/2013 11:46 PM
Endosulfan sulfate	ND		2.0	µg/Kg	1	5/31/2013 11:46 PM
Endrin	ND		2.0	µg/Kg	1	5/31/2013 11:46 PM
Endrin aldehyde	ND		2.0	µg/Kg	1	5/31/2013 11:46 PM
Endrin ketone	ND		2.0	µg/Kg	1	5/31/2013 11:46 PM
gamma-BHC (Lindane)	ND		2.0	µg/Kg	1	5/31/2013 11:46 PM
gamma-Chlordane	ND		2.0	µg/Kg	1	5/31/2013 11:46 PM
Heptachlor	ND		2.0	µg/Kg	1	5/31/2013 11:46 PM
Heptachlor epoxide	ND		2.0	µg/Kg	1	5/31/2013 11:46 PM
Methoxychlor	ND		2.0	µg/Kg	1	5/31/2013 11:46 PM
Toxaphene	ND		40	µg/Kg	1	5/31/2013 11:46 PM
<i>Surr: Decachlorobiphenyl</i>	56.2		33-143	%REC	1	5/31/2013 11:46 PM
<i>Surr: Tetrachloro-m-xylene</i>	52.9		39-130	%REC	1	5/31/2013 11:46 PM

HERBICIDES

SW8151

Prep Date: 5/29/2013

Analyst: Microb

2,4,5-T	ND		0.0055	mg/Kg	1	6/3/2013 07:31 PM
2,4,5-TP (Silvex)	ND		0.0042	mg/Kg	1	6/3/2013 07:31 PM
2,4-D	ND		0.055	mg/Kg	1	6/3/2013 07:31 PM
2,4-DB	ND		0.055	mg/Kg	1	6/3/2013 07:31 PM
Dalapon	ND		0.14	mg/Kg	1	6/3/2013 07:31 PM
Dicamba	ND		0.0055	mg/Kg	1	6/3/2013 07:31 PM
Dichlorprop	ND		0.055	mg/Kg	1	6/3/2013 07:31 PM
Dinoseb	ND		0.028	mg/Kg	1	6/3/2013 07:31 PM
MCPA	ND		5.5	mg/Kg	1	6/3/2013 07:31 PM
MCPP	ND		5.5	mg/Kg	1	6/3/2013 07:31 PM
Pentachlorophenol	ND		0.0055	mg/Kg	1	6/3/2013 07:31 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	132	S	25-110	%REC	1	6/3/2013 07:31 PM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 5/24/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
1,2,4-Trichlorobenzene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SED-5-0001

Lab ID: 1305471-02

Collection Date: 5/21/2013 12:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
1,3-Dichlorobenzene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
1,3-Dinitrobenzene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
1,4-Dichlorobenzene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
1-Methylnaphthalene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
1-Naphthylamine	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
2,3,4,6-Tetrachlorophenol	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
2,4,5-Trichlorophenol	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
2,4,6-Trichlorophenol	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
2,4-Dichlorophenol	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
2,4-Dimethylphenol	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
2,4-Dinitrophenol	ND		2,100	µg/Kg-dry	1	5/25/2013 01:59 AM
2,4-Dinitrotoluene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
2,6-Dichlorophenol	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
2,6-Dinitrotoluene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
2-Acetylaminofluorene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
2-Chloronaphthalene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
2-Chlorophenol	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
2-Methylnaphthalene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
2-Methylphenol	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
2-Naphthylamine	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
2-Nitroaniline	ND		2,100	µg/Kg-dry	1	5/25/2013 01:59 AM
2-Nitrophenol	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
2-Picoline	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
3&4-Methylphenol	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
3,3'-Dichlorobenzidine	ND		830	µg/Kg-dry	1	5/25/2013 01:59 AM
3-Methylcholanthrene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
3-Nitroaniline	ND		2,100	µg/Kg-dry	1	5/25/2013 01:59 AM
4,6-Dinitro-2-methylphenol	ND		2,100	µg/Kg-dry	1	5/25/2013 01:59 AM
4-Aminobiphenyl	ND		830	µg/Kg-dry	1	5/25/2013 01:59 AM
4-Bromophenyl phenyl ether	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
4-Chloro-3-methylphenol	ND		830	µg/Kg-dry	1	5/25/2013 01:59 AM
4-Chloroaniline	ND		830	µg/Kg-dry	1	5/25/2013 01:59 AM
4-Chlorophenyl phenyl ether	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
4-Nitroaniline	ND		830	µg/Kg-dry	1	5/25/2013 01:59 AM
4-Nitrophenol	ND		2,100	µg/Kg-dry	1	5/25/2013 01:59 AM
4-Nitroquinoline 1-oxide	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
5-Nitro-o-toluidine	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
7,12-Dimethylbenz(a)anthracene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Acenaphthene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SED-5-0001

Lab ID: 1305471-02

Collection Date: 5/21/2013 12:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Acetophenone	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Aniline	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Anthracene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Azobenzene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Benzidine	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Benzo(a)anthracene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Benzo(a)pyrene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Benzo(b)fluoranthene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Benzo(g,h,i)perylene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Benzo(k)fluoranthene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Benzyl alcohol	ND		830	µg/Kg-dry	1	5/25/2013 01:59 AM
Bis(2-chloroethoxy)methane	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Bis(2-chloroethyl)ether	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Bis(2-chloroisopropyl)ether	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Bis(2-ethylhexyl)phthalate	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Butyl benzyl phthalate	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Carbazole	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Chrysene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Dibenzo(a,h)anthracene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Dibenzofuran	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Diethyl phthalate	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Dimethyl phthalate	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Di-n-butyl phthalate	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Di-n-octyl phthalate	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Dinoseb	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Diphenylamine	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Ethyl methanesulfonate	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Fluoranthene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Fluorene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Hexachlorobenzene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Hexachlorobutadiene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Hexachlorocyclopentadiene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Hexachloroethane	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Indeno(1,2,3-cd)pyrene	ND		190	µg/Kg-dry	1	5/25/2013 01:59 AM
Isophorone	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Isosafrole	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Methapyrilene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Methyl methanesulfonate	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Naphthalene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SED-5-0001

Lab ID: 1305471-02

Collection Date: 5/21/2013 12:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
N-Nitrosodiethylamine	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
N-Nitrosodimethylamine	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
N-Nitroso-di-n-butylamine	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
N-Nitrosodi-n-propylamine	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
N-Nitrosomethylethylamine	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
N-Nitrosomorpholine	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
N-Nitrosopiperidine	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
N-Nitrosopyrrolidine	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
o-Toluidine	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
p-Dimethylaminoazobenzene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Pentachlorobenzene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Pentachloroethane	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Pentachloronitrobenzene	ND		830	µg/Kg-dry	1	5/25/2013 01:59 AM
Pentachlorophenol	ND		2,100	µg/Kg-dry	1	5/25/2013 01:59 AM
Phenacetin	ND		830	µg/Kg-dry	1	5/25/2013 01:59 AM
Phenanthrene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Phenol	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Pyrene	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Pyridine	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
Safrole	ND		410	µg/Kg-dry	1	5/25/2013 01:59 AM
<i>Surr: 2,4,6-Tribromophenol</i>	76.3		18-115	%REC	1	5/25/2013 01:59 AM
<i>Surr: 2-Fluorobiphenyl</i>	71.4		30-116	%REC	1	5/25/2013 01:59 AM
<i>Surr: 2-Fluorophenol</i>	52.6		24-105	%REC	1	5/25/2013 01:59 AM
<i>Surr: 4-Terphenyl-d14</i>	63.2		40-127	%REC	1	5/25/2013 01:59 AM
<i>Surr: Nitrobenzene-d5</i>	75.2		32-106	%REC	1	5/25/2013 01:59 AM
<i>Surr: Phenol-d5</i>	60.8		39-123	%REC	1	5/25/2013 01:59 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/24/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
1,1,1-Trichloroethane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
1,1,2,2-Tetrachloroethane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
1,1,2-Trichloroethane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
1,1-Dichloroethane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
1,1-Dichloroethene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
1,1-Dichloropropene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
1,2,3-Trichlorobenzene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
1,2,3-Trichloropropane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
1,2,4-Trichlorobenzene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
1,2,4-Trimethylbenzene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
1,2-Dibromo-3-chloropropane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SED-5-0001

Lab ID: 1305471-02

Collection Date: 5/21/2013 12:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
1,2-Dichlorobenzene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
1,2-Dichloroethane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
1,2-Dichloropropane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
1,3,5-Trimethylbenzene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
1,3-Dichlorobenzene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
1,3-Dichloropropane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
1,4-Dichlorobenzene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
2,2-Dichloropropane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
2-Butanone	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
2-Chlorotoluene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
2-Hexanone	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
4-Chlorotoluene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
4-Methyl-2-pentanone	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Acetone	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Benzene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Bromobenzene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Bromochloromethane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Bromodichloromethane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Bromoform	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Bromomethane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Carbon disulfide	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Carbon tetrachloride	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Chlorobenzene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Chloroethane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Chloroform	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Chloromethane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
cis-1,2-Dichloroethene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
cis-1,3-Dichloropropene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Dibromochloromethane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Dibromomethane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Dichlorodifluoromethane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Ethylbenzene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Hexachlorobutadiene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Isopropylbenzene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
m,p-Xylene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Methyl tert-butyl ether	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Methylene chloride	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Naphthalene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
n-Butylbenzene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SED-5-0001

Lab ID: 1305471-02

Collection Date: 5/21/2013 12:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
o-Xylene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
p-Isopropyltoluene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
sec-Butylbenzene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Styrene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
tert-Butylbenzene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Tetrachloroethene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Toluene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
trans-1,2-Dichloroethene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
trans-1,3-Dichloropropene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Trichloroethene	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Trichlorofluoromethane	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Vinyl chloride	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Xylenes, Total	ND		4.2	µg/Kg-dry	1	5/24/2013 04:25 PM
Surr: 4-Bromofluorobenzene	95.0		62.7-159	%REC	1	5/24/2013 04:25 PM
Surr: Dibromofluoromethane	100		88.2-133	%REC	1	5/24/2013 04:25 PM
Surr: Toluene-d8	98.8		81.5-110	%REC	1	5/24/2013 04:25 PM
TOTAL ORGANIC CARBON BY WALKLEY-BLACK						
Total Organic Carbon	0.14		0.025	%	1	Analyst: KMW 5/29/2013

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SW-5-052113

Lab ID: 1305471-03

Collection Date: 5/21/2013 12:10 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.58	µg/L	1	5/24/2013
Aroclor 1221	ND		0.58	µg/L	1	5/24/2013
Aroclor 1232	ND		0.58	µg/L	1	5/24/2013
Aroclor 1242	ND		0.58	µg/L	1	5/24/2013
Aroclor 1248	ND		0.58	µg/L	1	5/24/2013
Aroclor 1254	ND		0.58	µg/L	1	5/24/2013
Aroclor 1260	ND		0.58	µg/L	1	5/24/2013
Surr: Decachlorobiphenyl	72.0		37-108	%REC	1	5/24/2013
Surr: Tetrachloro-m-xylene	78.4		9-136	%REC	1	5/24/2013
MERCURY BY CVAA			SW7470A		Prep Date: 5/27/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	5/28/2013 06:09 PM
METALS BY ICP			SW6010B		Prep Date: 5/22/2013	Analyst: VAW
Aluminum	0.76		0.20	mg/L	1	5/22/2013 06:22 PM
Antimony	ND		0.0060	mg/L	1	5/22/2013 06:22 PM
Arsenic	ND		0.010	mg/L	1	5/22/2013 06:22 PM
Barium	ND		0.10	mg/L	1	5/22/2013 06:22 PM
Beryllium	ND		0.0040	mg/L	1	5/22/2013 06:22 PM
Cadmium	ND		0.0050	mg/L	1	5/22/2013 06:22 PM
Calcium	240		0.20	mg/L	1	5/22/2013 06:22 PM
Chromium	ND		0.020	mg/L	1	5/22/2013 06:22 PM
Cobalt	ND		0.050	mg/L	1	5/22/2013 06:22 PM
Copper	ND		0.025	mg/L	1	5/22/2013 06:22 PM
Iron	1.6		0.20	mg/L	1	5/22/2013 06:22 PM
Lead	ND		0.015	mg/L	1	5/22/2013 06:22 PM
Magnesium	32		0.20	mg/L	1	5/22/2013 06:22 PM
Manganese	2.4		0.050	mg/L	1	5/22/2013 06:22 PM
Nickel	ND		0.040	mg/L	1	5/22/2013 06:22 PM
Potassium	4.8		0.20	mg/L	1	5/22/2013 06:22 PM
Selenium	ND		0.030	mg/L	1	5/22/2013 06:22 PM
Silver	ND		0.010	mg/L	1	5/22/2013 06:22 PM
Sodium	62		0.20	mg/L	1	5/22/2013 06:22 PM
Thallium	0.0049		0.0020	mg/L	1	5/23/2013 08:40 AM
Vanadium	ND		0.050	mg/L	1	5/22/2013 06:22 PM
Zinc	0.051		0.050	mg/L	1	5/22/2013 06:22 PM
SM2340B HARDNESS BY CALCULATION			SM2340B			Analyst: KMW
CaCO3	660		5.0	mg/L	1	5/28/2013
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/28/2013	Analyst: Microb

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SW-5-052113

Lab ID: 1305471-03

Collection Date: 5/21/2013 12:10 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		0.051	µg/L	1	6/3/2013 08:21 PM
4,4'-DDE	ND		0.051	µg/L	1	6/3/2013 08:21 PM
4,4'-DDT	ND		0.051	µg/L	1	6/3/2013 08:21 PM
Aldrin	ND		0.051	µg/L	1	6/3/2013 08:21 PM
alpha Chlordane	ND		0.051	µg/L	1	6/3/2013 08:21 PM
alpha-BHC	ND		0.051	µg/L	1	6/3/2013 08:21 PM
beta-BHC	ND		0.051	µg/L	1	6/3/2013 08:21 PM
delta-BHC	ND		0.051	µg/L	1	6/3/2013 08:21 PM
Dieldrin	ND		0.051	µg/L	1	6/3/2013 08:21 PM
Endosulfan I	ND		0.051	µg/L	1	6/3/2013 08:21 PM
Endosulfan II	ND		0.051	µg/L	1	6/3/2013 08:21 PM
Endosulfan sulfate	ND		0.051	µg/L	1	6/3/2013 08:21 PM
Endrin	ND		0.051	µg/L	1	6/3/2013 08:21 PM
Endrin aldehyde	ND		0.051	µg/L	1	6/3/2013 08:21 PM
Endrin ketone	ND		0.051	µg/L	1	6/3/2013 08:21 PM
gamma Chlordane	ND		0.051	µg/L	1	6/3/2013 08:21 PM
gamma-BHC (Lindane)	ND		0.051	µg/L	1	6/3/2013 08:21 PM
Heptachlor	ND		0.051	µg/L	1	6/3/2013 08:21 PM
Heptachlor epoxide	ND		0.051	µg/L	1	6/3/2013 08:21 PM
Methoxychlor	ND		0.051	µg/L	1	6/3/2013 08:21 PM
Toxaphene	ND		1.0	µg/L	1	6/3/2013 08:21 PM
<i>Surr: Decachlorobiphenyl</i>	40.6		25-140	%REC	1	6/3/2013 08:21 PM
<i>Surr: Tetrachloro-m-xylene</i>	41.3		20-180	%REC	1	6/3/2013 08:21 PM

HERBICIDES

SW8151

Prep Date: 5/23/2013

Analyst: Microb

2,4,5-T	ND		0.20	µg/L	1	5/29/2013 11:29 PM
2,4,5-TP (Silvex)	ND		0.20	µg/L	1	5/29/2013 11:29 PM
2,4-D	ND		2.0	µg/L	1	5/29/2013 11:29 PM
2,4-DB	ND		2.0	µg/L	1	5/29/2013 11:29 PM
Dalapon	ND		5.0	µg/L	1	5/29/2013 11:29 PM
Dicamba	ND		0.20	µg/L	1	5/29/2013 11:29 PM
Dichlorprop	ND		2.0	µg/L	1	5/29/2013 11:29 PM
Dinoseb	ND		1.0	µg/L	1	5/29/2013 11:29 PM
MCPA	ND		250	µg/L	1	5/29/2013 11:29 PM
MCPP	ND		250	µg/L	1	5/29/2013 11:29 PM
Pentachlorophenol	ND		0.20	µg/L	1	5/29/2013 11:29 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	80.7		20-144	%REC	1	5/29/2013 11:29 PM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 5/23/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		12	µg/L	1	5/29/2013 01:39 AM
1,2,4-Trichlorobenzene	ND		12	µg/L	1	5/29/2013 01:39 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SW-5-052113

Lab ID: 1305471-03

Collection Date: 5/21/2013 12:10 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		12	µg/L	1	5/29/2013 01:39 AM
1,3-Dichlorobenzene	ND		12	µg/L	1	5/29/2013 01:39 AM
1,3-Dinitrobenzene	ND		12	µg/L	1	5/29/2013 01:39 AM
1,4-Dichlorobenzene	ND		12	µg/L	1	5/29/2013 01:39 AM
1-Methylnaphthalene	ND		0.12	µg/L	1	5/28/2013 10:42 PM
1-Naphthylamine	ND		12	µg/L	1	5/29/2013 01:39 AM
2,3,4,6-Tetrachlorophenol	ND		12	µg/L	1	5/29/2013 01:39 AM
2,4,5-Trichlorophenol	ND		12	µg/L	1	5/29/2013 01:39 AM
2,4,6-Trichlorophenol	ND		12	µg/L	1	5/29/2013 01:39 AM
2,4-Dichlorophenol	ND		12	µg/L	1	5/29/2013 01:39 AM
2,4-Dimethylphenol	ND		12	µg/L	1	5/29/2013 01:39 AM
2,4-Dinitrophenol	ND		12	µg/L	1	5/29/2013 01:39 AM
2,4-Dinitrotoluene	ND		12	µg/L	1	5/29/2013 01:39 AM
2,6-Dichlorophenol	ND		12	µg/L	1	5/29/2013 01:39 AM
2,6-Dinitrotoluene	ND		12	µg/L	1	5/29/2013 01:39 AM
2-Acetylaminofluorene	ND		12	µg/L	1	5/29/2013 01:39 AM
2-Chloronaphthalene	ND		12	µg/L	1	5/29/2013 01:39 AM
2-Chlorophenol	ND		12	µg/L	1	5/29/2013 01:39 AM
2-Methylnaphthalene	ND		0.12	µg/L	1	5/28/2013 10:42 PM
2-Methylphenol	ND		12	µg/L	1	5/29/2013 01:39 AM
2-Naphthylamine	ND		23	µg/L	1	5/29/2013 01:39 AM
2-Nitroaniline	ND		12	µg/L	1	5/29/2013 01:39 AM
2-Nitrophenol	ND		12	µg/L	1	5/29/2013 01:39 AM
2-Picoline	ND		23	µg/L	1	5/29/2013 01:39 AM
3&4-Methylphenol	ND		12	µg/L	1	5/29/2013 01:39 AM
3,3'-Dichlorobenzidine	ND		12	µg/L	1	5/29/2013 01:39 AM
3-Methylcholanthrene	ND		23	µg/L	1	5/29/2013 01:39 AM
3-Nitroaniline	ND		23	µg/L	1	5/29/2013 01:39 AM
4,6-Dinitro-2-methylphenol	ND		23	µg/L	1	5/29/2013 01:39 AM
4-Aminobiphenyl	ND		12	µg/L	1	5/29/2013 01:39 AM
4-Bromophenyl phenyl ether	ND		23	µg/L	1	5/29/2013 01:39 AM
4-Chloro-3-methylphenol	ND		23	µg/L	1	5/29/2013 01:39 AM
4-Chloroaniline	ND		12	µg/L	1	5/29/2013 01:39 AM
4-Chlorophenyl phenyl ether	ND		23	µg/L	1	5/29/2013 01:39 AM
4-Nitroaniline	ND		23	µg/L	1	5/29/2013 01:39 AM
4-Nitrophenol	ND		12	µg/L	1	5/29/2013 01:39 AM
4-Nitroquinoline 1-oxide	ND		12	µg/L	1	5/29/2013 01:39 AM
5-Nitro-o-toluidine	ND		12	µg/L	1	5/29/2013 01:39 AM
7,12-Dimethylbenz(a)anthracene	ND		12	µg/L	1	5/29/2013 01:39 AM
Acenaphthene	ND		0.12	µg/L	1	5/28/2013 10:42 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SW-5-052113

Lab ID: 1305471-03

Collection Date: 5/21/2013 12:10 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		0.12	µg/L	1	5/28/2013 10:42 PM
Acetophenone	ND		12	µg/L	1	5/29/2013 01:39 AM
Aniline	ND		12	µg/L	1	5/29/2013 01:39 AM
Anthracene	ND		0.12	µg/L	1	5/28/2013 10:42 PM
Azobenzene	ND		12	µg/L	1	5/29/2013 01:39 AM
Benzidine	ND		12	µg/L	1	5/29/2013 01:39 AM
Benzo(a)anthracene	ND		0.12	µg/L	1	5/28/2013 10:42 PM
Benzo(a)pyrene	ND		0.12	µg/L	1	5/28/2013 10:42 PM
Benzo(b)fluoranthene	ND		0.13	µg/L	1	5/28/2013 10:42 PM
Benzo(g,h,i)perylene	ND		0.12	µg/L	1	5/28/2013 10:42 PM
Benzo(k)fluoranthene	ND		0.19	µg/L	1	5/28/2013 10:42 PM
Benzyl alcohol	ND		12	µg/L	1	5/29/2013 01:39 AM
Bis(2-chloroethoxy)methane	ND		12	µg/L	1	5/29/2013 01:39 AM
Bis(2-chloroethyl)ether	ND		12	µg/L	1	5/29/2013 01:39 AM
Bis(2-chloroisopropyl)ether	ND		12	µg/L	1	5/29/2013 01:39 AM
Bis(2-ethylhexyl)phthalate	ND		12	µg/L	1	5/29/2013 01:39 AM
Butyl benzyl phthalate	ND		12	µg/L	1	5/29/2013 01:39 AM
Carbazole	ND		12	µg/L	1	5/28/2013 10:42 PM
Chrysene	ND		0.12	µg/L	1	5/28/2013 10:42 PM
Dibenzo(a,h)anthracene	ND		0.12	µg/L	1	5/28/2013 10:42 PM
Dibenzofuran	ND		12	µg/L	1	5/28/2013 10:42 PM
Diethyl phthalate	ND		12	µg/L	1	5/29/2013 01:39 AM
Dimethyl phthalate	ND		12	µg/L	1	5/29/2013 01:39 AM
Di-n-butyl phthalate	ND		12	µg/L	1	5/29/2013 01:39 AM
Di-n-octyl phthalate	ND		12	µg/L	1	5/29/2013 01:39 AM
Dinoseb	ND		23	µg/L	1	5/29/2013 01:39 AM
Diphenylamine	ND		12	µg/L	1	5/29/2013 01:39 AM
Ethyl methanesulfonate	ND		12	µg/L	1	5/29/2013 01:39 AM
Fluoranthene	ND		0.12	µg/L	1	5/28/2013 10:42 PM
Fluorene	ND		0.12	µg/L	1	5/28/2013 10:42 PM
Hexachlorobenzene	ND		12	µg/L	1	5/29/2013 01:39 AM
Hexachlorobutadiene	ND		12	µg/L	1	5/29/2013 01:39 AM
Hexachlorocyclopentadiene	ND		12	µg/L	1	5/29/2013 01:39 AM
Hexachloroethane	ND		12	µg/L	1	5/29/2013 01:39 AM
Indeno(1,2,3-cd)pyrene	ND		0.12	µg/L	1	5/28/2013 10:42 PM
Isophorone	ND		12	µg/L	1	5/29/2013 01:39 AM
Isosafrole	ND		12	µg/L	1	5/29/2013 01:39 AM
Methapyrilene	ND		12	µg/L	1	5/29/2013 01:39 AM
Methyl methanesulfonate	ND		12	µg/L	1	5/29/2013 01:39 AM
Naphthalene	ND		0.12	µg/L	1	5/28/2013 10:42 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SW-5-052113

Lab ID: 1305471-03

Collection Date: 5/21/2013 12:10 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		12	µg/L	1	5/29/2013 01:39 AM
N-Nitrosodiethylamine	ND		12	µg/L	1	5/29/2013 01:39 AM
N-Nitrosodimethylamine	ND		12	µg/L	1	5/29/2013 01:39 AM
N-Nitroso-di-n-butylamine	ND		12	µg/L	1	5/29/2013 01:39 AM
N-Nitrosodi-n-propylamine	ND		12	µg/L	1	5/29/2013 01:39 AM
N-Nitrosomethylethylamine	ND		12	µg/L	1	5/29/2013 01:39 AM
N-Nitrosomorpholine	ND		12	µg/L	1	5/29/2013 01:39 AM
N-Nitrosopiperidine	ND		12	µg/L	1	5/29/2013 01:39 AM
N-Nitrosopyrrolidine	ND		12	µg/L	1	5/29/2013 01:39 AM
o-Toluidine	ND		12	µg/L	1	5/29/2013 01:39 AM
p-Dimethylaminoazobenzene	ND		12	µg/L	1	5/29/2013 01:39 AM
Pentachlorobenzene	ND		12	µg/L	1	5/29/2013 01:39 AM
Pentachloroethane	ND		12	µg/L	1	5/29/2013 01:39 AM
Pentachloronitrobenzene	ND		23	µg/L	1	5/29/2013 01:39 AM
Pentachlorophenol	ND		23	µg/L	1	5/29/2013 01:39 AM
Phenacetin	ND		23	µg/L	1	5/29/2013 01:39 AM
Phenanthrene	ND		0.12	µg/L	1	5/28/2013 10:42 PM
Phenol	ND		12	µg/L	1	5/29/2013 01:39 AM
Pyrene	ND		0.12	µg/L	1	5/28/2013 10:42 PM
Pyridine	ND		12	µg/L	1	5/29/2013 01:39 AM
Safrole	ND		12	µg/L	1	5/29/2013 01:39 AM
<i>Surr: 2,4,6-Tribromophenol</i>	73.2		35-120	%REC	1	5/29/2013 01:39 AM
<i>Surr: 2-Fluorobiphenyl</i>	63.4		38-105	%REC	1	5/29/2013 01:39 AM
<i>Surr: 2-Fluorophenol</i>	34.1		12-89	%REC	1	5/29/2013 01:39 AM
<i>Surr: 4-Terphenyl-d14</i>	81.4		42-125	%REC	1	5/29/2013 01:39 AM
<i>Surr: Nitrobenzene-d5</i>	70.1		28-120	%REC	1	5/29/2013 01:39 AM
<i>Surr: Phenol-d5</i>	23.3		10-62	%REC	1	5/29/2013 01:39 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	5/24/2013 02:54 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	5/24/2013 02:54 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	5/24/2013 02:54 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	5/24/2013 02:54 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	5/24/2013 02:54 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	5/24/2013 02:54 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	5/24/2013 02:54 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SW-5-052113

Lab ID: 1305471-03

Collection Date: 5/21/2013 12:10 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.0	µg/L	1	5/24/2013 02:54 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	5/24/2013 02:54 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	5/24/2013 02:54 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	5/24/2013 02:54 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	5/24/2013 02:54 PM
2-Butanone	ND		5.0	µg/L	1	5/24/2013 02:54 PM
2-Chlorotoluene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
2-Hexanone	ND		5.0	µg/L	1	5/24/2013 02:54 PM
4-Chlorotoluene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Acetone	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Benzene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Bromobenzene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Bromochloromethane	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Bromodichloromethane	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Bromoform	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Bromomethane	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Carbon disulfide	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Carbon tetrachloride	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Chlorobenzene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Chloroethane	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Chloroform	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Chloromethane	ND		5.0	µg/L	1	5/24/2013 02:54 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Dibromochloromethane	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Dibromomethane	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Ethylbenzene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Isopropylbenzene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
m,p-Xylene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Methylene chloride	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Naphthalene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
n-Butylbenzene	ND		5.0	µg/L	1	5/24/2013 02:54 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305471

Sample ID: SW-5-052113

Lab ID: 1305471-03

Collection Date: 5/21/2013 12:10 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
o-Xylene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
sec-Butylbenzene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Styrene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
tert-Butylbenzene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Tetrachloroethene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Toluene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Trichloroethene	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Vinyl chloride	ND		2.0	µg/L	1	5/24/2013 02:54 PM
Xylenes, Total	ND		5.0	µg/L	1	5/24/2013 02:54 PM
Surr: 4-Bromofluorobenzene	95.7		61-131	%REC	1	5/24/2013 02:54 PM
Surr: Dibromofluoromethane	96.1		87-126	%REC	1	5/24/2013 02:54 PM
Surr: Toluene-d8	99.9		84-111	%REC	1	5/24/2013 02:54 PM

Note:

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16791** Instrument ID: **GC9** Method: **SW8082**

MBLK		Sample ID: MBLK-16791-16791			Units: µg/L		Analysis Date: 5/24/2013			
Client ID:		Run ID: GC9_130524A			SeqNo: 615464		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.50								
Aroclor 1221	ND	0.50								
Aroclor 1232	ND	0.50								
Aroclor 1242	ND	0.50								
Aroclor 1248	ND	0.50								
Aroclor 1254	ND	0.50								
Aroclor 1260	ND	0.50								
<i>Surr: Decachlorobiphenyl</i>	0.2	0	0.25	0	80	37-108	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.188	0	0.25	0	75.2	9-136	0			

LCS		Sample ID: LCS-16791-16791			Units: µg/L		Analysis Date: 5/24/2013			
Client ID:		Run ID: GC9_130524A			SeqNo: 615465		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	9.787	0.50	10	0	97.9	61-122	0			
<i>Surr: Decachlorobiphenyl</i>	0.192	0	0.25	0	76.8	37-108	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.196	0	0.25	0	78.4	9-136	0			

The following samples were analyzed in this batch: 1305471-03D

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16868 Instrument ID: GC9 Method: SW8082

MBLK		Sample ID: MBLK-16868-16868			Units: mg/Kg		Analysis Date: 5/29/2013 01:00 PM			
Client ID:		Run ID: GC9_130529A			SeqNo: 617273		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.0948	0	0.1	0	94.8	22-156	0			
Surr: Tetrachloro-m-xylene	0.0962	0	0.1	0	96.2	34-145	0			

LCS		Sample ID: LCS-16868-16868			Units: mg/Kg		Analysis Date: 5/29/2013 01:00 PM			
Client ID:		Run ID: GC9_130529A			SeqNo: 617274		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.423	0.10	2	0	121	50-133	0			
Surr: Decachlorobiphenyl	0.1012	0	0.1	0	101	22-156	0			
Surr: Tetrachloro-m-xylene	0.1162	0	0.1	0	116	34-145	0			

MS		Sample ID: MS 1305450-23A			Units: mg/Kg		Analysis Date: 5/29/2013 01:00 PM			
Client ID:		Run ID: GC9_130529A			SeqNo: 617275		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.199	0.099	1.984	0	111	31-150	0			
Surr: Decachlorobiphenyl	0.09187	0	0.09921	0	92.6	22-156	0			
Surr: Tetrachloro-m-xylene	0.09167	0	0.09921	0	92.4	34-145	0			

MSD		Sample ID: MSD 1305450-23A			Units: mg/Kg		Analysis Date: 5/29/2013 01:00 PM			
Client ID:		Run ID: GC9_130529A			SeqNo: 617276		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.298	0.10	1.992	0	115	31-150	0			
Surr: Decachlorobiphenyl	0.09681	0	0.0996	0	97.2	22-156	0			
Surr: Tetrachloro-m-xylene	0.09801	0	0.0996	0	98.4	34-145	0			

The following samples were analyzed in this batch: 1305471-01B 1305471-02B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16797 Instrument ID: HG1 Method: SW7471A

MBLK	Sample ID: MBLK-16797-16797					Units: mg/Kg	Analysis Date: 5/28/2013 01:33 PM				
Client ID:	Run ID: HG1_130528A					SeqNo: 615857	Prep Date: 5/23/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury ND 0.30

LCS	Sample ID: LCS-16797-16797					Units: mg/Kg	Analysis Date: 5/28/2013 01:29 PM				
Client ID:	Run ID: HG1_130528A					SeqNo: 615855	Prep Date: 5/23/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 1.149 0.30 1.109 0 104 69-147 0

LCSD	Sample ID: LCSD-16797-16797					Units: mg/Kg	Analysis Date: 5/28/2013 01:31 PM				
Client ID:	Run ID: HG1_130528A					SeqNo: 615856	Prep Date: 5/23/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 1.168 0.29 1.09 0 107 69-147 1.149 1.64 20

MS	Sample ID: 1305449-01D MS					Units: mg/Kg	Analysis Date: 5/28/2013 01:37 PM				
Client ID:	Run ID: HG1_130528A					SeqNo: 615859	Prep Date: 5/23/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.8443 0.29 0.8007 0.03326 101 69-147 0

MSD	Sample ID: 1305449-01D MSD					Units: mg/Kg	Analysis Date: 5/28/2013 01:39 PM				
Client ID:	Run ID: HG1_130528A					SeqNo: 615860	Prep Date: 5/23/2013	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.8156 0.28 0.7824 0.03326 100 69-147 0.8443 3.46 20

The following samples were analyzed in this batch: 1305471-01B 1305471-02B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16800 Instrument ID: HG1 Method: SW7470A

MBLK	Sample ID: MBLK-16800-16800			Units: µg/L		Analysis Date: 5/28/2013 05:38 PM				
Client ID:	Run ID: HG1_130528C			SeqNo: 616102		Prep Date: 5/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.50

LCS	Sample ID: LCS-16800-16800			Units: µg/L		Analysis Date: 5/28/2013 05:34 PM				
Client ID:	Run ID: HG1_130528C			SeqNo: 616100		Prep Date: 5/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 4.98 0.50 5 0 99.6 80-120 0

LCSD	Sample ID: LCSD-16800-16800			Units: µg/L		Analysis Date: 5/28/2013 05:36 PM				
Client ID:	Run ID: HG1_130528C			SeqNo: 616101		Prep Date: 5/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 4.87 0.50 5 0 97.4 80-120 4.98 2.23 20

MS	Sample ID: 1305448-01C MS			Units: µg/L		Analysis Date: 5/28/2013 05:42 PM				
Client ID:	Run ID: HG1_130528C			SeqNo: 616104		Prep Date: 5/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 4.68 0.50 5 -0.04 94.4 75-125 0

MSD	Sample ID: 1305448-01C MSD			Units: µg/L		Analysis Date: 5/28/2013 05:44 PM				
Client ID:	Run ID: HG1_130528C			SeqNo: 616105		Prep Date: 5/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 4.89 0.50 5 -0.04 98.6 75-125 4.68 4.39 20

The following samples were analyzed in this batch:

Client: AECOM
Work Order: 1305471
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16775** Instrument ID: **ICP3** Method: **SW6010B**

MBLK		Sample ID: mblk-16775-16775		Units: mg/L		Analysis Date: 5/22/2013 05:51 PM				
Client ID:		Run ID: ICP3_130522D		SeqNo: 613266		Prep Date: 5/22/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.20								
Antimony	ND	0.030								
Arsenic	ND	0.010								
Barium	ND	0.10								
Beryllium	ND	0.00040								
Cadmium	ND	0.0050								
Calcium	ND	0.20								
Chromium	ND	0.020								
Cobalt	ND	0.025								
Copper	ND	0.025								
Iron	ND	0.20								
Lead	ND	0.015								
Magnesium	ND	0.20								
Manganese	ND	0.050								
Nickel	ND	0.050								
Potassium	ND	0.20								
Selenium	ND	0.030								
Silver	ND	0.010								
Sodium	ND	0.20								
Thallium	ND	0.0020								
Vanadium	ND	0.050								
Zinc	ND	0.050								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16775 Instrument ID: ICP3 Method: SW6010B

LCS		Sample ID: Ics-16775-16775			Units: mg/L		Analysis Date: 5/22/2013 06:10 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 613267		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.119	0.20	1.1	0	102	80-120	0			
Antimony	1.017	0.030	1.1	0	92.5	80-120	0			
Arsenic	1.042	0.010	1.1	0	94.8	80-120	0			
Barium	1.1	0.10	1.1	0	100	80-120	0			
Beryllium	0.9937	0.00040	1.1	0	90.3	80-120	0			
Cadmium	1.076	0.0050	1.1	0	97.8	80-120	0			
Calcium	1.018	0.20	1.1	0	92.5	80-120	0			
Chromium	1.063	0.020	1.1	0	96.6	80-120	0			
Cobalt	1.049	0.025	1.1	0	95.4	80-120	0			
Copper	1.037	0.025	1.1	0	94.2	80-120	0			
Iron	1.021	0.20	1.1	0	92.8	80-120	0			
Lead	1.093	0.015	1.1	0	99.4	80-120	0			
Magnesium	1.019	0.20	1.1	0	92.7	80-120	0			
Manganese	0.98	0.050	1.1	0	89.1	80-120	0			
Nickel	1.026	0.050	1.1	0	93.3	80-120	0			
Potassium	10.45	0.20	11	0	95	80-120	0			
Selenium	1.057	0.030	1.1	0	96.1	80-120	0			
Silver	1.072	0.010	1.1	0	97.5	80-120	0			
Sodium	1.055	0.20	1.1	0	95.9	80-120	0			
Thallium	1.01	0.0020	1.1	0	91.8	80-120	0			
Vanadium	0.97	0.050	1.1	0	88.2	80-120	0			
Zinc	1.028	0.050	1.1	0	93.5	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16775 Instrument ID: ICP3 Method: SW6010B

LCSD	Sample ID: Icsd-16775-16775			Units: mg/L		Analysis Date: 5/22/2013 06:16 PM				
Client ID:	Run ID: ICP3_130522D			SeqNo: 613268		Prep Date: 5/22/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.076	0.20	1.1	0	97.8	80-120	1.119	3.88	20	
Antimony	1.022	0.030	1.1	0	92.9	80-120	1.017	0.442	20	
Arsenic	1.06	0.010	1.1	0	96.4	80-120	1.042	1.66	20	
Barium	1.116	0.10	1.1	0	102	80-120	1.1	1.49	20	
Beryllium	0.9925	0.00040	1.1	0	90.2	80-120	0.9937	0.122	20	
Cadmium	1.078	0.0050	1.1	0	98	80-120	1.076	0.123	20	
Calcium	1.016	0.20	1.1	0	92.4	80-120	1.018	0.162	20	
Chromium	1.074	0.020	1.1	0	97.6	80-120	1.063	1.05	20	
Cobalt	1.053	0.025	1.1	0	95.7	80-120	1.049	0.304	20	
Copper	1.046	0.025	1.1	0	95.1	80-120	1.037	0.877	20	
Iron	1.029	0.20	1.1	0	93.5	80-120	1.021	0.751	20	
Lead	1.098	0.015	1.1	0	99.9	80-120	1.093	0.482	20	
Magnesium	1.016	0.20	1.1	0	92.4	80-120	1.019	0.313	20	
Manganese	0.9814	0.050	1.1	0	89.2	80-120	0.98	0.146	20	
Nickel	1.037	0.050	1.1	0	94.3	80-120	1.026	1.03	20	
Potassium	10.42	0.20	11	0	94.8	80-120	10.45	0.232	20	
Selenium	1.066	0.030	1.1	0	96.9	80-120	1.057	0.902	20	
Silver	1.082	0.010	1.1	0	98.4	80-120	1.072	0.919	20	
Sodium	1.095	0.20	1.1	0	99.6	80-120	1.055	3.74	20	
Thallium	1.023	0.0020	1.1	0	93	80-120	1.01	1.23	20	
Vanadium	0.9798	0.050	1.1	0	89.1	80-120	0.97	1	20	
Zinc	1.038	0.050	1.1	0	94.3	80-120	1.028	0.916	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16775 Instrument ID: ICP3 Method: SW6010B

MS		Sample ID: 1305472-01f ms			Units: mg/L		Analysis Date: 5/22/2013 06:35 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 613271		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.155	0.20	1.1	-0.008719	106	75-125	0			
Antimony	1.032	0.030	1.1	0.003116	93.5	75-125	0			
Arsenic	1.084	0.010	1.1	-0.0002893	98.6	75-125	0			
Barium	1.068	0.10	1.1	0.02482	94.8	75-125	0			
Beryllium	1.03	0.00040	1.1	-0.00005097	93.6	75-125	0			
Cadmium	1.059	0.0050	1.1	-0.00004726	96.3	75-125	0			
Calcium	498.7	0.20	1.1	503.8	-460	75-125	0			SO
Chromium	1.019	0.020	1.1	0.002548	92.4	75-125	0			
Cobalt	0.9535	0.025	1.1	-0.0001107	86.7	75-125	0			
Copper	1.001	0.025	1.1	0.0007931	90.9	75-125	0			
Iron	1.108	0.20	1.1	0.06811	94.5	75-125	0			
Lead	0.9811	0.015	1.1	0.004088	88.8	75-125	0			
Magnesium	58.67	0.20	1.1	58.49	17	75-125	0			SO
Manganese	1.022	0.050	1.1	0.0198	91.1	75-125	0			
Nickel	0.9337	0.050	1.1	0.0004301	84.8	75-125	0			
Potassium	13.97	0.20	11	2.805	102	75-125	0			
Selenium	1.093	0.030	1.1	0.001659	99.2	75-125	0			
Silver	1.055	0.010	1.1	-0.0008612	96	75-125	0			
Sodium	14.68	0.20	1.1	13.73	87	75-125	0			O
Thallium	0.8747	0.0020	1.1	0.0007917	79.4	75-125	0			
Vanadium	1.012	0.050	1.1	-0.004051	92.4	75-125	0			
Zinc	0.9898	0.050	1.1	0.03115	87.1	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16775 Instrument ID: ICP3 Method: SW6010B

MSD		Sample ID: 1305472-01f msd			Units: mg/L		Analysis Date: 5/22/2013 06:42 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 613272		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.179	0.20	1.1	-0.008719	108	75-125	1.155	2.07	20	
Antimony	1.024	0.030	1.1	0.003116	92.8	75-125	1.032	0.813	20	
Arsenic	1.076	0.010	1.1	-0.0002893	97.9	75-125	1.084	0.713	20	
Barium	1.064	0.10	1.1	0.02482	94.5	75-125	1.068	0.32	20	
Beryllium	1.016	0.00040	1.1	-0.00005097	92.3	75-125	1.03	1.39	20	
Cadmium	1.059	0.0050	1.1	-0.00004726	96.3	75-125	1.059	0.0104	20	
Calcium	500.9	0.20	1.1	503.8	-260	75-125	498.7	0.44	20	SO
Chromium	1.008	0.020	1.1	0.002548	91.4	75-125	1.019	1.11	20	
Cobalt	0.9495	0.025	1.1	-0.0001107	86.3	75-125	0.9535	0.416	20	
Copper	0.9876	0.025	1.1	0.0007931	89.7	75-125	1.001	1.36	20	
Iron	1.095	0.20	1.1	0.06811	93.3	75-125	1.108	1.18	20	
Lead	0.9744	0.015	1.1	0.004088	88.2	75-125	0.9811	0.686	20	
Magnesium	58.37	0.20	1.1	58.49	-11	75-125	58.67	0.526	20	SO
Manganese	0.9957	0.050	1.1	0.0198	88.7	75-125	1.022	2.56	20	
Nickel	0.9276	0.050	1.1	0.0004301	84.3	75-125	0.9337	0.65	20	
Potassium	14.1	0.20	11	2.805	103	75-125	13.97	0.94	20	
Selenium	1.087	0.030	1.1	0.001659	98.7	75-125	1.093	0.535	20	
Silver	1.056	0.010	1.1	-0.0008612	96	75-125	1.055	0.0625	20	
Sodium	14.76	0.20	1.1	13.73	94	75-125	14.68	0.523	20	O
Thallium	0.8667	0.0020	1.1	0.0007917	78.7	75-125	0.8747	0.922	20	
Vanadium	1.002	0.050	1.1	-0.004051	91.5	75-125	1.012	1.02	20	
Zinc	0.9878	0.050	1.1	0.03115	87	75-125	0.9898	0.2	20	

The following samples were analyzed in this batch:

1305471-03b

Client: AECOM
Work Order: 1305471
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16776** Instrument ID: **ICP3** Method: **SW6010B**

MBLK		Sample ID: mblk-16776-16776			Units: mg/Kg		Analysis Date: 5/22/2013 07:02 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 613301		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500								
Antimony	ND	3.0								
Arsenic	ND	5.0								
Barium	ND	10								
Beryllium	ND	0.50								
Cadmium	ND	1.0								
Calcium	ND	500								
Chromium	ND	2.0								
Cobalt	ND	5.0								
Copper	ND	5.0								
Iron	ND	100								
Lead	ND	5.0								
Magnesium	ND	100								
Manganese	ND	5.0								
Nickel	ND	5.0								
Potassium	ND	500								
Selenium	ND	3.0								
Silver	ND	1.0								
Sodium	ND	500								
Thallium	ND	3.0								
Vanadium	ND	5.0								
Zinc	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305471
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16776** Instrument ID: **ICP3** Method: **SW6010B**

LCS		Sample ID: ics-16776-16776			Units: mg/Kg		Analysis Date: 5/22/2013 07:08 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 613302		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500	100	0	99.3	80-120	0			
Antimony	96.52	3.0	100	0	96.5	80-120	0			
Arsenic	100.5	5.0	100	0	100	80-120	0			
Barium	105.1	10	100	0	105	80-120	0			
Beryllium	94.44	0.50	100	0	94.4	80-120	0			
Cadmium	102.4	1.0	100	0	102	80-120	0			
Calcium	ND	500	100	0	95.7	80-120	0			
Chromium	101.6	2.0	100	0	102	80-120	0			
Cobalt	99.94	5.0	100	0	99.9	80-120	0			
Copper	98.94	5.0	100	0	98.9	80-120	0			
Iron	ND	100	100	0	97	80-120	0			
Lead	104.8	5.0	100	0	105	80-120	0			
Magnesium	ND	100	100	0	95.2	80-120	0			
Manganese	94.33	5.0	100	0	94.3	80-120	0			
Nickel	98	5.0	100	0	98	80-120	0			
Potassium	977.8	500	1000	0	97.8	80-120	0			
Selenium	103.4	3.0	100	0	103	80-120	0			
Silver	101.8	1.0	100	0	102	80-120	0			
Sodium	ND	500	100	0	101	80-120	0			
Thallium	96.12	3.0	100	0	96.1	80-120	0			
Vanadium	92.11	5.0	100	0	92.1	80-120	0			
Zinc	98.85	5.0	100	0	98.8	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16776 Instrument ID: ICP3 Method: SW6010B

LCSD	Sample ID: Icsd-16776-16776			Units: mg/Kg		Analysis Date: 5/22/2013 07:27 PM				
Client ID:	Run ID: ICP3_130522D			SeqNo: 613303		Prep Date: 5/22/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500	100	0	104	80-120	99.32	0	20	
Antimony	95.59	3.0	100	0	95.6	80-120	96.52	0.968	20	
Arsenic	99.34	5.0	100	0	99.3	80-120	100.5	1.16	20	
Barium	103.9	10	100	0	104	80-120	105.1	1.15	20	
Beryllium	92.87	0.50	100	0	92.9	80-120	94.44	1.68	20	
Cadmium	101	1.0	100	0	101	80-120	102.4	1.38	20	
Calcium	ND	500	100	0	94.8	80-120	95.74	0	20	
Chromium	100.1	2.0	100	0	100	80-120	101.6	1.49	20	
Cobalt	98.31	5.0	100	0	98.3	80-120	99.94	1.64	20	
Copper	97.68	5.0	100	0	97.7	80-120	98.94	1.28	20	
Iron	ND	100	100	0	95.8	80-120	97.02	0	20	
Lead	103	5.0	100	0	103	80-120	104.8	1.73	20	
Magnesium	ND	100	100	0	94.2	80-120	95.21	0	20	
Manganese	91.44	5.0	100	0	91.4	80-120	94.33	3.11	20	
Nickel	96.91	5.0	100	0	96.9	80-120	98	1.12	20	
Potassium	981.2	500	1000	0	98.1	80-120	977.8	0.347	20	
Selenium	101.1	3.0	100	0	101	80-120	103.4	2.25	20	
Silver	101.8	1.0	100	0	102	80-120	101.8	0	20	
Sodium	ND	500	100	0	100	80-120	100.9	0	20	
Thallium	95.97	3.0	100	0	96	80-120	96.12	0.156	20	
Vanadium	91.24	5.0	100	0	91.2	80-120	92.11	0.949	20	
Zinc	97.55	5.0	100	0	97.6	80-120	98.85	1.32	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305471
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16776** Instrument ID: **ICP3** Method: **SW6010B**

MS		Sample ID: 1305472-02c ms			Units: mg/Kg		Analysis Date: 5/22/2013 07:51 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 613307		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	2815	490	98.83	2144	678	80-120	0			SO
Antimony	88.42	3.0	98.83	-0.04489	89.5	75-125	0			
Arsenic	97.53	4.9	98.83	4.111	94.5	75-125	0			
Barium	100.5	9.9	98.83	8.933	92.7	75-125	0			
Beryllium	91.68	0.49	98.83	0.142	92.6	75-125	0			
Cadmium	95.33	0.99	98.83	0.05029	96.4	75-125	0			
Calcium	21870	490	98.83	13960	8010	75-125	0			SO
Chromium	98.48	2.0	98.83	4.291	95.3	75-125	0			
Cobalt	88.02	4.9	98.83	2.601	86.4	75-125	0			
Copper	96.31	4.9	98.83	9.292	88	75-125	0			
Iron	6526	99	98.83	7696	-1180	75-125	0			SO
Lead	94.27	4.9	98.83	8.241	87	75-125	0			
Magnesium	9077	99	98.83	4301	4830	75-125	0			SO
Manganese	164.3	4.9	98.83	87.31	77.9	75-125	0			
Nickel	90.05	4.9	98.83	6.758	84.3	75-125	0			
Selenium	95.75	3.0	98.83	0.677	96.2	75-125	0			
Silver	94.88	0.99	98.83	-0.1358	96.1	75-125	0			
Sodium	ND	490	98.83	32.8	117	75-125	0			
Thallium	80.35	3.0	98.83	0.08992	81.2	75-125	0			
Vanadium	94.4	4.9	98.83	4.015	91.4	75-125	0			
Zinc	322.7	4.9	98.83	26.92	299	75-125	0			S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16776 Instrument ID: ICP3 Method: SW6010B

MSD		Sample ID: 1305472-02c msd				Units: mg/Kg		Analysis Date: 5/22/2013 07:57 PM		
Client ID:		Run ID: ICP3_130522D				SeqNo: 613308		Prep Date: 5/22/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	2711	500	99.07	2144	572	75-125	2815	3.77	20	SO
Antimony	88.89	3.0	99.07	-0.04489	89.8	75-125	88.42	0.539	20	
Arsenic	98.35	5.0	99.07	4.111	95.1	75-125	97.53	0.834	20	
Barium	117.3	9.9	99.07	8.933	109	75-125	100.5	15.4	20	
Beryllium	91.42	0.50	99.07	0.142	92.1	75-125	91.68	0.281	20	
Cadmium	95.46	0.99	99.07	0.05029	96.3	75-125	95.33	0.144	20	
Calcium	18890	500	99.07	13960	4980	75-125	21870	14.6	20	SO
Chromium	96.68	2.0	99.07	4.291	93.3	75-125	98.48	1.84	20	
Cobalt	89.49	5.0	99.07	2.601	87.7	75-125	88.02	1.65	20	
Copper	96.93	5.0	99.07	9.292	88.5	75-125	96.31	0.637	20	
Iron	7174	99	99.07	7696	-528	75-125	6526	9.45	20	SO
Lead	95.64	5.0	99.07	8.241	88.2	75-125	94.27	1.45	20	
Magnesium	5609	99	99.07	4301	1320	75-125	9077	47.2	20	SRO
Manganese	226.8	5.0	99.07	87.31	141	75-125	164.3	32	20	SR
Nickel	91.96	5.0	99.07	6.758	86	75-125	90.05	2.1	20	
Potassium	1322	500	99.07	288.6	104	75-125	1313	0.688	20	
Selenium	96.09	3.0	99.07	0.677	96.3	75-125	95.75	0.351	20	
Silver	94.87	0.99	99.07	-0.1358	95.9	75-125	94.88	0.0128	20	
Sodium	ND	500	99.07	32.8	108	75-125	148.5	0	20	
Thallium	81.97	3.0	99.07	0.08992	82.6	75-125	80.35	1.99	20	
Vanadium	94.14	5.0	99.07	4.015	91	75-125	94.4	0.277	20	
Zinc	115.6	5.0	99.07	26.92	89.5	75-125	322.7	94.5	20	R

The following samples were analyzed in this batch:

1305471-01b	1305471-02b
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99668a** Instrument ID: **SUB** Method: **SW8081A**

MBLK		Sample ID: MBLK-R99668a			Units: µg/Kg		Analysis Date: 5/31/2013 01:34 PM			
Client ID:		Run ID: SUB_130610A			SeqNo: 624003		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	1.6								
4,4'-DDE	ND	1.6								
4,4'-DDT	ND	1.6								
Aldrin	ND	1.6								
alpha-BHC	ND	1.6								
alpha-Chlordane	ND	1.6								
beta-BHC	ND	1.6								
delta-BHC	ND	1.6								
Dieldrin	ND	1.6								
Endosulfan I	ND	1.6								
Endosulfan II	ND	1.6								
Endosulfan sulfate	ND	1.6								
Endrin	ND	1.6								
Endrin aldehyde	ND	1.6								
Endrin ketone	ND	1.6								
gamma-BHC (Lindane)	ND	1.6								
gamma-Chlordane	ND	1.6								
Heptachlor	ND	1.6								
Heptachlor epoxide	ND	1.6								
Methoxychlor	ND	1.6								
Toxaphene	ND	33								
<i>Surr: Decachlorobiphenyl</i>	85.1	0	100	0	85.1	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	55.2	0	100	0	55.2	39-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99668a** Instrument ID: **SUB** Method: **SW8081A**

LCS		Sample ID: lcs-R99668a			Units: µg/Kg		Analysis Date: 5/31/2013 02:02 PM			
Client ID:		Run ID: SUB_130610A			SeqNo: 624005		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	12.6	0	16.7	0	75.4	60-110	0			
4,4'-DDE	12.8	0	16.7	0	76.6	55-110	0			
4,4'-DDT	14	0	16.7	0	83.8	60-115	0			
Aldrin	12.5	0	16.7	0	74.9	50-100	0			
alpha-BHC	11.4	0	16.7	0	68.3	50-100	0			
alpha-Chlordane	13.7	0	16.7	0	82	55-105	0			
beta-BHC	12.7	0	16.7	0	76	50-100	0			
delta-BHC	12	0	16.7	0	71.9	50-110	0			
Dieldrin	12.7	0	16.7	0	76	60-110	0			
Endosulfan I	10.1	0	16.7	0	60.5	40-100	0			
Endosulfan II	10.5	0	16.7	0	62.9	40-100	0			
Endosulfan sulfate	14.9	0	16.7	0	89.2	45-115	0			
Endrin	11.9	0	16.7	0	71.3	55-100	0			
Endrin aldehyde	11.7	0	16.7	0	70.1	45-110	0			
Endrin ketone	13.4	0	16.7	0	80.2	55-115	0			
gamma-BHC (Lindane)	13.5	0	16.7	0	80.8	50-100	0			
gamma-Chlordane	11.5	0	16.7	0	68.9	50-110	0			
Heptachlor	13.7	0	16.7	0	82	50-105	0			
Heptachlor epoxide	13.8	0	16.7	0	82.6	55-105	0			
Methoxychlor	15.3	0	16.7	0	91.6	60-125	0			
<i>Surr: Decachlorobiphenyl</i>	94.6	0	100	0	94.6	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	64.3	0	100	0	64.3	39-130	0			

LCS		Sample ID: LCS-R99668a			Units: µg/Kg		Analysis Date: 5/31/2013 02:58 PM			
Client ID:		Run ID: SUB_130610A			SeqNo: 624664		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Toxaphene	47.3	0	66.7	0	70.9	25-138	0			
<i>Surr: Decachlorobiphenyl</i>	76	0	100	0	76	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	48	0	100	0	48	39-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99668a** Instrument ID: **SUB** Method: **SW8081A**

LCSD		Sample ID: LCSD-R99668a			Units: µg/Kg		Analysis Date: 5/31/2013 02:30 PM			
Client ID:		Run ID: SUB_130610A			SeqNo: 624263		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	13	0	16.7	0	77.8	60-110	12.6	3.12	30	
4,4'-DDE	12.8	0	16.7	0	76.6	55-110	12.8	0	30	
4,4'-DDT	14.9	0	16.7	0	89.2	60-115	14	6.23	30	
Aldrin	11.6	0	16.7	0	69.5	50-100	12.5	7.47	30	
alpha-BHC	11.8	0	16.7	0	70.7	50-100	11.4	3.45	30	
alpha-Chlordane	12.5	0	16.7	0	74.9	55-105	13.7	9.16	30	
beta-BHC	12.3	0	16.7	0	73.7	50-100	12.7	3.2	30	
delta-BHC	12.4	0	16.7	0	74.3	50-110	12	3.28	30	
Dieldrin	12.6	0	16.7	0	75.4	60-110	12.7	0.791	30	
Endosulfan I	9.78	0	16.7	0	58.6	40-100	10.1	3.22	30	
Endosulfan II	10.5	0	16.7	0	62.9	40-100	10.5	0	30	
Endosulfan sulfate	12.4	0	16.7	0	74.3	45-115	14.9	18.3	30	
Endrin	12.9	0	16.7	0	77.2	55-100	11.9	8.06	30	
Endrin aldehyde	11.4	0	16.7	0	68.3	45-110	11.7	2.6	30	
Endrin ketone	12.9	0	16.7	0	77.2	55-115	13.4	3.8	30	
gamma-BHC (Lindane)	14.2	0	16.7	0	85	50-100	13.5	5.05	30	
gamma-Chlordane	12.2	0	16.7	0	73.1	50-110	11.5	5.91	30	
Heptachlor	12.2	0	16.7	0	73.1	50-105	13.7	11.6	30	
Heptachlor epoxide	13.3	0	16.7	0	79.6	55-105	13.8	3.69	30	
Methoxychlor	19.9	0	16.7	0	119	60-125	15.3	26.1	30	
<i>Surr: Decachlorobiphenyl</i>	85.5	0	100	0	85.5	33-143	94.6	10.1		
<i>Surr: Tetrachloro-m-xylene</i>	60.5	0	100	0	60.5	39-130	64.3	6.09		

The following samples were analyzed in this batch:

1305471-01D	1305471-02D
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99668b** Instrument ID: **SUB** Method: **SW8151**

MBLK		Sample ID: BLANK-R99668b			Units: µg/Kg		Analysis Date: 6/3/2013 05:22 PM			
Client ID:		Run ID: SUB_130610A			SeqNo: 624162		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	ND	4.0								
2,4,5-TP (Silvex)	ND	3.0								
2,4-D	ND	40								
2,4-DB	ND	40								
Dalapon	ND	100								
Dicamba	ND	4.0								
Dichlorprop	ND	40								
Dinoseb	ND	20								
MCPA	ND	4,000								
MCPD	ND	4,000								
Pentachlorophenol	ND	4.0								
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	91.8	0	100	0	91.8	25-110	0			

LCS		Sample ID: LCS-R99668b			Units: µg/Kg		Analysis Date: 6/3/2013 05:47 PM			
Client ID:		Run ID: SUB_130610A			SeqNo: 624164		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	7.45	4.0	10	0	74.5	25-120	0			
2,4,5-TP (Silvex)	6.88	3.0	10	0	68.8	30-125	0			
2,4-D	56.8	40	100	0	56.8	15-120	0			
2,4-DB	715	40	100	0	715	20-125	0			S
Dalapon	135	100	250	0	54	10-105	0			
Dicamba	9.67	4.0	10	0	96.7	45-150	0			
Dichlorprop	74.8	2.0	100	0	74.8	20-130	0			
Dinoseb	33.7	20	50	0	67.4	25-125	0			
MCPA	5960	4,000	10000	0	59.6	10-120	0			
MCPD	5980	4,000	10000	0	59.8	10-130	0			
Pentachlorophenol	5.52	4.0	10	0	55.2	30-110	0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	96.4	0	100	0	96.4	25-110	0			

The following samples were analyzed in this batch:

1305471-01C	1305471-02C
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99668c** Instrument ID: **SUB** Method: **SW8081A**

MBLK		Sample ID: BLANK-R99668c			Units: µg/L		Analysis Date: 6/3/2013 06:30 PM			
Client ID:		Run ID: SUB_130610A			SeqNo: 624255		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	0.050								
4,4'-DDE	ND	0.050								
4,4'-DDT	ND	0.050								
Aldrin	ND	0.050								
alpha Chlordane	ND	0.050								
alpha-BHC	ND	0.050								
beta-BHC	ND	0.050								
delta-BHC	ND	0.050								
Dieldrin	ND	0.050								
Endosulfan I	ND	0.050								
Endosulfan II	ND	0.050								
Endosulfan sulfate	ND	0.050								
Endrin	ND	0.050								
Endrin aldehyde	ND	0.050								
Endrin ketone	ND	0.050								
gamma Chlordane	ND	0.050								
gamma-BHC (Lindane)	ND	0.050								
Heptachlor	ND	0.050								
Heptachlor epoxide	ND	0.050								
Methoxychlor	ND	0.050								
Toxaphene	ND	1.0								
<i>Surr: Decachlorobiphenyl</i>	61.2	0	100	0	61.2	25-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	63	0	100	0	63	20-180	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99668c** Instrument ID: **SUB** Method: **SW8081A**

LCS		Sample ID: LCS-R99668c			Units: µg/L		Analysis Date: 6/3/2013 07:54 PM			
Client ID:		Run ID: SUB_130610A			SeqNo: 624257		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.353	0.050	0.5	0	70.6	40-135	0			
4,4'-DDE	0.336	0.050	0.5	0	67.2	40-120	0			
4,4'-DDT	0.377	0.050	0.5	0	75.4	40-125	0			
Aldrin	0.321	0.050	0.5	0	64.2	30-110	0			
alpha Chlordane	0.375	0.050	0.5	0	75	40-120	0			
alpha-BHC	0.325	0.050	0.5	0	65	30-120	0			
beta-BHC	0.36	0.050	0.5	0	72	30-115	0			
delta-BHC	0.352	0.050	0.5	0	70.4	35-130	0			
Dieldrin	0.368	0.050	0.5	0	73.6	40-125	0			
Endosulfan I	0.284	0.050	0.5	0	56.8	10-110	0			
Endosulfan II	0.309	0.050	0.5	0	61.8	30-110	0			
Endosulfan sulfate	0.47	0.050	0.5	0	94	35-125	0			
Endrin	0.345	0.050	0.5	0	69	35-120	0			
Endrin aldehyde	0.35	0.050	0.5	0	70	30-120	0			
Endrin ketone	0.409	0.050	0.5	0	81.8	40-125	0			
gamma Chlordane	0.372	0.050	0.5	0	74.4	40-120	0			
gamma-BHC (Lindane)	0.324	0.050	0.5	0	64.8	30-120	0			
Heptachlor	0.358	0.050	0.5	0	71.6	35-115	0			
Heptachlor epoxide	0.389	0.050	0.5	0	77.8	35-115	0			
Methoxychlor	0.442	0.050	0.5	0	88.4	30-150	0			
<i>Surr: Decachlorobiphenyl</i>	22.4	0	100	0	22.4	20-180	0			
<i>Surr: Tetrachloro-m-xylene</i>	53.1	0	100	0	53.1	25-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99668c** Instrument ID: **SUB** Method: **SW8081A**

LCSD		Sample ID: LCSD-R99668c				Units: µg/L		Analysis Date: 6/3/2013 07:26 PM			
Client ID:		Run ID: SUB_130610A				SeqNo: 624269		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
4,4'-DDD	0.317	0	0.5	0	63.4	40-135	0.353	10.7	30		
4,4'-DDE	0.313	0	0.5	0	62.6	40-120	0.336	7.09	30		
4,4'-DDT	0.344	0	0.5	0	68.8	40-125	0.377	9.15	30		
Aldrin	0.293	0	0.5	0	58.6	30-110	0.321	9.12	30		
alpha Chlordane	0.341	0	0.5	0	68.2	40-120	0.375	9.5	30		
alpha-BHC	0.287	0	0.5	0	57.4	30-120	0.325	12.4	30		
beta-BHC	0.316	0	0.5	0	63.2	30-115	0.36	13	30		
delta-BHC	0.306	0	0.5	0	61.2	35-130	0.352	14	30		
Dieldrin	0.33	0	0.5	0	66	40-125	0.368	10.9	30		
Endosulfan I	0.254	0	0.5	0	50.8	10-110	0.284	11.2	30		
Endosulfan II	0.269	0	0.5	0	53.8	30-110	0.309	13.8	30		
Endosulfan sulfate	0.388	0	0.5	0	77.6	35-125	0.47	19.1	30		
Endrin	0.307	0	0.5	0	61.4	35-120	0.345	11.7	30		
Endrin aldehyde	0.275	0	0.5	0	55	30-120	0.35	24	30		
Endrin ketone	0.35	0	0.5	0	70	40-125	0.409	15.5	30		
gamma Chlordane	0.343	0	0.5	0	68.6	40-120	0.372	8.11	30		
gamma-BHC (Lindane)	0.288	0	0.5	0	57.6	30-120	0.324	11.8	30		
Heptachlor	0.324	0	0.5	0	64.8	35-115	0.358	9.97	30		
Heptachlor epoxide	0.349	0	0.5	0	69.8	35-115	0.389	10.8	30		
Methoxychlor	0.395	0	0.5	0	79	30-150	0.442	11.2	30		
<i>Surr: Decachlorobiphenyl</i>	32.1	0	100	0	32.1	20-180	22.4	35.6			
<i>Surr: Tetrachloro-m-xylene</i>	49.5	0	100	0	49.5	25-140	53.1	7.02			

The following samples were analyzed in this batch:

1305471-03E

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99668d** Instrument ID: **SUB** Method: **SW8151**

MBLK		Sample ID: BLANK-R99668d			Units: µg/L		Analysis Date: 5/29/2013 04:33 PM			
Client ID:		Run ID: SUB_130610A			SeqNo: 624270		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	ND	0.20								
2,4,5-TP (Silvex)	ND	0.20								
2,4-D	ND	2.0								
2,4-DB	ND	2.0								
Dalapon	ND	5.0								
Dicamba	ND	0.20								
Dichlorprop	ND	2.0								
Dinoseb	ND	1.0								
MCPA	ND	250								
MCPP	ND	250								
Pentachlorophenol	ND	0.20								
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	101	0	100	0	101	20-144	0			

LCS		Sample ID: LCS-R99668d			Units: µg/L		Analysis Date: 5/29/2013 04:59 PM			
Client ID:		Run ID: SUB_130610A			SeqNo: 624271		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	0.329	0.20	0.5	0	65.8	30-110	0			
2,4,5-TP (Silvex)	0.355	0.20	0.5	0	71	30-110	0			
2,4-D	3.08	2.0	5	0	61.6	30-100	0			
2,4-DB	2.55	2.0	5	0	51	30-110	0			
Dalapon	ND	5.0	12.5	0	32.7	10-100	0			
Dicamba	0.476	0.20	0.5	0	95.2	30-135	0			
Dichlorprop	4.2	2.0	5	0	84	25-115	0			
Dinoseb	1.72	1.0	2.5	0	68.8	30-105	0			
MCPA	320	250	500	0	64	25-100	0			
MCPP	346	250	500	0	69.2	30-120	0			
Pentachlorophenol	0.329	0.20	0.5	0	65.8	30-105	0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	107	0	100	0	107	20-144	0			

The following samples were analyzed in this batch:

1305471-03F

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305471
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16805** Instrument ID: **SVMS3** Method: **SW8270C**

MBLK		Sample ID: mblk-16805-16805			Units: µg/L		Analysis Date: 5/28/2013 10:10 PM			
Client ID:		Run ID: SVMS3_130528A			SeqNo: 617306		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.10								
Acenaphthene	ND	0.10								
Acenaphthylene	ND	0.10								
Anthracene	ND	0.10								
Benzo(a)anthracene	ND	0.10								
Benzo(a)pyrene	ND	0.10								
Benzo(b)fluoranthene	ND	0.11								
Benzo(g,h,i)perylene	ND	0.10								
Benzo(k)fluoranthene	ND	0.16								
Carbazole	ND	10								
Chrysene	ND	0.10								
Dibenzo(a,h)anthracene	ND	0.10								
Dibenzofuran	ND	10								
Fluoranthene	ND	0.10								
Fluorene	ND	0.10								
Indeno(1,2,3-cd)pyrene	ND	0.10								
Naphthalene	ND	0.10								
Phenanthrene	ND	0.10								
Pyrene	ND	0.10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305471
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16805** Instrument ID: **SVMS3** Method: **SW8270C**

MBLK		Sample ID: mblk-16805-16805			Units: µg/L		Analysis Date: 5/28/2013 11:15 PM			
Client ID:		Run ID: SVMS2_130528A			SeqNo: 617374		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	10								
1,2,4-Trichlorobenzene	ND	10								
1,2-Dichlorobenzene	ND	10								
1,3-Dichlorobenzene	ND	10								
1,3-Dinitrobenzene	ND	10								
1,4-Dichlorobenzene	ND	10								
1-Naphthylamine	ND	10								
2,3,4,6-Tetrachlorophenol	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
2,4-Dichlorophenol	ND	10								
2,4-Dimethylphenol	ND	10								
2,4-Dinitrophenol	ND	10								
2,4-Dinitrotoluene	ND	10								
2,6-Dichlorophenol	ND	10								
2,6-Dinitrotoluene	ND	10								
2-Acetylaminofluorene	ND	10								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	10								
2-Methylphenol	ND	10								
2-Naphthylamine	ND	20								
2-Nitroaniline	ND	10								
2-Nitrophenol	ND	10								
2-Picoline	ND	20								
3&4-Methylphenol	ND	10								
3,3'-Dichlorobenzidine	ND	10								
3-Methylcholanthrene	ND	20								
3-Nitroaniline	ND	20								
4,6-Dinitro-2-methylphenol	ND	20								
4-Aminobiphenyl	ND	10								
4-Bromophenyl phenyl ether	ND	20								
4-Chloro-3-methylphenol	ND	20								
4-Chloroaniline	ND	10								
4-Chlorophenyl phenyl ether	ND	20								
4-Nitroaniline	ND	20								
4-Nitrophenol	ND	10								
4-Nitroquinoline 1-oxide	ND	10								
5-Nitro-o-toluidine	ND	10								
7,12-Dimethylbenz(a)anthracene	ND	10								
Acetophenone	ND	10								
Aniline	ND	10								
Azobenzene	ND	10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805	Instrument ID: SVMS3	Method: SW8270C						
Benzidine	ND	10						
Benzyl alcohol	ND	10						
Bis(2-chloroethoxy)methane	ND	10						
Bis(2-chloroethyl)ether	ND	10						
Bis(2-chloroisopropyl)ether	ND	10						
Bis(2-ethylhexyl)phthalate	ND	10						
Butyl benzyl phthalate	ND	10						
Diethyl phthalate	ND	10						
Dimethyl phthalate	ND	10						
Di-n-butyl phthalate	ND	10						
Di-n-octyl phthalate	ND	10						
Dinoseb	ND	20						
Diphenylamine	ND	10						
Ethyl methanesulfonate	ND	10						
Hexachlorobenzene	ND	10						
Hexachlorobutadiene	ND	10						
Hexachlorocyclopentadiene	ND	10						
Hexachloroethane	ND	10						
Isophorone	ND	10						
Isosafrole	ND	10						
Methapyrilene	ND	10						
Methyl methanesulfonate	ND	10						
Nitrobenzene	ND	10						
N-Nitrosodiethylamine	ND	10						
N-Nitrosodimethylamine	ND	10						
N-Nitroso-di-n-butylamine	ND	10						
N-Nitrosodi-n-propylamine	ND	10						
N-Nitrosomethylethylamine	ND	10						
N-Nitrosomorpholine	ND	10						
N-Nitrosopiperidine	ND	10						
N-Nitrosopyrrolidine	ND	10						
o-Toluidine	ND	10						
p-Dimethylaminoazobenzene	ND	10						
Pentachlorobenzene	ND	10						
Pentachloroethane	ND	10						
Pentachloronitrobenzene	ND	20						
Pentachlorophenol	ND	20						
Phenacetin	ND	20						
Phenol	ND	10						
Pyridine	ND	10						
Safrole	ND	10						
<i>Surr: 2,4,6-Tribromophenol</i>	73.57	0	100	0	73.6	35-120	0	
<i>Surr: 2-Fluorobiphenyl</i>	30.74	0	50	0	61.5	38-105	0	
<i>Surr: 2-Fluorophenol</i>	46.59	0	100	0	46.6	12-89	0	
<i>Surr: 4-Terphenyl-d14</i>	40.18	0	50	0	80.4	42-125	0	
<i>Surr: Nitrobenzene-d5</i>	34	0	50	0	68	28-120	0	
<i>Surr: Phenol-d5</i>	43.93	0	100	0	43.9	10-62	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805 Instrument ID: SVMS3 Method: SW8270C

LCS		Sample ID: Ics-16805-16805			Units: µg/L		Analysis Date: 5/28/2013 11:51 PM			
Client ID:		Run ID: SVMS2_130528A			SeqNo: 617375		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	33.02	10	50	0	66	49.8-102	0			
1,4-Dichlorobenzene	37.78	10	50	0	75.6	44-92.8	0			
2,4-Dinitrotoluene	48.45	10	50	0	96.9	61.3-108	0			
2-Chlorophenol	43.64	10	50	0	87.3	33.3-89.9	0			
4-Chloro-3-methylphenol	45.03	20	50	0	90.1	39.3-96.6	0			
4-Nitrophenol	38.92	10	50	0	77.8	17.3-80.3	0			
Acenaphthene	39.27	0.10	50	0	78.5	40.1-123	0			
Acenaphthylene	39.16	0.10	50	0	78.3	59.3-126	0			
Anthracene	41.25	0.10	50	0	82.5	62.1-110	0			
Benzo(a)anthracene	41.54	0.10	50	0	83.1	62.3-118	0			
Benzo(a)pyrene	45.53	0.10	50	0	91.1	69.6-111	0			
Benzo(b)fluoranthene	41.92	0.11	50	0	83.8	60.1-94.5	0			
Benzo(g,h,i)perylene	40.81	0.10	50	0	81.6	66.8-138	0			
Benzo(k)fluoranthene	45.76	0.16	50	0	91.5	68.8-136	0			
Carbazole	54.36	10	50	0	109	70.8-115	0			
Chrysene	41.61	0.10	50	0	83.2	63.1-116	0			
Dibenzo(a,h)anthracene	44.21	0.10	50	0	88.4	47.1-168	0			
Fluoranthene	44	0.10	50	0	88	58.1-117	0			
Fluorene	40.68	0.10	50	0	81.4	59.5-120	0			
Indeno(1,2,3-cd)pyrene	45.14	0.10	50	0	90.3	56.3-141	0			
Naphthalene	34.42	0.10	50	0	68.8	46.6-104	0			
N-Nitrosodi-n-propylamine	58.06	10	50	0	116	54.8-121	0			
Pentachlorophenol	51.41	20	50	0	103	34.1-130	0			
Phenanthrene	42.02	0.10	50	0	84	63-118	0			
Phenol	28.08	10	50	0	56.2	17.5-68	0			
Pyrene	41.51	0.10	50	0	83	42-125	0			
Surr: 2,4,6-Tribromophenol	71.21	0	100	0	71.2	35-120	0			
Surr: 2-Fluorobiphenyl	33.67	0	50	0	67.3	38-105	0			
Surr: 2-Fluorophenol	73.28	0	100	0	73.3	12-89	0			
Surr: 4-Terphenyl-d14	39.17	0	50	0	78.3	42-125	0			
Surr: Nitrobenzene-d5	48.72	0	50	0	97.4	28-120	0			
Surr: Phenol-d5	51.65	0	100	0	51.6	10-62	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805 Instrument ID: SVMS3 Method: SW8270C

MS		Sample ID: 1305506-01c ms				Units: µg/L		Analysis Date: 5/29/2013 12:27 PM		
Client ID:		Run ID: SVMS2_130528A				SeqNo: 617385		Prep Date: 5/23/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	33.86	10	50	0	67.7		0			
2,4-Dinitrotoluene	48.79	10	50	0	97.6		0			
2-Chlorophenol	54.91	10	50	0	110		0			
4-Chloro-3-methylphenol	52.94	20	50	0	106		0			
4-Nitrophenol	23.45	10	50	0	46.9		0			
Acenaphthene	41.59	0.10	50	0	83.2		0			
Acenaphthylene	41.52	0.10	50	0	83		0			
Anthracene	41.1	0.10	50	0	82.2		0			
Benzo(a)anthracene	41.74	0.10	50	0	83.5		0			
Benzo(a)pyrene	45.79	0.10	50	0	91.6		0			
Benzo(b)fluoranthene	41.42	0.11	50	0	82.8		0			
Benzo(g,h,i)perylene	41.68	0.10	50	0	83.4		0			
Benzo(k)fluoranthene	45.93	0.16	50	0	91.9		0			
Carbazole	52.43	10	50	0	105		0			
Chrysene	41.53	0.10	50	0	83.1		0			
Dibenzo(a,h)anthracene	43.96	0.10	50	0	87.9		0			
Dibenzofuran	46.46	10	50	0	92.9		0			
Fluoranthene	42.91	0.10	50	0	85.8		0			
Fluorene	41.98	0.10	50	0	84		0			
Indeno(1,2,3-cd)pyrene	44.13	0.10	50	0	88.3		0			
Naphthalene	40.98	0.10	50	0	82		0			
N-Nitrosodi-n-propylamine	55.58	10	50	0	111		0			
Pentachlorophenol	52.03	20	50	0	104		0			
Phenol	28.99	10	50	0	58		0			
Pyrene	40.87	0.10	50	0	81.7		0			
<i>Surr: 2,4,6-Tribromophenol</i>	73.67	0	100	0	73.7	35-120	0			
<i>Surr: 2-Fluorobiphenyl</i>	37.14	0	50	0	74.3	38-105	0			
<i>Surr: 2-Fluorophenol</i>	74.17	0	100	0	74.2	12-89	0			
<i>Surr: 4-Terphenyl-d14</i>	39.2	0	50	0	78.4	42-125	0			
<i>Surr: Nitrobenzene-d5</i>	58.26	0	50	0	117	28-120	0			
<i>Surr: Phenol-d5</i>	47.67	0	100	0	47.7	10-62	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805 Instrument ID: SVMS3 Method: SW8270C

MSD		Sample ID: 1305506-01c msd				Units: µg/L		Analysis Date: 5/29/2013 01:03 AM		
Client ID:		Run ID: SVMS2_130528A				SeqNo: 617376		Prep Date: 5/23/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	38.57	10	50	0	77.1		41.34	6.93		
1,4-Dichlorobenzene	46.29	10	50	0	92.6		33.86	31		
2,4-Dinitrotoluene	47.19	10	50	0	94.4		48.79	3.33		
2-Chlorophenol	66.34	10	50	0	133		54.91	18.9		
4-Chloro-3-methylphenol	50.78	20	50	0	102		52.94	4.17		
4-Nitrophenol	22.65	10	50	0	45.3		23.45	3.47		
Acenaphthene	40.65	0.10	50	0	81.3		41.59	2.29		
Acenaphthylene	40.01	0.10	50	0	80		41.52	3.7		
Anthracene	39.73	0.10	50	0	79.5		41.1	3.39		
Benzo(a)anthracene	51.63	0.10	50	0	103		41.74	21.2		
Benzo(a)pyrene	53.55	0.10	50	0	107		45.79	15.6		
Benzo(b)fluoranthene	43.41	0.11	50	0	86.8		41.42	4.69		
Benzo(g,h,i)perylene	41.13	0.10	50	0	82.3		41.68	1.33		
Benzo(k)fluoranthene	50.78	0.16	50	0	102		45.93	10		
Carbazole	46.99	10	50	0	94		52.43	10.9		
Chrysene	52.36	0.10	50	0	105		41.53	23.1		
Dibenzo(a,h)anthracene	47.18	0.10	50	0	94.4		43.96	7.07		
Dibenzofuran	44.84	10	50	0	89.7		46.46	3.55		
Fluoranthene	40.28	0.10	50	0	80.6		42.91	6.32		
Fluorene	40.66	0.10	50	0	81.3		41.98	3.19		
Indeno(1,2,3-cd)pyrene	43.13	0.10	50	0	86.3		44.13	2.29		
Naphthalene	38.31	0.10	50	0	76.6		40.98	6.73		
N-Nitrosodi-n-propylamine	50.39	10	50	0	101		55.58	9.8		
Pentachlorophenol	49.51	20	50	0	99		52.03	4.96		
Phenol	27.35	10	50	0	54.7		28.99	5.82		
Pyrene	35.64	0.10	50	0	71.3		40.87	13.7		
Surr: 2,4,6-Tribromophenol	68.78	0	100	0	68.8	35-120	73.67	6.87		
Surr: 2-Fluorobiphenyl	35.94	0	50	0	71.9	38-105	37.14	3.28		
Surr: 2-Fluorophenol	63.44	0	100	0	63.4	12-89	74.17	15.6		
Surr: 4-Terphenyl-d14	36.65	0	50	0	73.3	42-125	39.2	6.72		
Surr: Nitrobenzene-d5	50.55	0	50	0	101	28-120	58.26	14.2		
Surr: Phenol-d5	55.24	0	100	0	55.2	10-62	47.67	14.7		

The following samples were analyzed in this batch:

1305471-03c

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID: SVMS2 Method: SW8270C

MBLK		Sample ID: MBLK-16817-16817			Units: µg/Kg		Analysis Date: 5/24/2013 07:10 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615805		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	330								
1,2,4-Trichlorobenzene	ND	330								
1,2-Dichlorobenzene	ND	330								
1,3-Dichlorobenzene	ND	330								
1,3-Dinitrobenzene	ND	330								
1,4-Dichlorobenzene	ND	330								
1-Methylnaphthalene	ND	330								
1-Naphthylamine	ND	330								
2,3,4,6-Tetrachlorophenol	ND	330								
2,4,5-Trichlorophenol	ND	330								
2,4,6-Trichlorophenol	ND	330								
2,4-Dichlorophenol	ND	330								
2,4-Dimethylphenol	ND	330								
2,4-Dinitrophenol	ND	1,600								
2,4-Dinitrotoluene	ND	330								
2,6-Dichlorophenol	ND	330								
2,6-Dinitrotoluene	ND	330								
2-Acetylaminofluorene	ND	330								
2-Chloronaphthalene	ND	330								
2-Chlorophenol	ND	330								
2-Methylnaphthalene	ND	330								
2-Methylphenol	ND	330								
2-Naphthylamine	ND	330								
2-Nitroaniline	ND	1,600								
2-Nitrophenol	ND	330								
2-Picoline	ND	330								
3&4-Methylphenol	ND	330								
3,3'-Dichlorobenzidine	ND	660								
3-Methylcholanthrene	ND	330								
3-Nitroaniline	ND	1,600								
4,6-Dinitro-2-methylphenol	ND	1,600								
4-Aminobiphenyl	ND	660								
4-Bromophenyl phenyl ether	ND	330								
4-Chloro-3-methylphenol	ND	660								
4-Chloroaniline	ND	660								
4-Chlorophenyl phenyl ether	ND	330								
4-Nitroaniline	ND	660								
4-Nitrophenol	ND	1,600								
4-Nitroquinoline 1-oxide	ND	330								
5-Nitro-o-toluidine	ND	330								
7,12-Dimethylbenz(a)anthracene	ND	330								
Acenaphthene	ND	330								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305471
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817	Instrument ID: SVMS2	Method: SW8270C
Acenaphthylene	ND	330
Acetophenone	ND	330
Aniline	ND	330
Anthracene	ND	330
Azobenzene	ND	330
Benzidine	ND	330
Benzo(a)anthracene	ND	330
Benzo(a)pyrene	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(g,h,i)perylene	ND	330
Benzo(k)fluoranthene	ND	330
Benzyl alcohol	ND	660
Bis(2-chloroethoxy)methane	ND	330
Bis(2-chloroethyl)ether	ND	330
Bis(2-chloroisopropyl)ether	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Butyl benzyl phthalate	ND	330
Carbazole	ND	330
Chrysene	ND	330
Dibenzo(a,h)anthracene	ND	330
Dibenzofuran	ND	330
Diethyl phthalate	ND	330
Dimethyl phthalate	ND	330
Di-n-butyl phthalate	ND	330
Di-n-octyl phthalate	ND	330
Dinoseb	ND	330
Diphenylamine	ND	330
Ethyl methanesulfonate	ND	330
Fluoranthene	ND	330
Fluorene	ND	330
Hexachlorobenzene	ND	330
Hexachlorobutadiene	ND	330
Hexachlorocyclopentadiene	ND	330
Hexachloroethane	ND	330
Indeno(1,2,3-cd)pyrene	ND	150
Isophorone	ND	330
Isosafrole	ND	330
Methapyrilene	ND	330
Methyl methanesulfonate	ND	330
Naphthalene	ND	330
Nitrobenzene	ND	330
N-Nitrosodiethylamine	ND	330
N-Nitrosodimethylamine	ND	330
N-Nitroso-di-n-butylamine	ND	330
N-Nitrosodi-n-propylamine	ND	330
N-Nitrosomethylethylamine	ND	330
N-Nitrosomorpholine	ND	330
N-Nitrosopiperidine	ND	330

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305471
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817	Instrument ID: SVMS2	Method: SW8270C					
N-Nitrosopyrrolidine	ND	330					
o-Toluidine	ND	330					
p-Dimethylaminoazobenzene	ND	330					
Pentachlorobenzene	ND	330					
Pentachloroethane	ND	330					
Pentachloronitrobenzene	ND	660					
Pentachlorophenol	ND	1,600					
Phenacetin	ND	660					
Phenanthrene	ND	330					
Phenol	ND	330					
Pyrene	ND	330					
Pyridine	ND	330					
Safrole	ND	330					
<i>Surr: 2,4,6-Tribromophenol</i>	2682	0	3330	0	80.6	18-115	0
<i>Surr: 2-Fluorobiphenyl</i>	1329	0	1670	0	79.6	30-116	0
<i>Surr: 2-Fluorophenol</i>	1905	0	3330	0	57.2	24-105	0
<i>Surr: 4-Terphenyl-d14</i>	1212	0	1670	0	72.6	40-127	0
<i>Surr: Nitrobenzene-d5</i>	1542	0	1670	0	92.3	32-106	0
<i>Surr: Phenol-d5</i>	2333	0	3330	0	70.1	39-123	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID: SVMS2 Method: SW8270C

LCS		Sample ID: LCS-16817-16817			Units: µg/Kg		Analysis Date: 5/24/2013 07:45 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615806		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1214	330	1670	0	72.7	48.1-106	0			
1,4-Dichlorobenzene	1167	330	1670	0	69.9	55.5-89.4	0			
2,4-Dinitrotoluene	1486	330	1670	0	89	58.8-123	0			
2-Chlorophenol	1140	330	1670	0	68.3	34.7-116	0			
4-Chloro-3-methylphenol	1449	660	1670	0	86.8	32.1-109	0			
4-Nitrophenol	ND	1,600	1670	0	74.9	36.2-146	0			
Acenaphthene	1263	330	1670	0	75.6	67.8-104	0			
Acenaphthylene	1222	330	1670	0	73.2	65.6-103	0			
Anthracene	1317	330	1670	0	78.8	71.1-107	0			
Benzo(a)anthracene	1365	330	1670	0	81.7	60.4-118	0			
Benzo(a)pyrene	1536	330	1670	0	92	73.7-110	0			
Benzo(b)fluoranthene	1475	330	1670	0	88.3	59.9-94.8	0			
Benzo(g,h,i)perylene	1355	330	1670	0	81.2	40-129	0			
Benzo(k)fluoranthene	1412	330	1670	0	84.5	75.7-130	0			
Carbazole	1699	330	1670	0	102	69.6-107	0			
Chrysene	1429	330	1670	0	85.6	62.3-115	0			
Dibenzo(a,h)anthracene	1282	330	1670	0	76.8	59.2-121	0			
Fluoranthene	1436	330	1670	0	86	63-120	0			
Fluorene	1265	330	1670	0	75.7	69-106	0			
Indeno(1,2,3-cd)pyrene	1284	150	1670	0	76.9	59-110	0			
Naphthalene	1205	330	1670	0	72.2	49.1-103	0			
N-Nitrosodi-n-propylamine	1352	330	1670	0	80.9	25.3-127	0			
Pentachlorophenol	1621	1,600	1670	0	97.1	22.1-105	0			
Phenanthrene	1342	330	1670	0	80.3	70-112	0			
Phenol	1147	330	1670	0	68.7	36.9-97.8	0			
Pyrene	1344	330	1670	0	80.5	55-117	0			
Surr: 2,4,6-Tribromophenol	2259	0	3330	0	67.8	18-115	0			
Surr: 2-Fluorobiphenyl	1156	0	1670	0	69.2	30-116	0			
Surr: 2-Fluorophenol	1944	0	3330	0	58.4	24-105	0			
Surr: 4-Terphenyl-d14	1130	0	1670	0	67.7	40-127	0			
Surr: Nitrobenzene-d5	1177	0	1670	0	70.5	32-106	0			
Surr: Phenol-d5	2183	0	3330	0	65.6	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID: SVMS2 Method: SW8270C

MS		Sample ID: ms 1305471-02b			Units: µg/Kg		Analysis Date: 5/24/2013 08:19 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615807		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1209	330	1669	0	72.4	50.6-92	0			
1,4-Dichlorobenzene	1132	330	1669	0	67.8	40.1-84.3	0			
2,4-Dinitrotoluene	1406	330	1669	0	84.2	50.3-127	0			
2-Chlorophenol	1107	330	1669	0	66.3	33.3-109	0			
4-Chloro-3-methylphenol	1449	660	1669	0	86.8	35.8-116	0			
4-Nitrophenol	ND	1,600	1669	0	92.5	38.7-135	0			
Acenaphthene	1237	330	1669	0	74.1	54.1-109	0			
Acenaphthylene	1214	330	1669	0	72.7	55.3-118	0			
Anthracene	1280	330	1669	0	76.7	51-106	0			
Benzo(a)anthracene	1287	330	1669	0	77.1	31.6-128	0			
Benzo(a)pyrene	1465	330	1669	0	87.8	66.1-109	0			
Benzo(b)fluoranthene	1431	330	1669	0	85.7	56.8-87.8	0			
Benzo(g,h,i)perylene	1411	330	1669	0	84.5	37.7-113	0			
Benzo(k)fluoranthene	1412	330	1669	0	84.6	57-119	0			
Carbazole	1749	330	1669	0	105	28.5-114	0			
Chrysene	1329	330	1669	0	79.6	46.3-104	0			
Dibenzo(a,h)anthracene	1271	330	1669	0	76.1	48.8-123	0			
Fluoranthene	1354	330	1669	0	81.1	52-120	0			
Fluorene	1261	330	1669	0	75.5	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1252	150	1669	0	75	56.1-118	0			
Naphthalene	1199	330	1669	0	71.8	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1359	330	1669	0	81.4	46.5-116	0			
Pentachlorophenol	1685	1,600	1669	0	101	28.9-156	0			
Phenanthrene	1284	330	1669	0	76.9	52-105	0			
Phenol	1109	330	1669	0	66.4	25.9-90.3	0			
Pyrene	1295	330	1669	0	77.6	51-111	0			
<i>Surr: 2,4,6-Tribromophenol</i>	2319	0	3329	0	69.7	18-115	0			
<i>Surr: 2-Fluorobiphenyl</i>	1191	0	1669	0	71.3	30-116	0			
<i>Surr: 2-Fluorophenol</i>	2114	0	3329	0	63.5	24-105	0			
<i>Surr: 4-Terphenyl-d14</i>	1103	0	1669	0	66.1	40-127	0			
<i>Surr: Nitrobenzene-d5</i>	1232	0	1669	0	73.8	32-106	0			
<i>Surr: Phenol-d5</i>	2272	0	3329	0	68.2	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID: SVMS2 Method: SW8270C

MSD		Sample ID: msd 1305471-02b			Units: µg/Kg		Analysis Date: 5/24/2013 08:54 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615808		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1218	330	1670	0	72.9	50.6-92	0			
1,4-Dichlorobenzene	1158	330	1670	0	69.4	40.1-84.3	0			
2,4-Dinitrotoluene	1406	330	1670	0	84.2	50.3-127	0			
2-Chlorophenol	1131	330	1670	0	67.7	33.3-109	0			
4-Chloro-3-methylphenol	1468	660	1670	0	87.9	35.8-116	0			
4-Nitrophenol	ND	1,600	1670	0	74.5	38.7-135	0			
Acenaphthene	1248	330	1670	0	74.7	54.1-109	0			
Acenaphthylene	1227	330	1670	0	73.5	55.3-118	0			
Anthracene	1272	330	1670	0	76.2	51-106	0			
Benzo(a)anthracene	1206	330	1670	0	72.2	31.6-128	0			
Benzo(a)pyrene	1456	330	1670	0	87.2	66.1-109	0			
Benzo(b)fluoranthene	1309	330	1670	0	78.4	56.8-87.8	0			
Benzo(g,h,i)perylene	1466	330	1670	0	87.8	37.7-113	0			
Benzo(k)fluoranthene	1385	330	1670	0	83	57-119	0			
Carbazole	1770	330	1670	0	106	28.5-114	0			
Chrysene	1232	330	1670	0	73.8	46.3-104	0			
Dibenzo(a,h)anthracene	1342	330	1670	0	80.4	48.8-123	0			
Fluoranthene	1328	330	1670	0	79.5	52-120	0			
Fluorene	1249	330	1670	0	74.8	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1348	150	1670	0	80.7	56.1-118	0			
Naphthalene	1212	330	1670	0	72.6	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1377	330	1670	0	82.5	46.5-116	0			
Pentachlorophenol	1607	1,600	1670	0	96.2	28.9-156	0			
Phenanthrene	1287	330	1670	0	77.1	52-105	0			
Phenol	1114	330	1670	0	66.7	25.9-90.3	0			
Pyrene	1244	330	1670	0	74.5	51-111	0			
<i>Surr: 2,4,6-Tribromophenol</i>	2249	0	3330	0	67.5	18-115	0			
<i>Surr: 2-Fluorobiphenyl</i>	1197	0	1670	0	71.7	30-116	0			
<i>Surr: 2-Fluorophenol</i>	2154	0	3330	0	64.7	24-105	0			
<i>Surr: 4-Terphenyl-d14</i>	1077	0	1670	0	64.5	40-127	0			
<i>Surr: Nitrobenzene-d5</i>	1250	0	1670	0	74.9	32-106	0			
<i>Surr: Phenol-d5</i>	2298	0	3330	0	69	39-123	0			

The following samples were analyzed in this batch:

1305471-01B	1305471-02B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99281** Instrument ID: **VMS1** Method: **SW8260**

MBLK		Sample ID: MBLK-R99281			Units: µg/L		Analysis Date: 5/24/2013 08:14 AM			
Client ID:		Run ID: VMS1_130524A			SeqNo: 614190		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99281	Instrument ID: VMS1	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	2.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	49.14	0	50	0	98.3	61-131	0
<i>Surr: Dibromofluoromethane</i>	48.93	0	50	0	97.9	87-126	0
<i>Surr: Toluene-d8</i>	49.75	0	50	0	99.5	84-111	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99281** Instrument ID: **VMS1** Method: **SW8260**

LCS		Sample ID: LCS-R99281			Units: µg/L		Analysis Date: 5/24/2013 08:43 AM			
Client ID:		Run ID: VMS1_130524A			SeqNo: 614191		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	53.76	5.0	50	0	108	48.4-140	0			
1,1-Dichloroethene	51.47	5.0	50	0	103	45.5-150	0			
1,2-Dichloroethane	54.24	5.0	50	0	108	46.5-141	0			
1,3-Dichlorobenzene	49.91	5.0	50	0	99.8	42.5-133	0			
1,4-Dichlorobenzene	50.38	5.0	50	0	101	38.9-136	0			
Benzene	52.64	5.0	50	0	105	50.7-134	0			
Carbon tetrachloride	55.29	5.0	50	0	111	45.5-143	0			
Chlorobenzene	50.43	5.0	50	0	101	45-133	0			
Chloroform	52.48	5.0	50	0	105	52.4-136	0			
cis-1,2-Dichloroethene	52.5	5.0	50	0	105	49.7-138	0			
Ethylbenzene	51.09	5.0	50	0	102	37.8-145	0			
m,p-Xylene	103.5	5.0	100	0	103	25.1-163	0			
Styrene	53.93	5.0	50	0	108	26.3-172	0			
Tetrachloroethene	50.6	5.0	50	0	101	37.3-139	0			
Toluene	51.85	5.0	50	0	104	44-135	0			
Trichloroethene	53.71	5.0	50	0	107	46.9-134	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.84	0	50	0	99.7	61-131	0			
<i>Surr: Dibromofluoromethane</i>	50.25	0	50	0	100	87-126	0			
<i>Surr: Toluene-d8</i>	50.73	0	50	0	101	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99281** Instrument ID: **VMS1** Method: **SW8260**

MS		Sample ID: 1305448-02A MS			Units: µg/L		Analysis Date: 5/24/2013 09:13 AM			
Client ID:		Run ID: VMS1_130524A			SeqNo: 614192		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	44.24	5.0	50	0	88.5	47.4-141	0			
1,1-Dichloroethene	43.09	5.0	50	0	86.2	56.3-140	0			
1,2-Dichloroethane	42.66	5.0	50	0	85.3	50.1-139	0			
1,3-Dichlorobenzene	43.24	5.0	50	0	86.5	53-127	0			
1,4-Dichlorobenzene	42.38	5.0	50	0	84.8	53.4-129	0			
Benzene	43.47	5.0	50	0	86.9	52.8-136	0			
Carbon tetrachloride	46.94	5.0	50	0	93.9	48.1-141	0			
Chlorobenzene	42.56	5.0	50	0	85.1	52.4-132	0			
Chloroform	43.01	5.0	50	0	86	52.9-136	0			
cis-1,2-Dichloroethene	43.48	5.0	50	0	87	63.5-128	0			
Ethylbenzene	43.37	5.0	50	0	86.7	46.5-146	0			
m,p-Xylene	88.03	5.0	100	0	88	38.2-167	0			
Styrene	38.71	5.0	50	0	77.4	20.9-184	0			
Tetrachloroethene	42.57	5.0	50	0	85.1	55.2-134	0			
Toluene	44.01	5.0	50	0	88	45.1-138	0			
Trichloroethene	44.17	5.0	50	0	88.3	52.8-133	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.97	0	50	0	99.9	61-131	0			
<i>Surr: Dibromofluoromethane</i>	49.46	0	50	0	98.9	87-126	0			
<i>Surr: Toluene-d8</i>	50.43	0	50	0	101	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99281** Instrument ID: **VMS1** Method: **SW8260**

MSD		Sample ID: 1305448-02A MSD				Units: µg/L		Analysis Date: 5/24/2013 11:24 AM		
Client ID:		Run ID: VMS1_130524A				SeqNo: 614258		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	41.45	5.0	50	0	82.9	47.4-141	44.24	6.51	20	
1,1-Dichloroethene	41.18	5.0	50	0	82.4	56.3-140	43.09	4.53	20	
1,2-Dichloroethane	42.07	5.0	50	0	84.1	50.1-139	42.66	1.39	20	
1,3-Dichlorobenzene	39.61	5.0	50	0	79.2	53-127	43.24	8.76	20	
1,4-Dichlorobenzene	39.99	5.0	50	0	80	53.4-129	42.38	5.8	20	
Benzene	42.26	5.0	50	0	84.5	52.8-136	43.47	2.82	20	
Carbon tetrachloride	42.22	5.0	50	0	84.4	48.1-141	46.94	10.6	20	
Chlorobenzene	40.4	5.0	50	0	80.8	52.4-132	42.56	5.21	20	
Chloroform	41.55	5.0	50	0	83.1	52.9-136	43.01	3.45	20	
cis-1,2-Dichloroethene	40.83	5.0	50	0	81.7	63.5-128	43.48	6.29	20	
Ethylbenzene	40.62	5.0	50	0	81.2	46.5-146	43.37	6.55	20	
m,p-Xylene	82.82	5.0	100	0	82.8	38.2-167	88.03	6.1	20	
Styrene	43.92	5.0	50	0	87.8	20.9-184	38.71	12.6	20	
Tetrachloroethene	40.01	5.0	50	0	80	55.2-134	42.57	6.2	20	
Toluene	41.65	5.0	50	0	83.3	45.1-138	44.01	5.51	20	
Trichloroethene	41.47	5.0	50	0	82.9	52.8-133	44.17	6.31	20	
<i>Surr: 4-Bromofluorobenzene</i>	48.41	0	50	0	96.8	61-131	49.97	3.17		
<i>Surr: Dibromofluoromethane</i>	50.9	0	50	0	102	87-126	49.46	2.87		
<i>Surr: Toluene-d8</i>	50.74	0	50	0	101	84-111	50.43	0.613		

The following samples were analyzed in this batch:

1305471-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99282** Instrument ID: **VMS2** Method: **SW8260**

MBLK		Sample ID: MBLK-R99282			Units: µg/Kg		Analysis Date: 5/24/2013 07:51 AM			
Client ID:		Run ID: VMS2_130524A			SeqNo: 614195		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305471
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99282	Instrument ID: VMS2	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	5.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	49.21	0	50	0	98.4	62.7-159	0
<i>Surr: Dibromofluoromethane</i>	53.93	0	50	0	108	88.2-133	0
<i>Surr: Toluene-d8</i>	50.02	0	50	0	100	81.5-110	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99282** Instrument ID: **VMS2** Method: **SW8260**

LCS		Sample ID: LCS-R99282			Units: µg/Kg		Analysis Date: 5/24/2013 08:23 AM			
Client ID:		Run ID: VMS2_130524A			SeqNo: 614196		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	63.72	5.0	50	0	127	70-132	0			
1,1-Dichloroethene	62.04	5.0	50	0	124	61.2-140	0			
1,2-Dichloroethane	63.83	5.0	50	0	128	67.3-139	0			
1,3-Dichlorobenzene	58.3	5.0	50	0	117	67.5-126	0			
1,4-Dichlorobenzene	55.11	5.0	50	0	110	69.5-124	0			
Benzene	58.51	5.0	50	0	117	67.2-135	0			
Carbon tetrachloride	64.86	5.0	50	0	130	68.6-138	0			
Chlorobenzene	57.41	5.0	50	0	115	66.4-133	0			
Chloroform	59.09	5.0	50	0	118	68.2-127	0			
cis-1,2-Dichloroethene	59.49	5.0	50	0	119	62.1-135	0			
Ethylbenzene	58.34	5.0	50	0	117	67.8-132	0			
m,p-Xylene	118	5.0	100	0	118	66.4-132	0			
Styrene	57.99	5.0	50	0	116	67.6-134	0			
Tetrachloroethene	59.36	5.0	50	0	119	70.3-144	0			
Toluene	59.7	5.0	50	0	119	67.8-130	0			
Trichloroethene	62.11	5.0	50	0	124	68.5-136	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.9	0	50	0	99.8	62.7-159	0			
<i>Surr: Dibromofluoromethane</i>	49.49	0	50	0	99	88.2-133	0			
<i>Surr: Toluene-d8</i>	50.14	0	50	0	100	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99282** Instrument ID: **VMS2** Method: **SW8260**

MS		Sample ID: 1305354-03A MS			Units: µg/Kg		Analysis Date: 5/24/2013 09:36 AM			
Client ID:		Run ID: VMS2_130524A			SeqNo: 614198		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	37.68	5.0	50	0	75.4	66.9-140	0			
1,1-Dichloroethene	38.11	5.0	50	0	76.2	65.9-143	0			
1,2-Dichloroethane	36.86	5.0	50	0	73.7	73-135	0			
1,3-Dichlorobenzene	42.1	5.0	50	0	84.2	61.2-125	0			
1,4-Dichlorobenzene	41.07	5.0	50	0	82.1	62.3-123	0			
Benzene	41.62	5.0	50	0	83.2	35.8-162	0			
Carbon tetrachloride	37.66	5.0	50	0	75.3	71.4-130	0			
Chlorobenzene	41.36	5.0	50	0	82.7	65.6-137	0			
Chloroform	40.28	5.0	50	0	80.6	69.6-128	0			
cis-1,2-Dichloroethene	39.94	5.0	50	0	79.9	68.8-130	0			
Ethylbenzene	39.81	5.0	50	0	79.6	68.6-124	0			
m,p-Xylene	79.33	5.0	100	0	79.3	64.5-125	0			
Styrene	41.01	5.0	50	0	82	65.9-125	0			
Tetrachloroethene	48.64	5.0	50	0	97.3	71.6-135	0			
Toluene	40.72	5.0	50	0	81.4	67.7-135	0			
Trichloroethene	41.26	5.0	50	0	82.5	70.9-139	0			
Surr: 4-Bromofluorobenzene	52.85	0	50	0	106	62.7-159	0			
Surr: Dibromofluoromethane	48.22	0	50	0	96.4	88.2-133	0			
Surr: Toluene-d8	48.85	0	50	0	97.7	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305471
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99282** Instrument ID: **VMS2** Method: **SW8260**

MSD		Sample ID: 1305354-03A MSD				Units: µg/Kg		Analysis Date: 5/24/2013 10:07 AM			
Client ID:		Run ID: VMS2_130524A				SeqNo: 614199		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	47.92	5.0	50	0	95.8	66.9-140	37.68	23.9	20	R	
1,1-Dichloroethene	49.13	5.0	50	0	98.3	65.9-143	38.11	25.3	20	R	
1,2-Dichloroethane	48.07	5.0	50	0	96.1	73-135	36.86	26.4	20	R	
1,3-Dichlorobenzene	54.12	5.0	50	0	108	61.2-125	42.1	25	21	R	
1,4-Dichlorobenzene	51.2	5.0	50	0	102	62.3-123	41.07	22	22.5		
Benzene	51.92	5.0	50	0	104	35.8-162	41.62	22	23.6		
Carbon tetrachloride	47.32	5.0	50	0	94.6	71.4-130	37.66	22.7	22.9		
Chlorobenzene	49.42	5.0	50	0	98.8	65.6-137	41.36	17.8	20		
Chloroform	51.94	5.0	50	0	104	69.6-128	40.28	25.3	23.1	R	
cis-1,2-Dichloroethene	51.17	5.0	50	0	102	68.8-130	39.94	24.7	23.7	R	
Ethylbenzene	49.68	5.0	50	0	99.4	68.6-124	39.81	22.1	24.9		
m,p-Xylene	97.24	5.0	100	0	97.2	64.5-125	79.33	20.3	25.1		
Styrene	49.85	5.0	50	0	99.7	65.9-125	41.01	19.5	22.8		
Tetrachloroethene	61.85	5.0	50	0	124	71.6-135	48.64	23.9	24.7		
Toluene	50.72	5.0	50	0	101	67.7-135	40.72	21.9	20	R	
Trichloroethene	51.97	5.0	50	0	104	70.9-139	41.26	23	20	R	
<i>Surr: 4-Bromofluorobenzene</i>	51.28	0	50	0	103	62.7-159	52.85	3.02			
<i>Surr: Dibromofluoromethane</i>	50.78	0	50	0	102	88.2-133	48.22	5.17			
<i>Surr: Toluene-d8</i>	49.2	0	50	0	98.4	81.5-110	48.85	0.714			

The following samples were analyzed in this batch:

1305471-01A	1305471-02A
-------------	-------------

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 12-Jun-13

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305471

Analytical Comments

Method	Type:	SampID	SeqNo	Analysis	Comments
Batch <u>R99668a</u>					
	Analysis	1305471-01D	623999	Organochlorine Pesticides	Surrogate was diluted out. Dilution = 20
Batch <u>R99668b</u>					
	Analysis	1305471-01C	624167	Herbicides	Surrogate was diluted out. Dilution = 10

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
WorkOrder: 1305471

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
%	
% of sample	
µg/Kg	
µg/Kg-dry	
µg/L	
mg/Kg	
mg/Kg-dry	
mg/L	

Sample Receipt Checklist

Client Name: **AECOM-CINCINNATI**

Date/Time Received: **21-May-13 00:00**

Work Order: **1305471**

Received by: **JNW**

Checklist completed by: Jan Wilcox 22-May-13
eSignature Date

Reviewed by: Chris Gibson 07-Jun-13
eSignature Date

Matrices:

Carrier name: Client

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

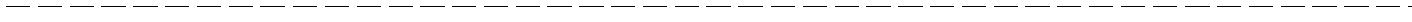
Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:



Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



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 10450 Stancil Rd., Suite 210
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Chain of Custody Form

ALS Laboratory Group

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 Holland, MI 49424-9263
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Page 1 of 2

1305471

Customer Information				ALS Project Manager:				ALS Work Order #:													
Project Information				Parameter/Method Request for Analysis																	
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	B	C	D	E	F	G	H	I	J	Hold	VOC-5035/8260						
Work Order		Project Number	60299534	B											Metals-6010						
Company Name	AECOM	Bill To Company	AECOM	C											5006-8270						
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D											PCB ₁ -8082						
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E											Pesticides-8081						
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	F											Herbicides-8151						
Phone	(513) 878-6853	Phone	(513) 878-6844	H											TOC-						
Fax	(513) 878-6848	Fax	(513) 878-6848	I																	
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	J																	
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold				
1	SED-2-0001	05-21-13	0900	Soil	None	4	X														
2								X	X	X	X	X									
3	SED-5-0001		1230	Soil		4	X														
4						4		X	X	X	X	X									
5																					
6																					
7																					
8																					
9																					
10																					
Sampler(s) Please Print & Sign												Required Turnaround Time: (Check Box)		Results Due Date:							
Relinquished by:												<input type="checkbox"/> Std 10 WK Days		<input checked="" type="checkbox"/> 5 WK Days		<input type="checkbox"/> Other					
Relinquished by:												<input type="checkbox"/> 2 WK Days		<input type="checkbox"/> 24 Hour							
Logged by (Laboratory):												Cooler Temp.		QC Package: (Check One Box Below)							
Received by (Laboratory):												Cooler ID		Level II Sid QC <input checked="" type="checkbox"/>							
Checked by (Laboratory):												Cooler Temp.		Level III Sid CC/Raw Data <input type="checkbox"/>							
Date: 5-21-17												Cooler ID		Level IV SW646/CLP <input type="checkbox"/>							
Date: 1315												Cooler ID		Other/EDD <input type="checkbox"/>							
Date: 1315												Cooler ID		TRRP CheckList <input type="checkbox"/>							
Date: 1315												Cooler ID		TRRP Level IV <input type="checkbox"/>							
Date: 1315												Cooler ID		2.3°C							
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-H ₂ SO ₄ 7-Other 8-4°C 9-5035												Cooler ID		Cooler Temp.							
Date: 5-21-17												Cooler ID		Cooler Temp.							
Date: 1315												Cooler ID		Cooler Temp.							
Date: 1315												Cooler ID		Cooler Temp.							
Date: 1315												Cooler ID		Cooler Temp.							

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.



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Chain of Custody Form

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 Holland, MI 49424-9263
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Page 2 of 2

1305471

Customer Information				Project Information				ALS Work Order #:														
Parameter/Method Request for Analysis				ALS Project Manager:																		
Purchase Order	46486 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	B	C	D	E	F	G	H	I	J	Hold								
Work Order		Project Number	60299534	B																		
Company Name	AECOM	Bill To Company	AECOM	C																		
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D																		
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E																		
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	F																		
Phone	(513) 878-6853	Phone	(513) 878-6844	G																		
Fax	(513) 878-6848	Fax	(513) 878-6848	H																		
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	I																		
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold					
1	SW-5-052113	05-21-13	1210	W	-	4			X	X	X											
2					HCL	2	X															
3					HNO3	1		X					X									
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Sampler(s) Please Print & Sign

Relinquished by: *[Signature]* Date: 5-21-13 Time: 1315

Relinquished by: _____ Date: _____ Time: _____

Logged by (Laboratory): _____ Date: _____ Time: _____

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4°C 9-5035

Required Turnaround Time: (Check Box)
 Std 10 WK Days 5 WK Days 24 Hour
 Other 2 WK Days

Results Due Date: _____

Notes: _____

QC Package: (Check One Box Below)
 Level II Std OC TRRP Checklist
 Level III Std QC/Raw Data TRRP Level IV
 Level IV SW846/CLP Other/EDD

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
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 3. The Chain of Custody is a legal document. All information must be completed accurately.

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12-Jun-2013

Elaine Nomina
AECOM
4219 Malsbury Road
Cincinnati, OH 45242

Tel: (513) 878-6853
Fax: (513) 878-6848

Re: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: **1305474**

Dear Elaine,

ALS Environmental received 2 samples on 21-May-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 41.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

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RIGHT SOLUTIONS. RIGHT PARTNER.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305474

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1305474-01	SW-3-052113	Water		5/21/2013 10:05	5/21/2013	<input type="checkbox"/>
1305474-02	SW-2-052113	Water		5/21/2013 08:38	5/21/2013	<input type="checkbox"/>
1305474-02	SW-2-052113	Water		5/21/2013 08:38	5/21/2013	<input type="checkbox"/>

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305474

Case Narrative

The analyses requested were analyzed according to Ohio Voluntary Action Program requirements.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305474

Sample ID: SW-3-052113

Lab ID: 1305474-01

Collection Date: 5/21/2013 10:05 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.53	µg/L	1	5/24/2013
Aroclor 1221	ND		0.53	µg/L	1	5/24/2013
Aroclor 1232	ND		0.53	µg/L	1	5/24/2013
Aroclor 1242	ND		0.53	µg/L	1	5/24/2013
Aroclor 1248	ND		0.53	µg/L	1	5/24/2013
Aroclor 1254	ND		0.53	µg/L	1	5/24/2013
Aroclor 1260	ND		0.53	µg/L	1	5/24/2013
Surr: Decachlorobiphenyl	86.8		37-108	%REC	1	5/24/2013
Surr: Tetrachloro-m-xylene	86.8		9-136	%REC	1	5/24/2013
MERCURY BY CVAA			SW7470A		Prep Date: 5/27/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	5/28/2013 06:13 PM
METALS BY ICP			SW6010B		Prep Date: 5/22/2013	Analyst: VAW
Aluminum	ND		0.20	mg/L	1	5/22/2013 06:48 PM
Antimony	ND		0.0060	mg/L	1	5/22/2013 06:48 PM
Arsenic	ND		0.010	mg/L	1	5/22/2013 06:48 PM
Barium	ND		0.10	mg/L	1	5/22/2013 06:48 PM
Beryllium	ND		0.0040	mg/L	1	5/22/2013 06:48 PM
Cadmium	ND		0.0050	mg/L	1	5/22/2013 06:48 PM
Calcium	500		0.20	mg/L	1	5/22/2013 06:48 PM
Chromium	ND		0.020	mg/L	1	5/22/2013 06:48 PM
Cobalt	ND		0.050	mg/L	1	5/22/2013 06:48 PM
Copper	ND		0.025	mg/L	1	5/22/2013 06:48 PM
Iron	ND		0.20	mg/L	1	5/22/2013 06:48 PM
Lead	ND		0.015	mg/L	1	5/22/2013 06:48 PM
Magnesium	57		0.20	mg/L	1	5/22/2013 06:48 PM
Manganese	ND		0.050	mg/L	1	5/22/2013 06:48 PM
Nickel	ND		0.040	mg/L	1	5/22/2013 06:48 PM
Potassium	2.9		0.20	mg/L	1	5/22/2013 06:48 PM
Selenium	ND		0.030	mg/L	1	5/22/2013 06:48 PM
Silver	ND		0.010	mg/L	1	5/22/2013 06:48 PM
Sodium	14		0.20	mg/L	1	5/22/2013 06:48 PM
Thallium	ND		0.0020	mg/L	1	5/22/2013 06:48 PM
Vanadium	ND		0.050	mg/L	1	5/22/2013 06:48 PM
Zinc	ND		0.050	mg/L	1	5/22/2013 06:48 PM
SM2340B HARDNESS BY CALCULATION			SM2340B			Analyst: KMW
CaCO3	1,300		5.0	mg/L	1	5/28/2013
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/24/2013	Analyst: Microb

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305474

Sample ID: SW-3-052113

Lab ID: 1305474-01

Collection Date: 5/21/2013 10:05 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		0.053	µg/L	1	5/31/2013 01:38 AM
4,4'-DDE	ND		0.053	µg/L	1	5/31/2013 01:38 AM
4,4'-DDT	ND		0.053	µg/L	1	5/31/2013 01:38 AM
Aldrin	ND		0.053	µg/L	1	5/31/2013 01:38 AM
alpha Chlordane	ND		0.053	µg/L	1	5/31/2013 01:38 AM
alpha-BHC	ND		0.053	µg/L	1	5/31/2013 01:38 AM
beta-BHC	ND		0.053	µg/L	1	5/31/2013 01:38 AM
delta-BHC	ND		0.053	µg/L	1	5/31/2013 01:38 AM
Dieldrin	ND		0.053	µg/L	1	5/31/2013 01:38 AM
Endosulfan I	ND		0.053	µg/L	1	5/31/2013 01:38 AM
Endosulfan II	ND		0.053	µg/L	1	5/31/2013 01:38 AM
Endosulfan sulfate	ND		0.053	µg/L	1	5/31/2013 01:38 AM
Endrin	ND		0.053	µg/L	1	5/31/2013 01:38 AM
Endrin aldehyde	ND		0.053	µg/L	1	5/31/2013 01:38 AM
Endrin ketone	ND		0.053	µg/L	1	5/31/2013 01:38 AM
gamma Chlordane	ND		0.053	µg/L	1	5/31/2013 01:38 AM
gamma-BHC (Lindane)	ND		0.053	µg/L	1	5/31/2013 01:38 AM
Heptachlor	ND		0.053	µg/L	1	5/31/2013 01:38 AM
Heptachlor epoxide	ND		0.053	µg/L	1	5/31/2013 01:38 AM
Methoxychlor	ND		0.053	µg/L	1	5/31/2013 01:38 AM
Toxaphene	ND		1.0	µg/L	1	5/31/2013 01:38 AM
<i>Surr: Decachlorobiphenyl</i>	51.9		25-140	%REC	1	5/31/2013 01:38 AM
<i>Surr: Tetrachloro-m-xylene</i>	58.1		20-180	%REC	1	5/31/2013 01:38 AM

HERBICIDES

SW8151

Prep Date: 5/23/2013

Analyst: Microb

2,4,5-T	ND		0.20	µg/L	1	5/29/2013 10:11 PM
2,4,5-TP (Silvex)	ND		0.20	µg/L	1	5/29/2013 10:11 PM
2,4-D	ND		2.0	µg/L	1	5/29/2013 10:11 PM
2,4-DB	ND		2.0	µg/L	1	5/29/2013 10:11 PM
Dalapon	ND		5.0	µg/L	1	5/29/2013 10:11 PM
Dicamba	ND		0.20	µg/L	1	5/29/2013 10:11 PM
Dichlorprop	ND		2.0	µg/L	1	5/29/2013 10:11 PM
Dinoseb	ND		1.0	µg/L	1	5/29/2013 10:11 PM
MCPA	ND		250	µg/L	1	5/29/2013 10:11 PM
MCPP	ND		250	µg/L	1	5/29/2013 10:11 PM
Pentachlorophenol	ND		0.20	µg/L	1	5/29/2013 10:11 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	105		20-144	%REC	1	5/29/2013 10:11 PM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 5/23/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		11	µg/L	1	5/29/2013 02:51 AM
1,2,4-Trichlorobenzene	ND		11	µg/L	1	5/29/2013 02:51 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305474

Sample ID: SW-3-052113

Lab ID: 1305474-01

Collection Date: 5/21/2013 10:05 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		11	µg/L	1	5/29/2013 02:51 AM
1,3-Dichlorobenzene	ND		11	µg/L	1	5/29/2013 02:51 AM
1,3-Dinitrobenzene	ND		11	µg/L	1	5/29/2013 02:51 AM
1,4-Dichlorobenzene	ND		11	µg/L	1	5/29/2013 02:51 AM
1-Methylnaphthalene	ND		0.11	µg/L	1	5/28/2013 11:45 PM
1-Naphthylamine	ND		11	µg/L	1	5/29/2013 02:51 AM
2,3,4,6-Tetrachlorophenol	ND		11	µg/L	1	5/29/2013 02:51 AM
2,4,5-Trichlorophenol	ND		11	µg/L	1	5/29/2013 02:51 AM
2,4,6-Trichlorophenol	ND		11	µg/L	1	5/29/2013 02:51 AM
2,4-Dichlorophenol	ND		11	µg/L	1	5/29/2013 02:51 AM
2,4-Dimethylphenol	ND		11	µg/L	1	5/29/2013 02:51 AM
2,4-Dinitrophenol	ND		11	µg/L	1	5/29/2013 02:51 AM
2,4-Dinitrotoluene	ND		11	µg/L	1	5/29/2013 02:51 AM
2,6-Dichlorophenol	ND		11	µg/L	1	5/29/2013 02:51 AM
2,6-Dinitrotoluene	ND		11	µg/L	1	5/29/2013 02:51 AM
2-Acetylaminofluorene	ND		11	µg/L	1	5/29/2013 02:51 AM
2-Chloronaphthalene	ND		11	µg/L	1	5/29/2013 02:51 AM
2-Chlorophenol	ND		11	µg/L	1	5/29/2013 02:51 AM
2-Methylnaphthalene	0.18		0.11	µg/L	1	5/28/2013 11:45 PM
2-Methylphenol	ND		11	µg/L	1	5/29/2013 02:51 AM
2-Naphthylamine	ND		21	µg/L	1	5/29/2013 02:51 AM
2-Nitroaniline	ND		11	µg/L	1	5/29/2013 02:51 AM
2-Nitrophenol	ND		11	µg/L	1	5/29/2013 02:51 AM
2-Picoline	ND		21	µg/L	1	5/29/2013 02:51 AM
3&4-Methylphenol	ND		11	µg/L	1	5/29/2013 02:51 AM
3,3'-Dichlorobenzidine	ND		11	µg/L	1	5/29/2013 02:51 AM
3-Methylcholanthrene	ND		21	µg/L	1	5/29/2013 02:51 AM
3-Nitroaniline	ND		21	µg/L	1	5/29/2013 02:51 AM
4,6-Dinitro-2-methylphenol	ND		21	µg/L	1	5/29/2013 02:51 AM
4-Aminobiphenyl	ND		11	µg/L	1	5/29/2013 02:51 AM
4-Bromophenyl phenyl ether	ND		21	µg/L	1	5/29/2013 02:51 AM
4-Chloro-3-methylphenol	ND		21	µg/L	1	5/29/2013 02:51 AM
4-Chloroaniline	ND		11	µg/L	1	5/29/2013 02:51 AM
4-Chlorophenyl phenyl ether	ND		21	µg/L	1	5/29/2013 02:51 AM
4-Nitroaniline	ND		21	µg/L	1	5/29/2013 02:51 AM
4-Nitrophenol	ND		11	µg/L	1	5/29/2013 02:51 AM
4-Nitroquinoline 1-oxide	ND		11	µg/L	1	5/29/2013 02:51 AM
5-Nitro-o-toluidine	ND		11	µg/L	1	5/29/2013 02:51 AM
7,12-Dimethylbenz(a)anthracene	ND		11	µg/L	1	5/29/2013 02:51 AM
Acenaphthene	ND		0.11	µg/L	1	5/28/2013 11:45 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305474

Sample ID: SW-3-052113

Lab ID: 1305474-01

Collection Date: 5/21/2013 10:05 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		0.11	µg/L	1	5/28/2013 11:45 PM
Acetophenone	ND		11	µg/L	1	5/29/2013 02:51 AM
Aniline	ND		11	µg/L	1	5/29/2013 02:51 AM
Anthracene	ND		0.11	µg/L	1	5/28/2013 11:45 PM
Azobenzene	ND		11	µg/L	1	5/29/2013 02:51 AM
Benzidine	ND		11	µg/L	1	5/29/2013 02:51 AM
Benzo(a)anthracene	ND		0.11	µg/L	1	5/28/2013 11:45 PM
Benzo(a)pyrene	ND		0.11	µg/L	1	5/28/2013 11:45 PM
Benzo(b)fluoranthene	ND		0.12	µg/L	1	5/28/2013 11:45 PM
Benzo(g,h,i)perylene	ND		0.11	µg/L	1	5/28/2013 11:45 PM
Benzo(k)fluoranthene	ND		0.17	µg/L	1	5/28/2013 11:45 PM
Benzyl alcohol	ND		11	µg/L	1	5/29/2013 02:51 AM
Bis(2-chloroethoxy)methane	ND		11	µg/L	1	5/29/2013 02:51 AM
Bis(2-chloroethyl)ether	ND		11	µg/L	1	5/29/2013 02:51 AM
Bis(2-chloroisopropyl)ether	ND		11	µg/L	1	5/29/2013 02:51 AM
Bis(2-ethylhexyl)phthalate	ND		11	µg/L	1	5/29/2013 02:51 AM
Butyl benzyl phthalate	ND		11	µg/L	1	5/29/2013 02:51 AM
Carbazole	ND		11	µg/L	1	5/28/2013 11:45 PM
Chrysene	ND		0.11	µg/L	1	5/28/2013 11:45 PM
Dibenzo(a,h)anthracene	ND		0.11	µg/L	1	5/28/2013 11:45 PM
Dibenzofuran	ND		11	µg/L	1	5/28/2013 11:45 PM
Diethyl phthalate	ND		11	µg/L	1	5/29/2013 02:51 AM
Dimethyl phthalate	ND		11	µg/L	1	5/29/2013 02:51 AM
Di-n-butyl phthalate	ND		11	µg/L	1	5/29/2013 02:51 AM
Di-n-octyl phthalate	ND		11	µg/L	1	5/29/2013 02:51 AM
Dinoseb	ND		21	µg/L	1	5/29/2013 02:51 AM
Diphenylamine	ND		11	µg/L	1	5/29/2013 02:51 AM
Ethyl methanesulfonate	ND		11	µg/L	1	5/29/2013 02:51 AM
Fluoranthene	ND		0.11	µg/L	1	5/28/2013 11:45 PM
Fluorene	ND		0.11	µg/L	1	5/28/2013 11:45 PM
Hexachlorobenzene	ND		11	µg/L	1	5/29/2013 02:51 AM
Hexachlorobutadiene	ND		11	µg/L	1	5/29/2013 02:51 AM
Hexachlorocyclopentadiene	ND		11	µg/L	1	5/29/2013 02:51 AM
Hexachloroethane	ND		11	µg/L	1	5/29/2013 02:51 AM
Indeno(1,2,3-cd)pyrene	ND		0.11	µg/L	1	5/28/2013 11:45 PM
Isophorone	ND		11	µg/L	1	5/29/2013 02:51 AM
Isosafrole	ND		11	µg/L	1	5/29/2013 02:51 AM
Methapyrilene	ND		11	µg/L	1	5/29/2013 02:51 AM
Methyl methanesulfonate	ND		11	µg/L	1	5/29/2013 02:51 AM
Naphthalene	0.14		0.11	µg/L	1	5/28/2013 11:45 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305474

Sample ID: SW-3-052113

Lab ID: 1305474-01

Collection Date: 5/21/2013 10:05 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		11	µg/L	1	5/29/2013 02:51 AM
N-Nitrosodiethylamine	ND		11	µg/L	1	5/29/2013 02:51 AM
N-Nitrosodimethylamine	ND		11	µg/L	1	5/29/2013 02:51 AM
N-Nitroso-di-n-butylamine	ND		11	µg/L	1	5/29/2013 02:51 AM
N-Nitrosodi-n-propylamine	ND		11	µg/L	1	5/29/2013 02:51 AM
N-Nitrosomethylethylamine	ND		11	µg/L	1	5/29/2013 02:51 AM
N-Nitrosomorpholine	ND		11	µg/L	1	5/29/2013 02:51 AM
N-Nitrosopiperidine	ND		11	µg/L	1	5/29/2013 02:51 AM
N-Nitrosopyrrolidine	ND		11	µg/L	1	5/29/2013 02:51 AM
o-Toluidine	ND		11	µg/L	1	5/29/2013 02:51 AM
p-Dimethylaminoazobenzene	ND		11	µg/L	1	5/29/2013 02:51 AM
Pentachlorobenzene	ND		11	µg/L	1	5/29/2013 02:51 AM
Pentachloroethane	ND		11	µg/L	1	5/29/2013 02:51 AM
Pentachloronitrobenzene	ND		21	µg/L	1	5/29/2013 02:51 AM
Pentachlorophenol	ND		21	µg/L	1	5/29/2013 02:51 AM
Phenacetin	ND		21	µg/L	1	5/29/2013 02:51 AM
Phenanthrene	ND		0.11	µg/L	1	5/28/2013 11:45 PM
Phenol	ND		11	µg/L	1	5/29/2013 02:51 AM
Pyrene	ND		0.11	µg/L	1	5/28/2013 11:45 PM
Pyridine	ND		11	µg/L	1	5/29/2013 02:51 AM
Safrole	ND		11	µg/L	1	5/29/2013 02:51 AM
<i>Surr: 2,4,6-Tribromophenol</i>	78.5		35-120	%REC	1	5/29/2013 02:51 AM
<i>Surr: 2-Fluorobiphenyl</i>	78.1		38-105	%REC	1	5/29/2013 02:51 AM
<i>Surr: 2-Fluorophenol</i>	48.5		12-89	%REC	1	5/29/2013 02:51 AM
<i>Surr: 4-Terphenyl-d14</i>	80.3		42-125	%REC	1	5/29/2013 02:51 AM
<i>Surr: Nitrobenzene-d5</i>	96.0		28-120	%REC	1	5/29/2013 02:51 AM
<i>Surr: Phenol-d5</i>	30.3		10-62	%REC	1	5/29/2013 02:51 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	5/24/2013 01:54 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	5/24/2013 01:54 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	5/24/2013 01:54 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	5/24/2013 01:54 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	5/24/2013 01:54 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	5/24/2013 01:54 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	5/24/2013 01:54 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305474

Sample ID: SW-3-052113

Lab ID: 1305474-01

Collection Date: 5/21/2013 10:05 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.0	µg/L	1	5/24/2013 01:54 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	5/24/2013 01:54 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	5/24/2013 01:54 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	5/24/2013 01:54 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	5/24/2013 01:54 PM
2-Butanone	ND		5.0	µg/L	1	5/24/2013 01:54 PM
2-Chlorotoluene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
2-Hexanone	ND		5.0	µg/L	1	5/24/2013 01:54 PM
4-Chlorotoluene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Acetone	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Benzene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Bromobenzene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Bromochloromethane	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Bromodichloromethane	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Bromoform	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Bromomethane	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Carbon disulfide	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Carbon tetrachloride	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Chlorobenzene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Chloroethane	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Chloroform	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Chloromethane	ND		5.0	µg/L	1	5/24/2013 01:54 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Dibromochloromethane	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Dibromomethane	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Ethylbenzene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Isopropylbenzene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
m,p-Xylene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Methylene chloride	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Naphthalene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
n-Butylbenzene	ND		5.0	µg/L	1	5/24/2013 01:54 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305474

Sample ID: SW-3-052113

Lab ID: 1305474-01

Collection Date: 5/21/2013 10:05 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
o-Xylene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
sec-Butylbenzene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Styrene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
tert-Butylbenzene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Tetrachloroethene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Toluene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Trichloroethene	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Vinyl chloride	ND		2.0	µg/L	1	5/24/2013 01:54 PM
Xylenes, Total	ND		5.0	µg/L	1	5/24/2013 01:54 PM
Surr: 4-Bromofluorobenzene	97.8		61-131	%REC	1	5/24/2013 01:54 PM
Surr: Dibromofluoromethane	100		87-126	%REC	1	5/24/2013 01:54 PM
Surr: Toluene-d8	101		84-111	%REC	1	5/24/2013 01:54 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305474

Sample ID: SW-2-052113

Lab ID: 1305474-02

Collection Date: 5/21/2013 08:38 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.56	µg/L	1	5/24/2013
Aroclor 1221	ND		0.56	µg/L	1	5/24/2013
Aroclor 1232	ND		0.56	µg/L	1	5/24/2013
Aroclor 1242	ND		0.56	µg/L	1	5/24/2013
Aroclor 1248	ND		0.56	µg/L	1	5/24/2013
Aroclor 1254	ND		0.56	µg/L	1	5/24/2013
Aroclor 1260	ND		0.56	µg/L	1	5/24/2013
Surr: Decachlorobiphenyl	88.4		37-108	%REC	1	5/24/2013
Surr: Tetrachloro-m-xylene	88.8		9-136	%REC	1	5/24/2013
MERCURY BY CVAA			SW7470A		Prep Date: 5/27/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	5/28/2013 06:15 PM
METALS BY ICP			SW6010B		Prep Date: 5/22/2013	Analyst: VAW
Aluminum	ND		0.20	mg/L	1	5/22/2013 06:55 PM
Antimony	ND		0.0060	mg/L	1	5/22/2013 06:55 PM
Arsenic	ND		0.010	mg/L	1	5/22/2013 06:55 PM
Barium	ND		0.10	mg/L	1	5/22/2013 06:55 PM
Beryllium	ND		0.0040	mg/L	1	5/22/2013 06:55 PM
Cadmium	ND		0.0050	mg/L	1	5/22/2013 06:55 PM
Calcium	500		0.20	mg/L	1	5/22/2013 06:55 PM
Chromium	ND		0.020	mg/L	1	5/22/2013 06:55 PM
Cobalt	ND		0.050	mg/L	1	5/22/2013 06:55 PM
Copper	ND		0.025	mg/L	1	5/22/2013 06:55 PM
Iron	ND		0.20	mg/L	1	5/22/2013 06:55 PM
Lead	ND		0.015	mg/L	1	5/22/2013 06:55 PM
Magnesium	58		0.20	mg/L	1	5/22/2013 06:55 PM
Manganese	ND		0.050	mg/L	1	5/22/2013 06:55 PM
Nickel	ND		0.040	mg/L	1	5/22/2013 06:55 PM
Potassium	2.9		0.20	mg/L	1	5/22/2013 06:55 PM
Selenium	ND		0.030	mg/L	1	5/22/2013 06:55 PM
Silver	ND		0.010	mg/L	1	5/22/2013 06:55 PM
Sodium	14		0.20	mg/L	1	5/22/2013 06:55 PM
Thallium	ND		0.0020	mg/L	1	5/22/2013 06:55 PM
Vanadium	ND		0.050	mg/L	1	5/22/2013 06:55 PM
Zinc	ND		0.050	mg/L	1	5/22/2013 06:55 PM
SM2340B HARDNESS BY CALCULATION			SM2340B			Analyst: KMW
CaCO3	1,400		5.0	mg/L	1	5/28/2013
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/24/2013	Analyst: Microb

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305474

Sample ID: SW-2-052113

Lab ID: 1305474-02

Collection Date: 5/21/2013 08:38 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		0.050	µg/L	1	5/31/2013 02:05 AM
4,4'-DDE	ND		0.050	µg/L	1	5/31/2013 02:05 AM
4,4'-DDT	ND		0.050	µg/L	1	5/31/2013 02:05 AM
Aldrin	ND		0.050	µg/L	1	5/31/2013 02:05 AM
alpha Chlordane	ND		0.050	µg/L	1	5/31/2013 02:05 AM
alpha-BHC	ND		0.050	µg/L	1	5/31/2013 02:05 AM
beta-BHC	ND		0.050	µg/L	1	5/31/2013 02:05 AM
delta-BHC	ND		0.050	µg/L	1	5/31/2013 02:05 AM
Dieldrin	ND		0.050	µg/L	1	5/31/2013 02:05 AM
Endosulfan I	ND		0.050	µg/L	1	5/31/2013 02:05 AM
Endosulfan II	ND		0.050	µg/L	1	5/31/2013 02:05 AM
Endosulfan sulfate	ND		0.050	µg/L	1	5/31/2013 02:05 AM
Endrin	ND		0.050	µg/L	1	5/31/2013 02:05 AM
Endrin aldehyde	ND		0.050	µg/L	1	5/31/2013 02:05 AM
Endrin ketone	ND		0.050	µg/L	1	5/31/2013 02:05 AM
gamma Chlordane	ND		0.050	µg/L	1	5/31/2013 02:05 AM
gamma-BHC (Lindane)	ND		0.050	µg/L	1	5/31/2013 02:05 AM
Heptachlor	ND		0.050	µg/L	1	5/31/2013 02:05 AM
Heptachlor epoxide	ND		0.050	µg/L	1	5/31/2013 02:05 AM
Methoxychlor	ND		0.050	µg/L	1	5/31/2013 02:05 AM
Toxaphene	ND		1.0	µg/L	1	5/31/2013 02:05 AM
<i>Surr: Decachlorobiphenyl</i>	59.2		25-140	%REC	1	5/31/2013 02:05 AM
<i>Surr: Tetrachloro-m-xylene</i>	60.8		20-180	%REC	1	5/31/2013 02:05 AM
HERBICIDES			SW8151		Prep Date: 5/23/2013	Analyst: Microb
2,4,5-T	ND		0.20	µg/L	1	5/29/2013 10:37 PM
2,4,5-TP (Silvex)	ND		0.20	µg/L	1	5/29/2013 10:37 PM
2,4-D	ND		2.0	µg/L	1	5/29/2013 10:37 PM
2,4-DB	ND		2.0	µg/L	1	5/29/2013 10:37 PM
Dalapon	ND		5.0	µg/L	1	5/29/2013 10:37 PM
Dicamba	ND		0.20	µg/L	1	5/29/2013 10:37 PM
Dichlorprop	ND		2.0	µg/L	1	5/29/2013 10:37 PM
Dinoseb	ND		1.0	µg/L	1	5/29/2013 10:37 PM
MCPA	ND		250	µg/L	1	5/29/2013 10:37 PM
MCPP	ND		250	µg/L	1	5/29/2013 10:37 PM
Pentachlorophenol	ND		0.20	µg/L	1	5/29/2013 10:37 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	125		20-144	%REC	1	5/29/2013 10:37 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 5/23/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		11	µg/L	1	5/29/2013 03:26 AM
1,2,4-Trichlorobenzene	ND		11	µg/L	1	5/29/2013 03:26 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305474

Sample ID: SW-2-052113

Lab ID: 1305474-02

Collection Date: 5/21/2013 08:38 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		11	µg/L	1	5/29/2013 03:26 AM
1,3-Dichlorobenzene	ND		11	µg/L	1	5/29/2013 03:26 AM
1,3-Dinitrobenzene	ND		11	µg/L	1	5/29/2013 03:26 AM
1,4-Dichlorobenzene	ND		11	µg/L	1	5/29/2013 03:26 AM
1-Methylnaphthalene	ND		0.11	µg/L	1	5/29/2013 12:16 PM
1-Naphthylamine	ND		11	µg/L	1	5/29/2013 03:26 AM
2,3,4,6-Tetrachlorophenol	ND		11	µg/L	1	5/29/2013 03:26 AM
2,4,5-Trichlorophenol	ND		11	µg/L	1	5/29/2013 03:26 AM
2,4,6-Trichlorophenol	ND		11	µg/L	1	5/29/2013 03:26 AM
2,4-Dichlorophenol	ND		11	µg/L	1	5/29/2013 03:26 AM
2,4-Dimethylphenol	ND		11	µg/L	1	5/29/2013 03:26 AM
2,4-Dinitrophenol	ND		11	µg/L	1	5/29/2013 03:26 AM
2,4-Dinitrotoluene	ND		11	µg/L	1	5/29/2013 03:26 AM
2,6-Dichlorophenol	ND		11	µg/L	1	5/29/2013 03:26 AM
2,6-Dinitrotoluene	ND		11	µg/L	1	5/29/2013 03:26 AM
2-Acetylaminofluorene	ND		11	µg/L	1	5/29/2013 03:26 AM
2-Chloronaphthalene	ND		11	µg/L	1	5/29/2013 03:26 AM
2-Chlorophenol	ND		11	µg/L	1	5/29/2013 03:26 AM
2-Methylnaphthalene	0.24		0.11	µg/L	1	5/29/2013 12:16 PM
2-Methylphenol	ND		11	µg/L	1	5/29/2013 03:26 AM
2-Naphthylamine	ND		22	µg/L	1	5/29/2013 03:26 AM
2-Nitroaniline	ND		11	µg/L	1	5/29/2013 03:26 AM
2-Nitrophenol	ND		11	µg/L	1	5/29/2013 03:26 AM
2-Picoline	ND		22	µg/L	1	5/29/2013 03:26 AM
3&4-Methylphenol	ND		11	µg/L	1	5/29/2013 03:26 AM
3,3'-Dichlorobenzidine	ND		11	µg/L	1	5/29/2013 03:26 AM
3-Methylcholanthrene	ND		22	µg/L	1	5/29/2013 03:26 AM
3-Nitroaniline	ND		22	µg/L	1	5/29/2013 03:26 AM
4,6-Dinitro-2-methylphenol	ND		22	µg/L	1	5/29/2013 03:26 AM
4-Aminobiphenyl	ND		11	µg/L	1	5/29/2013 03:26 AM
4-Bromophenyl phenyl ether	ND		22	µg/L	1	5/29/2013 03:26 AM
4-Chloro-3-methylphenol	ND		22	µg/L	1	5/29/2013 03:26 AM
4-Chloroaniline	ND		11	µg/L	1	5/29/2013 03:26 AM
4-Chlorophenyl phenyl ether	ND		22	µg/L	1	5/29/2013 03:26 AM
4-Nitroaniline	ND		22	µg/L	1	5/29/2013 03:26 AM
4-Nitrophenol	ND		11	µg/L	1	5/29/2013 03:26 AM
4-Nitroquinoline 1-oxide	ND		11	µg/L	1	5/29/2013 03:26 AM
5-Nitro-o-toluidine	ND		11	µg/L	1	5/29/2013 03:26 AM
7,12-Dimethylbenz(a)anthracene	ND		11	µg/L	1	5/29/2013 03:26 AM
Acenaphthene	ND		0.11	µg/L	1	5/29/2013 12:16 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305474

Sample ID: SW-2-052113

Lab ID: 1305474-02

Collection Date: 5/21/2013 08:38 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		0.11	µg/L	1	5/29/2013 12:16 PM
Acetophenone	ND		11	µg/L	1	5/29/2013 03:26 AM
Aniline	ND		11	µg/L	1	5/29/2013 03:26 AM
Anthracene	ND		0.11	µg/L	1	5/29/2013 12:16 PM
Azobenzene	ND		11	µg/L	1	5/29/2013 03:26 AM
Benzidine	ND		11	µg/L	1	5/29/2013 03:26 AM
Benzo(a)anthracene	ND		0.11	µg/L	1	5/29/2013 12:16 PM
Benzo(a)pyrene	ND		0.11	µg/L	1	5/29/2013 12:16 PM
Benzo(b)fluoranthene	ND		0.12	µg/L	1	5/29/2013 12:16 PM
Benzo(g,h,i)perylene	ND		0.11	µg/L	1	5/29/2013 12:16 PM
Benzo(k)fluoranthene	ND		0.17	µg/L	1	5/29/2013 12:16 PM
Benzyl alcohol	ND		11	µg/L	1	5/29/2013 03:26 AM
Bis(2-chloroethoxy)methane	ND		11	µg/L	1	5/29/2013 03:26 AM
Bis(2-chloroethyl)ether	ND		11	µg/L	1	5/29/2013 03:26 AM
Bis(2-chloroisopropyl)ether	ND		11	µg/L	1	5/29/2013 03:26 AM
Bis(2-ethylhexyl)phthalate	ND		11	µg/L	1	5/29/2013 03:26 AM
Butyl benzyl phthalate	ND		11	µg/L	1	5/29/2013 03:26 AM
Carbazole	ND		11	µg/L	1	5/29/2013 12:16 PM
Chrysene	ND		0.11	µg/L	1	5/29/2013 12:16 PM
Dibenzo(a,h)anthracene	ND		0.11	µg/L	1	5/29/2013 12:16 PM
Dibenzofuran	ND		11	µg/L	1	5/29/2013 12:16 PM
Diethyl phthalate	ND		11	µg/L	1	5/29/2013 03:26 AM
Dimethyl phthalate	ND		11	µg/L	1	5/29/2013 03:26 AM
Di-n-butyl phthalate	ND		11	µg/L	1	5/29/2013 03:26 AM
Di-n-octyl phthalate	ND		11	µg/L	1	5/29/2013 03:26 AM
Dinoseb	ND		22	µg/L	1	5/29/2013 03:26 AM
Diphenylamine	ND		11	µg/L	1	5/29/2013 03:26 AM
Ethyl methanesulfonate	ND		11	µg/L	1	5/29/2013 03:26 AM
Fluoranthene	ND		0.11	µg/L	1	5/29/2013 12:16 PM
Fluorene	ND		0.11	µg/L	1	5/29/2013 12:16 PM
Hexachlorobenzene	ND		11	µg/L	1	5/29/2013 03:26 AM
Hexachlorobutadiene	ND		11	µg/L	1	5/29/2013 03:26 AM
Hexachlorocyclopentadiene	ND		11	µg/L	1	5/29/2013 03:26 AM
Hexachloroethane	ND		11	µg/L	1	5/29/2013 03:26 AM
Indeno(1,2,3-cd)pyrene	ND		0.11	µg/L	1	5/29/2013 12:16 PM
Isophorone	ND		11	µg/L	1	5/29/2013 03:26 AM
Isosafrole	ND		11	µg/L	1	5/29/2013 03:26 AM
Methapyrilene	ND		11	µg/L	1	5/29/2013 03:26 AM
Methyl methanesulfonate	ND		11	µg/L	1	5/29/2013 03:26 AM
Naphthalene	0.24		0.11	µg/L	1	5/29/2013 12:16 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305474

Sample ID: SW-2-052113

Lab ID: 1305474-02

Collection Date: 5/21/2013 08:38 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		11	µg/L	1	5/29/2013 03:26 AM
N-Nitrosodiethylamine	ND		11	µg/L	1	5/29/2013 03:26 AM
N-Nitrosodimethylamine	ND		11	µg/L	1	5/29/2013 03:26 AM
N-Nitroso-di-n-butylamine	ND		11	µg/L	1	5/29/2013 03:26 AM
N-Nitrosodi-n-propylamine	ND		11	µg/L	1	5/29/2013 03:26 AM
N-Nitrosomethylethylamine	ND		11	µg/L	1	5/29/2013 03:26 AM
N-Nitrosomorpholine	ND		11	µg/L	1	5/29/2013 03:26 AM
N-Nitrosopiperidine	ND		11	µg/L	1	5/29/2013 03:26 AM
N-Nitrosopyrrolidine	ND		11	µg/L	1	5/29/2013 03:26 AM
o-Toluidine	ND		11	µg/L	1	5/29/2013 03:26 AM
p-Dimethylaminoazobenzene	ND		11	µg/L	1	5/29/2013 03:26 AM
Pentachlorobenzene	ND		11	µg/L	1	5/29/2013 03:26 AM
Pentachloroethane	ND		11	µg/L	1	5/29/2013 03:26 AM
Pentachloronitrobenzene	ND		22	µg/L	1	5/29/2013 03:26 AM
Pentachlorophenol	ND		22	µg/L	1	5/29/2013 03:26 AM
Phenacetin	ND		22	µg/L	1	5/29/2013 03:26 AM
Phenanthrene	ND		0.11	µg/L	1	5/29/2013 12:16 PM
Phenol	ND		11	µg/L	1	5/29/2013 03:26 AM
Pyrene	ND		0.11	µg/L	1	5/29/2013 12:16 PM
Pyridine	ND		11	µg/L	1	5/29/2013 03:26 AM
Safrole	ND		11	µg/L	1	5/29/2013 03:26 AM
<i>Surr: 2,4,6-Tribromophenol</i>	75.2		35-120	%REC	1	5/29/2013 03:26 AM
<i>Surr: 2-Fluorobiphenyl</i>	78.3		38-105	%REC	1	5/29/2013 03:26 AM
<i>Surr: 2-Fluorophenol</i>	49.7		12-89	%REC	1	5/29/2013 03:26 AM
<i>Surr: 4-Terphenyl-d14</i>	77.4		42-125	%REC	1	5/29/2013 03:26 AM
<i>Surr: Nitrobenzene-d5</i>	95.7		28-120	%REC	1	5/29/2013 03:26 AM
<i>Surr: Phenol-d5</i>	44.0		10-62	%REC	1	5/29/2013 03:26 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	5/24/2013 02:24 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	5/24/2013 02:24 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	5/24/2013 02:24 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	5/24/2013 02:24 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	5/24/2013 02:24 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	5/24/2013 02:24 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	5/24/2013 02:24 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305474

Sample ID: SW-2-052113

Lab ID: 1305474-02

Collection Date: 5/21/2013 08:38 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.0	µg/L	1	5/24/2013 02:24 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	5/24/2013 02:24 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	5/24/2013 02:24 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	5/24/2013 02:24 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	5/24/2013 02:24 PM
2-Butanone	ND		5.0	µg/L	1	5/24/2013 02:24 PM
2-Chlorotoluene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
2-Hexanone	ND		5.0	µg/L	1	5/24/2013 02:24 PM
4-Chlorotoluene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Acetone	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Benzene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Bromobenzene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Bromochloromethane	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Bromodichloromethane	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Bromoform	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Bromomethane	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Carbon disulfide	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Carbon tetrachloride	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Chlorobenzene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Chloroethane	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Chloroform	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Chloromethane	ND		5.0	µg/L	1	5/24/2013 02:24 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Dibromochloromethane	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Dibromomethane	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Ethylbenzene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Isopropylbenzene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
m,p-Xylene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Methylene chloride	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Naphthalene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
n-Butylbenzene	ND		5.0	µg/L	1	5/24/2013 02:24 PM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305474

Sample ID: SW-2-052113

Lab ID: 1305474-02

Collection Date: 5/21/2013 08:38 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
o-Xylene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
sec-Butylbenzene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Styrene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
tert-Butylbenzene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Tetrachloroethene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Toluene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Trichloroethene	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Vinyl chloride	ND		2.0	µg/L	1	5/24/2013 02:24 PM
Xylenes, Total	ND		5.0	µg/L	1	5/24/2013 02:24 PM
Surr: 4-Bromofluorobenzene	95.4		61-131	%REC	1	5/24/2013 02:24 PM
Surr: Dibromofluoromethane	97.2		87-126	%REC	1	5/24/2013 02:24 PM
Surr: Toluene-d8	101		84-111	%REC	1	5/24/2013 02:24 PM

Note:

Client: AECOM

QC BATCH REPORT

Work Order: 1305474

Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

Batch ID: **16791**

Instrument ID: **GC9**

Method: **SW8082**

MBLK		Sample ID: MBLK-16791-16791			Units: µg/L		Analysis Date: 5/24/2013			
Client ID:		Run ID: GC9_130524A			SeqNo: 615464		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.50								
Aroclor 1221	ND	0.50								
Aroclor 1232	ND	0.50								
Aroclor 1242	ND	0.50								
Aroclor 1248	ND	0.50								
Aroclor 1254	ND	0.50								
Aroclor 1260	ND	0.50								
<i>Surr: Decachlorobiphenyl</i>	0.2	0	0.25	0	80	37-108	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.188	0	0.25	0	75.2	9-136	0			

LCS		Sample ID: LCS-16791-16791			Units: µg/L		Analysis Date: 5/24/2013			
Client ID:		Run ID: GC9_130524A			SeqNo: 615465		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	9.787	0.50	10	0	97.9	61-122	0			
<i>Surr: Decachlorobiphenyl</i>	0.192	0	0.25	0	76.8	37-108	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.196	0	0.25	0	78.4	9-136	0			

The following samples were analyzed in this batch:

1305474-01D	1305474-02D
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Client: AECOM
 Work Order: 1305474
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16800** Instrument ID: **HG1** Method: **SW7470A**

MBLK	Sample ID: MBLK-16800-16800			Units: µg/L		Analysis Date: 5/28/2013 05:38 PM				
Client ID:	Run ID: HG1_130528C			SeqNo: 616102		Prep Date: 5/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.50

LCS	Sample ID: LCS-16800-16800			Units: µg/L		Analysis Date: 5/28/2013 05:34 PM				
Client ID:	Run ID: HG1_130528C			SeqNo: 616100		Prep Date: 5/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 4.98 0.50 5 0 99.6 80-120 0

LCSD	Sample ID: LCSD-16800-16800			Units: µg/L		Analysis Date: 5/28/2013 05:36 PM				
Client ID:	Run ID: HG1_130528C			SeqNo: 616101		Prep Date: 5/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 4.87 0.50 5 0 97.4 80-120 4.98 2.23 20

MS	Sample ID: 1305448-01C MS			Units: µg/L		Analysis Date: 5/28/2013 05:42 PM				
Client ID:	Run ID: HG1_130528C			SeqNo: 616104		Prep Date: 5/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 4.68 0.50 5 -0.04 94.4 75-125 0

MSD	Sample ID: 1305448-01C MSD			Units: µg/L		Analysis Date: 5/28/2013 05:44 PM				
Client ID:	Run ID: HG1_130528C			SeqNo: 616105		Prep Date: 5/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 4.89 0.50 5 -0.04 98.6 75-125 4.68 4.39 20

The following samples were analyzed in this batch: 1305474-01B 1305474-02B

Client: AECOM
Work Order: 1305474
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16775** Instrument ID: **ICP3** Method: **SW6010B**

MBLK		Sample ID: mblk-16775-16775		Units: mg/L		Analysis Date: 5/22/2013 05:51 PM				
Client ID:		Run ID: ICP3_130522D		SeqNo: 613266		Prep Date: 5/22/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.20								
Antimony	ND	0.030								
Arsenic	ND	0.010								
Barium	ND	0.10								
Beryllium	ND	0.00040								
Cadmium	ND	0.0050								
Calcium	ND	0.20								
Chromium	ND	0.020								
Cobalt	ND	0.025								
Copper	ND	0.025								
Iron	ND	0.20								
Lead	ND	0.015								
Magnesium	ND	0.20								
Manganese	ND	0.050								
Nickel	ND	0.050								
Potassium	ND	0.20								
Selenium	ND	0.030								
Silver	ND	0.010								
Sodium	ND	0.20								
Thallium	ND	0.0020								
Vanadium	ND	0.050								
Zinc	ND	0.050								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305474
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16775 Instrument ID: ICP3 Method: SW6010B

LCS		Sample ID: Ics-16775-16775			Units: mg/L		Analysis Date: 5/22/2013 06:10 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 613267		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.119	0.20	1.1	0	102	80-120	0			
Antimony	1.017	0.030	1.1	0	92.5	80-120	0			
Arsenic	1.042	0.010	1.1	0	94.8	80-120	0			
Barium	1.1	0.10	1.1	0	100	80-120	0			
Beryllium	0.9937	0.00040	1.1	0	90.3	80-120	0			
Cadmium	1.076	0.0050	1.1	0	97.8	80-120	0			
Calcium	1.018	0.20	1.1	0	92.5	80-120	0			
Chromium	1.063	0.020	1.1	0	96.6	80-120	0			
Cobalt	1.049	0.025	1.1	0	95.4	80-120	0			
Copper	1.037	0.025	1.1	0	94.2	80-120	0			
Iron	1.021	0.20	1.1	0	92.8	80-120	0			
Lead	1.093	0.015	1.1	0	99.4	80-120	0			
Magnesium	1.019	0.20	1.1	0	92.7	80-120	0			
Manganese	0.98	0.050	1.1	0	89.1	80-120	0			
Nickel	1.026	0.050	1.1	0	93.3	80-120	0			
Potassium	10.45	0.20	11	0	95	80-120	0			
Selenium	1.057	0.030	1.1	0	96.1	80-120	0			
Silver	1.072	0.010	1.1	0	97.5	80-120	0			
Sodium	1.055	0.20	1.1	0	95.9	80-120	0			
Thallium	1.01	0.0020	1.1	0	91.8	80-120	0			
Vanadium	0.97	0.050	1.1	0	88.2	80-120	0			
Zinc	1.028	0.050	1.1	0	93.5	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305474
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16775 Instrument ID: ICP3 Method: SW6010B

LCSD	Sample ID: Icsd-16775-16775			Units: mg/L		Analysis Date: 5/22/2013 06:16 PM				
Client ID:	Run ID: ICP3_130522D			SeqNo: 613268		Prep Date: 5/22/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.076	0.20	1.1	0	97.8	80-120	1.119	3.88	20	
Antimony	1.022	0.030	1.1	0	92.9	80-120	1.017	0.442	20	
Arsenic	1.06	0.010	1.1	0	96.4	80-120	1.042	1.66	20	
Barium	1.116	0.10	1.1	0	102	80-120	1.1	1.49	20	
Beryllium	0.9925	0.00040	1.1	0	90.2	80-120	0.9937	0.122	20	
Cadmium	1.078	0.0050	1.1	0	98	80-120	1.076	0.123	20	
Calcium	1.016	0.20	1.1	0	92.4	80-120	1.018	0.162	20	
Chromium	1.074	0.020	1.1	0	97.6	80-120	1.063	1.05	20	
Cobalt	1.053	0.025	1.1	0	95.7	80-120	1.049	0.304	20	
Copper	1.046	0.025	1.1	0	95.1	80-120	1.037	0.877	20	
Iron	1.029	0.20	1.1	0	93.5	80-120	1.021	0.751	20	
Lead	1.098	0.015	1.1	0	99.9	80-120	1.093	0.482	20	
Magnesium	1.016	0.20	1.1	0	92.4	80-120	1.019	0.313	20	
Manganese	0.9814	0.050	1.1	0	89.2	80-120	0.98	0.146	20	
Nickel	1.037	0.050	1.1	0	94.3	80-120	1.026	1.03	20	
Potassium	10.42	0.20	11	0	94.8	80-120	10.45	0.232	20	
Selenium	1.066	0.030	1.1	0	96.9	80-120	1.057	0.902	20	
Silver	1.082	0.010	1.1	0	98.4	80-120	1.072	0.919	20	
Sodium	1.095	0.20	1.1	0	99.6	80-120	1.055	3.74	20	
Thallium	1.023	0.0020	1.1	0	93	80-120	1.01	1.23	20	
Vanadium	0.9798	0.050	1.1	0	89.1	80-120	0.97	1	20	
Zinc	1.038	0.050	1.1	0	94.3	80-120	1.028	0.916	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305474
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16775 Instrument ID: ICP3 Method: SW6010B

MS	Sample ID: 1305472-01f ms			Units: mg/L		Analysis Date: 5/22/2013 06:35 PM				
Client ID:	Run ID: ICP3_130522D			SeqNo: 613271		Prep Date: 5/22/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.155	0.20	1.1	-0.008719	106	75-125	0			
Antimony	1.032	0.030	1.1	0.003116	93.5	75-125	0			
Arsenic	1.084	0.010	1.1	-0.0002893	98.6	75-125	0			
Barium	1.068	0.10	1.1	0.02482	94.8	75-125	0			
Beryllium	1.03	0.00040	1.1	-0.00005097	93.6	75-125	0			
Cadmium	1.059	0.0050	1.1	-0.00004726	96.3	75-125	0			
Calcium	498.7	0.20	1.1	503.8	-460	75-125	0			SO
Chromium	1.019	0.020	1.1	0.002548	92.4	75-125	0			
Cobalt	0.9535	0.025	1.1	-0.0001107	86.7	75-125	0			
Copper	1.001	0.025	1.1	0.0007931	90.9	75-125	0			
Iron	1.108	0.20	1.1	0.06811	94.5	75-125	0			
Lead	0.9811	0.015	1.1	0.004088	88.8	75-125	0			
Magnesium	58.67	0.20	1.1	58.49	17	75-125	0			SO
Manganese	1.022	0.050	1.1	0.0198	91.1	75-125	0			
Nickel	0.9337	0.050	1.1	0.0004301	84.8	75-125	0			
Potassium	13.97	0.20	11	2.805	102	75-125	0			
Selenium	1.093	0.030	1.1	0.001659	99.2	75-125	0			
Silver	1.055	0.010	1.1	-0.0008612	96	75-125	0			
Sodium	14.68	0.20	1.1	13.73	87	75-125	0			O
Thallium	0.8747	0.0020	1.1	0.0007917	79.4	75-125	0			
Vanadium	1.012	0.050	1.1	-0.004051	92.4	75-125	0			
Zinc	0.9898	0.050	1.1	0.03115	87.1	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305474
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16775 Instrument ID: ICP3 Method: SW6010B

MSD		Sample ID: 1305472-01f msd			Units: mg/L		Analysis Date: 5/22/2013 06:42 PM			
Client ID:		Run ID: ICP3_130522D			SeqNo: 613272		Prep Date: 5/22/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.179	0.20	1.1	-0.008719	108	75-125	1.155	2.07	20	
Antimony	1.024	0.030	1.1	0.003116	92.8	75-125	1.032	0.813	20	
Arsenic	1.076	0.010	1.1	-0.0002893	97.9	75-125	1.084	0.713	20	
Barium	1.064	0.10	1.1	0.02482	94.5	75-125	1.068	0.32	20	
Beryllium	1.016	0.00040	1.1	-0.00005097	92.3	75-125	1.03	1.39	20	
Cadmium	1.059	0.0050	1.1	-0.00004726	96.3	75-125	1.059	0.0104	20	
Calcium	500.9	0.20	1.1	503.8	-260	75-125	498.7	0.44	20	SO
Chromium	1.008	0.020	1.1	0.002548	91.4	75-125	1.019	1.11	20	
Cobalt	0.9495	0.025	1.1	-0.0001107	86.3	75-125	0.9535	0.416	20	
Copper	0.9876	0.025	1.1	0.0007931	89.7	75-125	1.001	1.36	20	
Iron	1.095	0.20	1.1	0.06811	93.3	75-125	1.108	1.18	20	
Lead	0.9744	0.015	1.1	0.004088	88.2	75-125	0.9811	0.686	20	
Magnesium	58.37	0.20	1.1	58.49	-11	75-125	58.67	0.526	20	SO
Manganese	0.9957	0.050	1.1	0.0198	88.7	75-125	1.022	2.56	20	
Nickel	0.9276	0.050	1.1	0.0004301	84.3	75-125	0.9337	0.65	20	
Potassium	14.1	0.20	11	2.805	103	75-125	13.97	0.94	20	
Selenium	1.087	0.030	1.1	0.001659	98.7	75-125	1.093	0.535	20	
Silver	1.056	0.010	1.1	-0.0008612	96	75-125	1.055	0.0625	20	
Sodium	14.76	0.20	1.1	13.73	94	75-125	14.68	0.523	20	O
Thallium	0.8667	0.0020	1.1	0.0007917	78.7	75-125	0.8747	0.922	20	
Vanadium	1.002	0.050	1.1	-0.004051	91.5	75-125	1.012	1.02	20	
Zinc	0.9878	0.050	1.1	0.03115	87	75-125	0.9898	0.2	20	

The following samples were analyzed in this batch:

1305474-01b	1305474-02b
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305474
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99701a** Instrument ID: **SUB** Method: **SW8081A**

MBLK		Sample ID: MBLK-R99701a			Units: µg/L		Analysis Date: 5/30/2013 02:02 PM			
Client ID:		Run ID: SUB_130530C			SeqNo: 624660		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	0.050								
4,4'-DDE	ND	0.050								
4,4'-DDT	ND	0.050								
Aldrin	ND	0.050								
alpha Chlordane	ND	0.050								
alpha-BHC	ND	0.050								
beta-BHC	ND	0.050								
delta-BHC	ND	0.050								
Dieldrin	ND	0.050								
Endosulfan I	ND	0.050								
Endosulfan II	ND	0.050								
Endosulfan sulfate	ND	0.050								
Endrin	ND	0.050								
Endrin aldehyde	ND	0.050								
Endrin ketone	ND	0.050								
gamma Chlordane	ND	0.050								
gamma-BHC (Lindane)	ND	0.050								
Heptachlor	ND	0.050								
Heptachlor epoxide	ND	0.050								
Methoxychlor	ND	0.050								
Toxaphene	ND	1.0								
<i>Surr: Decachlorobiphenyl</i>	55.3	0	100	0	55.3	25-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	54.1	0	100	0	54.1	20-180	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305474
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99701a** Instrument ID: **SUB** Method: **SW8081A**

LCS		Sample ID: LCS-R99701a			Units: µg/L		Analysis Date: 5/30/2013 02:30 PM			
Client ID:		Run ID: SUB_130530C			SeqNo: 624661		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.306	0.050	0.5	0	61.2	40-125	0			
4,4'-DDE	0.307	0.050	0.5	0	61.4	40-120	0			
4,4'-DDT	0.334	0.050	0.5	0	66.8	40-125	0			
Aldrin	0.286	0.050	0.5	0	57.2	30-110	0			
alpha Chlordane	0.329	0.050	0.5	0	65.8	40-120	0			
alpha-BHC	0.266	0.050	0.5	0	53.2	30-120	0			
beta-BHC	0.298	0.050	0.5	0	59.6	30-115	0			
delta-BHC	0.288	0.050	0.5	0	57.6	35-130	0			
Dieldrin	0.311	0.050	0.5	0	62.2	40-125	0			
Endosulfan I	0.243	0.050	0.5	0	48.6	30-110	0			
Endosulfan II	0.26	0.050	0.5	0	52	30-110	0			
Endosulfan sulfate	0.361	0.050	0.5	0	72.2	35-125	0			
Endrin	0.295	0.050	0.5	0	59	35-120	0			
Endrin aldehyde	0.254	0.050	0.5	0	50.8	30-120	0			
Endrin ketone	0.33	0.050	0.5	0	66	40-125	0			
gamma Chlordane	0.328	0.050	0.5	0	65.6	40-120	0			
gamma-BHC (Lindane)	0.267	0.050	0.5	0	53.4	30-120	0			
Heptachlor	0.31	0.050	0.5	0	62	35-115	0			
Heptachlor epoxide	0.329	0.050	0.5	0	65.8	35-115	0			
Methoxychlor	0.371	0.050	0.5	0	74.2	30-150	0			
<i>Surr: Decachlorobiphenyl</i>	45.2	0	100	0	45.2	25-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	47	0	100	0	47	20-180	0			

LCS		Sample ID: LCS-R99701a			Units: µg/L		Analysis Date: 5/30/2013 02:30 PM			
Client ID:		Run ID: SUB_130530C			SeqNo: 624665		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Toxaphene	1.78	1.0	2	0	89	41-126	0			
<i>Surr: Decachlorobiphenyl</i>	49.1	0	100	0	49.1	25-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	53.7	0	100	0	53.7	20-180	0			

The following samples were analyzed in this batch: 1305474-01E 1305474-02E

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305474
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99701b** Instrument ID: **SUB** Method: **SW8151**

MBLK		Sample ID: MB-R99701-R99701b			Units: µg/L		Analysis Date: 5/29/2013 04:33 PM			
Client ID:		Run ID: SUB_130530C			SeqNo: 624666		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	ND	0.20								
2,4,5-TP (Silvex)	ND	0.20								
2,4-D	ND	2.0								
2,4-DB	ND	2.0								
Dalapon	ND	5.0								
Dicamba	ND	0.20								
Dichlorprop	ND	2.0								
Dinoseb	ND	1.0								
MCPA	ND	250								
MCPP	ND	250								
Pentachlorophenol	ND	0.20								
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	101	0	100	0	101	20-144	0			

LCS		Sample ID: LCS-R99701-R99701b			Units: µg/L		Analysis Date: 5/29/2013 04:59 PM			
Client ID:		Run ID: SUB_130530C			SeqNo: 624667		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	0.329	0.20	0.5	0	65.8	30-110	0			
2,4,5-TP (Silvex)	0.355	0.20	0.5	0	71	30-110	0			
2,4-D	3.08	2.0	5	0	61.6	30-100	0			
2,4-DB	2.55	2.0	5	0	51	30-110	0			
Dalapon	ND	5.0	12.5	0	32.7	10-100	0			
Dicamba	0.476	0.20	0.5	0	95.2	30-135	0			
Dichlorprop	4.2	2.0	5	0	84	25-115	0			
Dinoseb	1.72	1.0	2.5	0	68.8	30-105	0			
MCPA	320	250	500	0	64	25-100	0			
MCPP	346	250	500	0	69.2	30-120	0			
Pentachlorophenol	0.329	0.20	0.5	0	65.8	30-105	0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	107	0	100	0	107	20-144	0			

The following samples were analyzed in this batch:

1305474-01F	1305474-02F
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305474
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16805** Instrument ID: **SVMS3** Method: **SW8270C**

MBLK		Sample ID: mblk-16805-16805		Units: µg/L		Analysis Date: 5/28/2013 10:10 PM				
Client ID:		Run ID: SVMS3_130528A		SeqNo: 617306		Prep Date: 5/23/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.10								
Acenaphthene	ND	0.10								
Acenaphthylene	ND	0.10								
Anthracene	ND	0.10								
Benzo(a)anthracene	ND	0.10								
Benzo(a)pyrene	ND	0.10								
Benzo(b)fluoranthene	ND	0.11								
Benzo(g,h,i)perylene	ND	0.10								
Benzo(k)fluoranthene	ND	0.16								
Carbazole	ND	10								
Chrysene	ND	0.10								
Dibenzo(a,h)anthracene	ND	0.10								
Dibenzofuran	ND	10								
Fluoranthene	ND	0.10								
Fluorene	ND	0.10								
Indeno(1,2,3-cd)pyrene	ND	0.10								
Naphthalene	ND	0.10								
Phenanthrene	ND	0.10								
Pyrene	ND	0.10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305474
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805 Instrument ID: SVMS3 Method: SW8270C

MBLK		Sample ID: mblk-16805-16805			Units: µg/L		Analysis Date: 5/28/2013 11:15 PM			
Client ID:		Run ID: SVMS2_130528A			SeqNo: 617374		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	10								
1,2,4-Trichlorobenzene	ND	10								
1,2-Dichlorobenzene	ND	10								
1,3-Dichlorobenzene	ND	10								
1,3-Dinitrobenzene	ND	10								
1,4-Dichlorobenzene	ND	10								
1-Naphthylamine	ND	10								
2,3,4,6-Tetrachlorophenol	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
2,4-Dichlorophenol	ND	10								
2,4-Dimethylphenol	ND	10								
2,4-Dinitrophenol	ND	10								
2,4-Dinitrotoluene	ND	10								
2,6-Dichlorophenol	ND	10								
2,6-Dinitrotoluene	ND	10								
2-Acetylaminofluorene	ND	10								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	10								
2-Methylphenol	ND	10								
2-Naphthylamine	ND	20								
2-Nitroaniline	ND	10								
2-Nitrophenol	ND	10								
2-Picoline	ND	20								
3&4-Methylphenol	ND	10								
3,3'-Dichlorobenzidine	ND	10								
3-Methylcholanthrene	ND	20								
3-Nitroaniline	ND	20								
4,6-Dinitro-2-methylphenol	ND	20								
4-Aminobiphenyl	ND	10								
4-Bromophenyl phenyl ether	ND	20								
4-Chloro-3-methylphenol	ND	20								
4-Chloroaniline	ND	10								
4-Chlorophenyl phenyl ether	ND	20								
4-Nitroaniline	ND	20								
4-Nitrophenol	ND	10								
4-Nitroquinoline 1-oxide	ND	10								
5-Nitro-o-toluidine	ND	10								
7,12-Dimethylbenz(a)anthracene	ND	10								
Acetophenone	ND	10								
Aniline	ND	10								
Azobenzene	ND	10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305474
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805	Instrument ID: SVMS3	Method: SW8270C						
Benzidine	ND	10						
Benzyl alcohol	ND	10						
Bis(2-chloroethoxy)methane	ND	10						
Bis(2-chloroethyl)ether	ND	10						
Bis(2-chloroisopropyl)ether	ND	10						
Bis(2-ethylhexyl)phthalate	ND	10						
Butyl benzyl phthalate	ND	10						
Diethyl phthalate	ND	10						
Dimethyl phthalate	ND	10						
Di-n-butyl phthalate	ND	10						
Di-n-octyl phthalate	ND	10						
Dinoseb	ND	20						
Diphenylamine	ND	10						
Ethyl methanesulfonate	ND	10						
Hexachlorobenzene	ND	10						
Hexachlorobutadiene	ND	10						
Hexachlorocyclopentadiene	ND	10						
Hexachloroethane	ND	10						
Isophorone	ND	10						
Isosafrole	ND	10						
Methapyrilene	ND	10						
Methyl methanesulfonate	ND	10						
Nitrobenzene	ND	10						
N-Nitrosodiethylamine	ND	10						
N-Nitrosodimethylamine	ND	10						
N-Nitroso-di-n-butylamine	ND	10						
N-Nitrosodi-n-propylamine	ND	10						
N-Nitrosomethylethylamine	ND	10						
N-Nitrosomorpholine	ND	10						
N-Nitrosopiperidine	ND	10						
N-Nitrosopyrrolidine	ND	10						
o-Toluidine	ND	10						
p-Dimethylaminoazobenzene	ND	10						
Pentachlorobenzene	ND	10						
Pentachloroethane	ND	10						
Pentachloronitrobenzene	ND	20						
Pentachlorophenol	ND	20						
Phenacetin	ND	20						
Phenol	ND	10						
Pyridine	ND	10						
Safrole	ND	10						
<i>Surr: 2,4,6-Tribromophenol</i>	73.57	0	100	0	73.6	35-120	0	
<i>Surr: 2-Fluorobiphenyl</i>	30.74	0	50	0	61.5	38-105	0	
<i>Surr: 2-Fluorophenol</i>	46.59	0	100	0	46.6	12-89	0	
<i>Surr: 4-Terphenyl-d14</i>	40.18	0	50	0	80.4	42-125	0	
<i>Surr: Nitrobenzene-d5</i>	34	0	50	0	68	28-120	0	
<i>Surr: Phenol-d5</i>	43.93	0	100	0	43.9	10-62	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305474
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805 Instrument ID: SVMS3 Method: SW8270C

LCS		Sample ID: Ics-16805-16805			Units: µg/L		Analysis Date: 5/28/2013 11:51 PM			
Client ID:		Run ID: SVMS2_130528A			SeqNo: 617375		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	33.02	10	50	0	66	49.8-102	0			
1,4-Dichlorobenzene	37.78	10	50	0	75.6	44-92.8	0			
2,4-Dinitrotoluene	48.45	10	50	0	96.9	61.3-108	0			
2-Chlorophenol	43.64	10	50	0	87.3	33.3-89.9	0			
4-Chloro-3-methylphenol	45.03	20	50	0	90.1	39.3-96.6	0			
4-Nitrophenol	38.92	10	50	0	77.8	17.3-80.3	0			
Acenaphthene	39.27	0.10	50	0	78.5	40.1-123	0			
Acenaphthylene	39.16	0.10	50	0	78.3	59.3-126	0			
Anthracene	41.25	0.10	50	0	82.5	62.1-110	0			
Benzo(a)anthracene	41.54	0.10	50	0	83.1	62.3-118	0			
Benzo(a)pyrene	45.53	0.10	50	0	91.1	69.6-111	0			
Benzo(b)fluoranthene	41.92	0.11	50	0	83.8	60.1-94.5	0			
Benzo(g,h,i)perylene	40.81	0.10	50	0	81.6	66.8-138	0			
Benzo(k)fluoranthene	45.76	0.16	50	0	91.5	68.8-136	0			
Carbazole	54.36	10	50	0	109	70.8-115	0			
Chrysene	41.61	0.10	50	0	83.2	63.1-116	0			
Dibenzo(a,h)anthracene	44.21	0.10	50	0	88.4	47.1-168	0			
Fluoranthene	44	0.10	50	0	88	58.1-117	0			
Fluorene	40.68	0.10	50	0	81.4	59.5-120	0			
Indeno(1,2,3-cd)pyrene	45.14	0.10	50	0	90.3	56.3-141	0			
Naphthalene	34.42	0.10	50	0	68.8	46.6-104	0			
N-Nitrosodi-n-propylamine	58.06	10	50	0	116	54.8-121	0			
Pentachlorophenol	51.41	20	50	0	103	34.1-130	0			
Phenanthrene	42.02	0.10	50	0	84	63-118	0			
Phenol	28.08	10	50	0	56.2	17.5-68	0			
Pyrene	41.51	0.10	50	0	83	42-125	0			
Surr: 2,4,6-Tribromophenol	71.21	0	100	0	71.2	35-120	0			
Surr: 2-Fluorobiphenyl	33.67	0	50	0	67.3	38-105	0			
Surr: 2-Fluorophenol	73.28	0	100	0	73.3	12-89	0			
Surr: 4-Terphenyl-d14	39.17	0	50	0	78.3	42-125	0			
Surr: Nitrobenzene-d5	48.72	0	50	0	97.4	28-120	0			
Surr: Phenol-d5	51.65	0	100	0	51.6	10-62	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305474
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805 Instrument ID: SVMS3 Method: SW8270C

MS		Sample ID: 1305506-01c ms				Units: µg/L		Analysis Date: 5/29/2013 12:27 PM		
Client ID:		Run ID: SVMS2_130528A				SeqNo: 617385		Prep Date: 5/23/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	33.86	10	50	0	67.7		0			
2,4-Dinitrotoluene	48.79	10	50	0	97.6		0			
2-Chlorophenol	54.91	10	50	0	110		0			
4-Chloro-3-methylphenol	52.94	20	50	0	106		0			
4-Nitrophenol	23.45	10	50	0	46.9		0			
Acenaphthene	41.59	0.10	50	0	83.2		0			
Acenaphthylene	41.52	0.10	50	0	83		0			
Anthracene	41.1	0.10	50	0	82.2		0			
Benzo(a)anthracene	41.74	0.10	50	0	83.5		0			
Benzo(a)pyrene	45.79	0.10	50	0	91.6		0			
Benzo(b)fluoranthene	41.42	0.11	50	0	82.8		0			
Benzo(g,h,i)perylene	41.68	0.10	50	0	83.4		0			
Benzo(k)fluoranthene	45.93	0.16	50	0	91.9		0			
Carbazole	52.43	10	50	0	105		0			
Chrysene	41.53	0.10	50	0	83.1		0			
Dibenzo(a,h)anthracene	43.96	0.10	50	0	87.9		0			
Dibenzofuran	46.46	10	50	0	92.9		0			
Fluoranthene	42.91	0.10	50	0	85.8		0			
Fluorene	41.98	0.10	50	0	84		0			
Indeno(1,2,3-cd)pyrene	44.13	0.10	50	0	88.3		0			
Naphthalene	40.98	0.10	50	0	82		0			
N-Nitrosodi-n-propylamine	55.58	10	50	0	111		0			
Pentachlorophenol	52.03	20	50	0	104		0			
Phenol	28.99	10	50	0	58		0			
Pyrene	40.87	0.10	50	0	81.7		0			
Surr: 2,4,6-Tribromophenol	73.67	0	100	0	73.7	35-120	0			
Surr: 2-Fluorobiphenyl	37.14	0	50	0	74.3	38-105	0			
Surr: 2-Fluorophenol	74.17	0	100	0	74.2	12-89	0			
Surr: 4-Terphenyl-d14	39.2	0	50	0	78.4	42-125	0			
Surr: Nitrobenzene-d5	58.26	0	50	0	117	28-120	0			
Surr: Phenol-d5	47.67	0	100	0	47.7	10-62	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305474
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805 Instrument ID: SVMS3 Method: SW8270C

MSD		Sample ID: 1305506-01c msd				Units: µg/L		Analysis Date: 5/29/2013 01:03 AM		
Client ID:		Run ID: SVMS2_130528A				SeqNo: 617376		Prep Date: 5/23/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	38.57	10	50	0	77.1		41.34	6.93		
1,4-Dichlorobenzene	46.29	10	50	0	92.6		33.86	31		
2,4-Dinitrotoluene	47.19	10	50	0	94.4		48.79	3.33		
2-Chlorophenol	66.34	10	50	0	133		54.91	18.9		
4-Chloro-3-methylphenol	50.78	20	50	0	102		52.94	4.17		
4-Nitrophenol	22.65	10	50	0	45.3		23.45	3.47		
Acenaphthene	40.65	0.10	50	0	81.3		41.59	2.29		
Acenaphthylene	40.01	0.10	50	0	80		41.52	3.7		
Anthracene	39.73	0.10	50	0	79.5		41.1	3.39		
Benzo(a)anthracene	51.63	0.10	50	0	103		41.74	21.2		
Benzo(a)pyrene	53.55	0.10	50	0	107		45.79	15.6		
Benzo(b)fluoranthene	43.41	0.11	50	0	86.8		41.42	4.69		
Benzo(g,h,i)perylene	41.13	0.10	50	0	82.3		41.68	1.33		
Benzo(k)fluoranthene	50.78	0.16	50	0	102		45.93	10		
Carbazole	46.99	10	50	0	94		52.43	10.9		
Chrysene	52.36	0.10	50	0	105		41.53	23.1		
Dibenzo(a,h)anthracene	47.18	0.10	50	0	94.4		43.96	7.07		
Dibenzofuran	44.84	10	50	0	89.7		46.46	3.55		
Fluoranthene	40.28	0.10	50	0	80.6		42.91	6.32		
Fluorene	40.66	0.10	50	0	81.3		41.98	3.19		
Indeno(1,2,3-cd)pyrene	43.13	0.10	50	0	86.3		44.13	2.29		
Naphthalene	38.31	0.10	50	0	76.6		40.98	6.73		
N-Nitrosodi-n-propylamine	50.39	10	50	0	101		55.58	9.8		
Pentachlorophenol	49.51	20	50	0	99		52.03	4.96		
Phenol	27.35	10	50	0	54.7		28.99	5.82		
Pyrene	35.64	0.10	50	0	71.3		40.87	13.7		
<i>Surr: 2,4,6-Tribromophenol</i>	68.78	0	100	0	68.8	35-120	73.67	6.87		
<i>Surr: 2-Fluorobiphenyl</i>	35.94	0	50	0	71.9	38-105	37.14	3.28		
<i>Surr: 2-Fluorophenol</i>	63.44	0	100	0	63.4	12-89	74.17	15.6		
<i>Surr: 4-Terphenyl-d14</i>	36.65	0	50	0	73.3	42-125	39.2	6.72		
<i>Surr: Nitrobenzene-d5</i>	50.55	0	50	0	101	28-120	58.26	14.2		
<i>Surr: Phenol-d5</i>	55.24	0	100	0	55.2	10-62	47.67	14.7		

The following samples were analyzed in this batch:

1305474-01c	1305474-02c
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305474
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99281** Instrument ID: **VMS1** Method: **SW8260**

MBLK		Sample ID: MBLK-R99281			Units: µg/L		Analysis Date: 5/24/2013 08:14 AM			
Client ID:		Run ID: VMS1_130524A			SeqNo: 614190		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305474
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99281	Instrument ID: VMS1	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	2.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	49.14	0	50	0	98.3	61-131	0
<i>Surr: Dibromofluoromethane</i>	48.93	0	50	0	97.9	87-126	0
<i>Surr: Toluene-d8</i>	49.75	0	50	0	99.5	84-111	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305474
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99281** Instrument ID: **VMS1** Method: **SW8260**

LCS		Sample ID: LCS-R99281			Units: µg/L		Analysis Date: 5/24/2013 08:43 AM			
Client ID:		Run ID: VMS1_130524A			SeqNo: 614191		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	53.76	5.0	50	0	108	48.4-140	0			
1,1-Dichloroethene	51.47	5.0	50	0	103	45.5-150	0			
1,2-Dichloroethane	54.24	5.0	50	0	108	46.5-141	0			
1,3-Dichlorobenzene	49.91	5.0	50	0	99.8	42.5-133	0			
1,4-Dichlorobenzene	50.38	5.0	50	0	101	38.9-136	0			
Benzene	52.64	5.0	50	0	105	50.7-134	0			
Carbon tetrachloride	55.29	5.0	50	0	111	45.5-143	0			
Chlorobenzene	50.43	5.0	50	0	101	45-133	0			
Chloroform	52.48	5.0	50	0	105	52.4-136	0			
cis-1,2-Dichloroethene	52.5	5.0	50	0	105	49.7-138	0			
Ethylbenzene	51.09	5.0	50	0	102	37.8-145	0			
m,p-Xylene	103.5	5.0	100	0	103	25.1-163	0			
Styrene	53.93	5.0	50	0	108	26.3-172	0			
Tetrachloroethene	50.6	5.0	50	0	101	37.3-139	0			
Toluene	51.85	5.0	50	0	104	44-135	0			
Trichloroethene	53.71	5.0	50	0	107	46.9-134	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.84	0	50	0	99.7	61-131	0			
<i>Surr: Dibromofluoromethane</i>	50.25	0	50	0	100	87-126	0			
<i>Surr: Toluene-d8</i>	50.73	0	50	0	101	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305474
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99281** Instrument ID: **VMS1** Method: **SW8260**

MS		Sample ID: 1305448-02A MS			Units: µg/L		Analysis Date: 5/24/2013 09:13 AM			
Client ID:		Run ID: VMS1_130524A			SeqNo: 614192		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	44.24	5.0	50	0	88.5	47.4-141	0			
1,1-Dichloroethene	43.09	5.0	50	0	86.2	56.3-140	0			
1,2-Dichloroethane	42.66	5.0	50	0	85.3	50.1-139	0			
1,3-Dichlorobenzene	43.24	5.0	50	0	86.5	53-127	0			
1,4-Dichlorobenzene	42.38	5.0	50	0	84.8	53.4-129	0			
Benzene	43.47	5.0	50	0	86.9	52.8-136	0			
Carbon tetrachloride	46.94	5.0	50	0	93.9	48.1-141	0			
Chlorobenzene	42.56	5.0	50	0	85.1	52.4-132	0			
Chloroform	43.01	5.0	50	0	86	52.9-136	0			
cis-1,2-Dichloroethene	43.48	5.0	50	0	87	63.5-128	0			
Ethylbenzene	43.37	5.0	50	0	86.7	46.5-146	0			
m,p-Xylene	88.03	5.0	100	0	88	38.2-167	0			
Styrene	38.71	5.0	50	0	77.4	20.9-184	0			
Tetrachloroethene	42.57	5.0	50	0	85.1	55.2-134	0			
Toluene	44.01	5.0	50	0	88	45.1-138	0			
Trichloroethene	44.17	5.0	50	0	88.3	52.8-133	0			
Surr: 4-Bromofluorobenzene	49.97	0	50	0	99.9	61-131	0			
Surr: Dibromofluoromethane	49.46	0	50	0	98.9	87-126	0			
Surr: Toluene-d8	50.43	0	50	0	101	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305474
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99281** Instrument ID: **VMS1** Method: **SW8260**

MSD		Sample ID: 1305448-02A MSD			Units: µg/L		Analysis Date: 5/24/2013 11:24 AM			
Client ID:		Run ID: VMS1_130524A			SeqNo: 614258		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	41.45	5.0	50	0	82.9	47.4-141	44.24	6.51	20	
1,1-Dichloroethene	41.18	5.0	50	0	82.4	56.3-140	43.09	4.53	20	
1,2-Dichloroethane	42.07	5.0	50	0	84.1	50.1-139	42.66	1.39	20	
1,3-Dichlorobenzene	39.61	5.0	50	0	79.2	53-127	43.24	8.76	20	
1,4-Dichlorobenzene	39.99	5.0	50	0	80	53.4-129	42.38	5.8	20	
Benzene	42.26	5.0	50	0	84.5	52.8-136	43.47	2.82	20	
Carbon tetrachloride	42.22	5.0	50	0	84.4	48.1-141	46.94	10.6	20	
Chlorobenzene	40.4	5.0	50	0	80.8	52.4-132	42.56	5.21	20	
Chloroform	41.55	5.0	50	0	83.1	52.9-136	43.01	3.45	20	
cis-1,2-Dichloroethene	40.83	5.0	50	0	81.7	63.5-128	43.48	6.29	20	
Ethylbenzene	40.62	5.0	50	0	81.2	46.5-146	43.37	6.55	20	
m,p-Xylene	82.82	5.0	100	0	82.8	38.2-167	88.03	6.1	20	
Styrene	43.92	5.0	50	0	87.8	20.9-184	38.71	12.6	20	
Tetrachloroethene	40.01	5.0	50	0	80	55.2-134	42.57	6.2	20	
Toluene	41.65	5.0	50	0	83.3	45.1-138	44.01	5.51	20	
Trichloroethene	41.47	5.0	50	0	82.9	52.8-133	44.17	6.31	20	
<i>Surr: 4-Bromofluorobenzene</i>	48.41	0	50	0	96.8	61-131	49.97	3.17		
<i>Surr: Dibromofluoromethane</i>	50.9	0	50	0	102	87-126	49.46	2.87		
<i>Surr: Toluene-d8</i>	50.74	0	50	0	101	84-111	50.43	0.613		

The following samples were analyzed in this batch:

1305474-01A	1305474-02A
-------------	-------------

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
WorkOrder: 1305474

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/L	
mg/L	

Sample Receipt Checklist

Client Name: AECOM-CINCINNATI

Date/Time Received: 21-May-13 00:00

Work Order: 1305474

Received by: CEG

Checklist completed by: Chris Gibson 22-May-13
eSignature Date

Reviewed by: Chris Gibson 30-May-13
eSignature Date

Matrices: water

Carrier name: Client

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 2.7

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

[Empty text box for comments]

CorrectiveAction:

[Empty text box for corrective action]



ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

Page 1 of 1

1305474

Customer Information				Project Information				ALS Project Manager:															
ALS Work Order #:				Parameter/Method Request for Analysis																			
Purchase Order	48496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	VOCs - 8260	B	Metals - 6010	C	SVOCs - 8270	D	PCBs - 8082	E	Pesticides - 8081	F	Herbicides - 8151	G	Hardness - SM 2340	H		I		J	
Work Order		Project Number	60289534	B		C		D		E		F		G		H		I		J			
Company Name	AECOM	Bill To Company	AECOM	C		D		E		F		G		H		I		J					
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker	D		E		F		G		H		I		J							
Address	4219 Malsbury Road	Address	4219 Malsbury Road	E		F		G		H		I		J									
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242	F		G		H		I		J											
Phone	(513) 878-6853	Phone	(513) 878-6844	G		H		I		J													
Fax	(513) 878-6848	Fax	(513) 878-6848	H		I		J															
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com	I		J																	
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold						
1	SW-3-052113 01	05-21-13	1005	W	-	4	X		X	X	X												
2					HCL	2	X																
3					HNO3	1	X																
4	SW-2-052113 02	05-21-13	0838	W	-	4	X		X	X	X												
5					HCL	2	X																
6					HNO3	1	X																
7																							
8																							
9																							
10																							
Sampler(s) Please Print & Sign				Shipment Method				Required Turnaround Time: (Check Box)				Notes:											
Relinquished by: [Signature]				Received by: [Signature]				<input type="checkbox"/> Std 10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				QC Package: (Check One Box Below) <input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other / EDD											
Relinquished by: [Signature]				Date: 5-21-13				Date: 5/21/13				Cooler ID											
Logged by (Laboratory): [Signature]				Time: 12:15				Time: 18:50				Cooler Temp.											
Preservative Key:				1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4°C 9-5035																			

Delivery Method:
 Std US Mail
 UPS ALS Courier
 City Dash
 FedEx
 US Mail Drop Box
 Other: _____

Cooling Method: None Ice Pack Dry Ice
 Custody Seals On: Cooler Package Samples None
 Temp in Celsius: 22

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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23-Aug-2013

Elaine Nomina
AECOM
4219 Malsbury Road
Cincinnati, OH 45242

Tel: (513) 878-6853
Fax: (513) 878-6848

Re: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: **1305490**

Dear Elaine,

ALS Environmental received 21 samples on 22-May-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 111.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Rob Nieman

Chris Gibson
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

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Environmental

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RIGHT SOLUTIONS RIGHT PARTNER

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305490

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1305490-01	SW-8-052113	Water		5/21/2013 15:10	5/22/2013	<input type="checkbox"/>
1305490-01	SW-8-052113	Water		5/21/2013 15:10	5/22/2013	<input type="checkbox"/>
1305490-02	SW-7-052113	Water		5/21/2013 16:45	5/22/2013	<input type="checkbox"/>
1305490-02	SW-7-052113	Water		5/21/2013 16:45	5/22/2013	<input type="checkbox"/>
1305490-03	SED-6-ERB	Water		5/21/2013 17:50	5/22/2013	<input type="checkbox"/>
1305490-03	SED-6-ERB	Water		5/21/2013 17:50	5/22/2013	<input type="checkbox"/>
1305490-04	SED-8-0001	Soil		5/21/2013 15:20	5/22/2013	<input type="checkbox"/>
1305490-05	SED-7-0001	Soil		5/21/2013 17:15	5/22/2013	<input type="checkbox"/>
1305490-05	SED-7-0001	Soil		5/21/2013 17:15	5/22/2013	<input type="checkbox"/>
1305490-06	SED-6-0001	Soil		5/21/2013 18:13	5/22/2013	<input type="checkbox"/>
1305490-06	SED-6-0001	Soil		5/21/2013 18:13	5/22/2013	<input type="checkbox"/>
1305490-07	SED-6B-0001	Soil		5/21/2013	5/22/2013	<input type="checkbox"/>
1305490-07	SED-6B-0001	Soil		5/21/2013	5/22/2013	<input type="checkbox"/>
1305490-08	SED-4-0001	Soil		5/22/2013 08:35	5/22/2013	<input type="checkbox"/>
1305490-08	SED-4-0001	Soil		5/22/2013 08:35	5/22/2013	<input type="checkbox"/>

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305490

Case Narrative

The analyses requested were analyzed according to Ohio Voluntary Action Program requirements.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SW-8-052113

Lab ID: 1305490-01

Collection Date: 5/21/2013 03:10 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.61	µg/L	1	5/24/2013
Aroclor 1221	ND		0.61	µg/L	1	5/24/2013
Aroclor 1232	ND		0.61	µg/L	1	5/24/2013
Aroclor 1242	ND		0.61	µg/L	1	5/24/2013
Aroclor 1248	ND		0.61	µg/L	1	5/24/2013
Aroclor 1254	ND		0.61	µg/L	1	5/24/2013
Aroclor 1260	ND		0.61	µg/L	1	5/24/2013
Surr: Decachlorobiphenyl	78.0		37-108	%REC	1	5/24/2013
Surr: Tetrachloro-m-xylene	78.0		9-136	%REC	1	5/24/2013
MERCURY BY CVAA			SW7470A		Prep Date: 5/27/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	5/28/2013 06:22 PM
METALS BY ICP			SW6010B		Prep Date: 5/23/2013	Analyst: VAW
Aluminum	ND		0.20	mg/L	1	5/24/2013 04:42 PM
Antimony	ND		0.0060	mg/L	1	5/24/2013 04:42 PM
Arsenic	ND		0.010	mg/L	1	5/24/2013 04:42 PM
Barium	0.10		0.10	mg/L	1	5/24/2013 04:42 PM
Beryllium	ND		0.0040	mg/L	1	5/24/2013 04:42 PM
Cadmium	ND		0.0050	mg/L	1	5/24/2013 04:42 PM
Calcium	140		0.20	mg/L	1	5/24/2013 04:42 PM
Chromium	ND		0.020	mg/L	1	5/24/2013 04:42 PM
Cobalt	ND		0.050	mg/L	1	5/24/2013 04:42 PM
Copper	ND		0.025	mg/L	1	5/24/2013 04:42 PM
Iron	0.34		0.20	mg/L	1	5/24/2013 04:42 PM
Lead	ND		0.015	mg/L	1	5/24/2013 04:42 PM
Magnesium	31		0.20	mg/L	1	5/24/2013 04:42 PM
Manganese	0.14		0.050	mg/L	1	5/24/2013 04:42 PM
Nickel	ND		0.040	mg/L	1	5/24/2013 04:42 PM
Potassium	4.1		0.20	mg/L	1	5/24/2013 04:42 PM
Selenium	ND		0.030	mg/L	1	5/24/2013 04:42 PM
Silver	ND		0.010	mg/L	1	5/24/2013 04:42 PM
Sodium	130		0.20	mg/L	1	5/24/2013 04:42 PM
Thallium	ND		0.0020	mg/L	1	5/24/2013 04:42 PM
Vanadium	ND		0.050	mg/L	1	5/24/2013 04:42 PM
Zinc	ND		0.050	mg/L	1	5/24/2013 04:42 PM
SM2340B HARDNESS BY CALCULATION			SM2340B			Analyst: KMW
CaCO3	430		5.0	mg/L	1	5/28/2013
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/28/2013	Analyst: Microba

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SW-8-052113

Lab ID: 1305490-01

Collection Date: 5/21/2013 03:10 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		0.053	µg/L	1	6/3/2013 08:49 PM
4,4'-DDE	ND		0.053	µg/L	1	6/3/2013 08:49 PM
4,4'-DDT	ND		0.053	µg/L	1	6/3/2013 08:49 PM
Aldrin	ND		0.053	µg/L	1	6/3/2013 08:49 PM
alpha Chlordane	ND		0.053	µg/L	1	6/3/2013 08:49 PM
alpha-BHC	ND		0.053	µg/L	1	6/3/2013 08:49 PM
beta-BHC	ND		0.053	µg/L	1	6/3/2013 08:49 PM
delta-BHC	ND		0.053	µg/L	1	6/3/2013 08:49 PM
Dieldrin	ND		0.053	µg/L	1	6/3/2013 08:49 PM
Endosulfan I	ND		0.053	µg/L	1	6/3/2013 08:49 PM
Endosulfan II	ND		0.053	µg/L	1	6/3/2013 08:49 PM
Endosulfan sulfate	ND		0.053	µg/L	1	6/3/2013 08:49 PM
Endrin	ND		0.053	µg/L	1	6/3/2013 08:49 PM
Endrin aldehyde	ND		0.053	µg/L	1	6/3/2013 08:49 PM
Endrin ketone	ND		0.053	µg/L	1	6/3/2013 08:49 PM
gamma Chlordane	ND		0.053	µg/L	1	6/3/2013 08:49 PM
gamma-BHC (Lindane)	ND		0.053	µg/L	1	6/3/2013 08:49 PM
Heptachlor	ND		0.053	µg/L	1	6/3/2013 08:49 PM
Heptachlor epoxide	ND		0.053	µg/L	1	6/3/2013 08:49 PM
Methoxychlor	ND		0.053	µg/L	1	6/3/2013 08:49 PM
Toxaphene	ND		1.1	µg/L	1	6/3/2013 08:49 PM
<i>Surr: Decachlorobiphenyl</i>	51.8		25-140	%REC	1	6/3/2013 08:49 PM
<i>Surr: Tetrachloro-m-xylene</i>	40.5		20-180	%REC	1	6/3/2013 08:49 PM
HERBICIDES			SW8151		Prep Date: 5/28/2013	Analyst: Microba
2,4,5-T	ND		0.21	µg/L	1	5/30/2013 06:18 PM
2,4,5-TP (Silvex)	ND		0.21	µg/L	1	5/30/2013 06:18 PM
2,4-D	ND		2.1	µg/L	1	5/30/2013 06:18 PM
2,4-DB	ND		2.1	µg/L	1	5/30/2013 06:18 PM
Dalapon	ND		5.3	µg/L	1	5/30/2013 06:18 PM
Dicamba	ND		0.21	µg/L	1	5/30/2013 06:18 PM
Dichlorprop	ND		2.1	µg/L	1	5/30/2013 06:18 PM
Dinoseb	ND		1.0	µg/L	1	5/30/2013 06:18 PM
MCPA	ND		260	µg/L	1	5/30/2013 06:18 PM
MCPP	ND		260	µg/L	1	5/30/2013 06:18 PM
Pentachlorophenol	ND		0.21	µg/L	1	5/30/2013 06:18 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	112		20-144	%REC	1	5/30/2013 06:18 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 5/23/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		13	µg/L	1	5/29/2013 04:02 AM
1,2,4-Trichlorobenzene	ND		13	µg/L	1	5/29/2013 04:02 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SW-8-052113

Lab ID: 1305490-01

Collection Date: 5/21/2013 03:10 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		13	µg/L	1	5/29/2013 04:02 AM
1,3-Dichlorobenzene	ND		13	µg/L	1	5/29/2013 04:02 AM
1,3-Dinitrobenzene	ND		13	µg/L	1	5/29/2013 04:02 AM
1,4-Dichlorobenzene	ND		13	µg/L	1	5/29/2013 04:02 AM
1-Methylnaphthalene	ND		0.13	µg/L	1	5/29/2013 12:48 PM
1-Naphthylamine	ND		13	µg/L	1	5/29/2013 04:02 AM
2,3,4,6-Tetrachlorophenol	ND		13	µg/L	1	5/29/2013 04:02 AM
2,4,5-Trichlorophenol	ND		13	µg/L	1	5/29/2013 04:02 AM
2,4,6-Trichlorophenol	ND		13	µg/L	1	5/29/2013 04:02 AM
2,4-Dichlorophenol	ND		13	µg/L	1	5/29/2013 04:02 AM
2,4-Dimethylphenol	ND		13	µg/L	1	5/29/2013 04:02 AM
2,4-Dinitrophenol	ND		13	µg/L	1	5/29/2013 04:02 AM
2,4-Dinitrotoluene	ND		13	µg/L	1	5/29/2013 04:02 AM
2,6-Dichlorophenol	ND		13	µg/L	1	5/29/2013 04:02 AM
2,6-Dinitrotoluene	ND		13	µg/L	1	5/29/2013 04:02 AM
2-Acetylaminofluorene	ND		13	µg/L	1	5/29/2013 04:02 AM
2-Chloronaphthalene	ND		13	µg/L	1	5/29/2013 04:02 AM
2-Chlorophenol	ND		13	µg/L	1	5/29/2013 04:02 AM
2-Methylnaphthalene	ND		0.13	µg/L	1	5/29/2013 12:48 PM
2-Methylphenol	ND		13	µg/L	1	5/29/2013 04:02 AM
2-Naphthylamine	ND		25	µg/L	1	5/29/2013 04:02 AM
2-Nitroaniline	ND		13	µg/L	1	5/29/2013 04:02 AM
2-Nitrophenol	ND		13	µg/L	1	5/29/2013 04:02 AM
2-Picoline	ND		25	µg/L	1	5/29/2013 04:02 AM
3&4-Methylphenol	ND		13	µg/L	1	5/29/2013 04:02 AM
3,3'-Dichlorobenzidine	ND		13	µg/L	1	5/29/2013 04:02 AM
3-Methylcholanthrene	ND		25	µg/L	1	5/29/2013 04:02 AM
3-Nitroaniline	ND		25	µg/L	1	5/29/2013 04:02 AM
4,6-Dinitro-2-methylphenol	ND		25	µg/L	1	5/29/2013 04:02 AM
4-Aminobiphenyl	ND		13	µg/L	1	5/29/2013 04:02 AM
4-Bromophenyl phenyl ether	ND		25	µg/L	1	5/29/2013 04:02 AM
4-Chloro-3-methylphenol	ND		25	µg/L	1	5/29/2013 04:02 AM
4-Chloroaniline	ND		13	µg/L	1	5/29/2013 04:02 AM
4-Chlorophenyl phenyl ether	ND		25	µg/L	1	5/29/2013 04:02 AM
4-Nitroaniline	ND		25	µg/L	1	5/29/2013 04:02 AM
4-Nitrophenol	ND		13	µg/L	1	5/29/2013 04:02 AM
4-Nitroquinoline 1-oxide	ND		13	µg/L	1	5/29/2013 04:02 AM
5-Nitro-o-toluidine	ND		13	µg/L	1	5/29/2013 04:02 AM
7,12-Dimethylbenz(a)anthracene	ND		13	µg/L	1	5/29/2013 04:02 AM
Acenaphthene	ND		0.13	µg/L	1	5/29/2013 12:48 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SW-8-052113

Lab ID: 1305490-01

Collection Date: 5/21/2013 03:10 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		0.13	µg/L	1	5/29/2013 12:48 PM
Acetophenone	ND		13	µg/L	1	5/29/2013 04:02 AM
Aniline	ND		13	µg/L	1	5/29/2013 04:02 AM
Anthracene	ND		0.13	µg/L	1	5/29/2013 12:48 PM
Azobenzene	ND		13	µg/L	1	5/29/2013 04:02 AM
Benzidine	ND		13	µg/L	1	5/29/2013 04:02 AM
Benzo(a)anthracene	ND		0.13	µg/L	1	5/29/2013 12:48 PM
Benzo(a)pyrene	ND		0.13	µg/L	1	5/29/2013 12:48 PM
Benzo(b)fluoranthene	ND		0.14	µg/L	1	5/29/2013 12:48 PM
Benzo(g,h,i)perylene	ND		0.13	µg/L	1	5/29/2013 12:48 PM
Benzo(k)fluoranthene	ND		0.20	µg/L	1	5/29/2013 12:48 PM
Benzyl alcohol	ND		13	µg/L	1	5/29/2013 04:02 AM
Bis(2-chloroethoxy)methane	ND		13	µg/L	1	5/29/2013 04:02 AM
Bis(2-chloroethyl)ether	ND		13	µg/L	1	5/29/2013 04:02 AM
Bis(2-chloroisopropyl)ether	ND		13	µg/L	1	5/29/2013 04:02 AM
Bis(2-ethylhexyl)phthalate	ND		13	µg/L	1	5/29/2013 04:02 AM
Butyl benzyl phthalate	ND		13	µg/L	1	5/29/2013 04:02 AM
Carbazole	ND		13	µg/L	1	5/29/2013 12:48 PM
Chrysene	ND		0.13	µg/L	1	5/29/2013 12:48 PM
Dibenzo(a,h)anthracene	ND		0.13	µg/L	1	5/29/2013 12:48 PM
Dibenzofuran	ND		13	µg/L	1	5/29/2013 12:48 PM
Diethyl phthalate	ND		13	µg/L	1	5/29/2013 04:02 AM
Dimethyl phthalate	ND		13	µg/L	1	5/29/2013 04:02 AM
Di-n-butyl phthalate	ND		13	µg/L	1	5/29/2013 04:02 AM
Di-n-octyl phthalate	ND		13	µg/L	1	5/29/2013 04:02 AM
Dinoseb	ND		25	µg/L	1	5/29/2013 04:02 AM
Diphenylamine	ND		13	µg/L	1	5/29/2013 04:02 AM
Ethyl methanesulfonate	ND		13	µg/L	1	5/29/2013 04:02 AM
Fluoranthene	ND		0.13	µg/L	1	5/29/2013 12:48 PM
Fluorene	ND		0.13	µg/L	1	5/29/2013 12:48 PM
Hexachlorobenzene	ND		13	µg/L	1	5/29/2013 04:02 AM
Hexachlorobutadiene	ND		13	µg/L	1	5/29/2013 04:02 AM
Hexachlorocyclopentadiene	ND		13	µg/L	1	5/29/2013 04:02 AM
Hexachloroethane	ND		13	µg/L	1	5/29/2013 04:02 AM
Indeno(1,2,3-cd)pyrene	ND		0.13	µg/L	1	5/29/2013 12:48 PM
Isophorone	ND		13	µg/L	1	5/29/2013 04:02 AM
Isosafrole	ND		13	µg/L	1	5/29/2013 04:02 AM
Methapyrilene	ND		13	µg/L	1	5/29/2013 04:02 AM
Methyl methanesulfonate	ND		13	µg/L	1	5/29/2013 04:02 AM
Naphthalene	ND		0.13	µg/L	1	5/29/2013 12:48 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SW-8-052113

Lab ID: 1305490-01

Collection Date: 5/21/2013 03:10 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		13	µg/L	1	5/29/2013 04:02 AM
N-Nitrosodiethylamine	ND		13	µg/L	1	5/29/2013 04:02 AM
N-Nitrosodimethylamine	ND		13	µg/L	1	5/29/2013 04:02 AM
N-Nitroso-di-n-butylamine	ND		13	µg/L	1	5/29/2013 04:02 AM
N-Nitrosodi-n-propylamine	ND		13	µg/L	1	5/29/2013 04:02 AM
N-Nitrosomethylethylamine	ND		13	µg/L	1	5/29/2013 04:02 AM
N-Nitrosomorpholine	ND		13	µg/L	1	5/29/2013 04:02 AM
N-Nitrosopiperidine	ND		13	µg/L	1	5/29/2013 04:02 AM
N-Nitrosopyrrolidine	ND		13	µg/L	1	5/29/2013 04:02 AM
o-Toluidine	ND		13	µg/L	1	5/29/2013 04:02 AM
p-Dimethylaminoazobenzene	ND		13	µg/L	1	5/29/2013 04:02 AM
Pentachlorobenzene	ND		13	µg/L	1	5/29/2013 04:02 AM
Pentachloroethane	ND		13	µg/L	1	5/29/2013 04:02 AM
Pentachloronitrobenzene	ND		25	µg/L	1	5/29/2013 04:02 AM
Pentachlorophenol	ND		25	µg/L	1	5/29/2013 04:02 AM
Phenacetin	ND		25	µg/L	1	5/29/2013 04:02 AM
Phenanthrene	ND		0.13	µg/L	1	5/29/2013 12:48 PM
Phenol	ND		13	µg/L	1	5/29/2013 04:02 AM
Pyrene	ND		0.13	µg/L	1	5/29/2013 12:48 PM
Pyridine	ND		13	µg/L	1	5/29/2013 04:02 AM
Safrole	ND		13	µg/L	1	5/29/2013 04:02 AM
<i>Surr: 2,4,6-Tribromophenol</i>	71.6		35-120	%REC	1	5/29/2013 04:02 AM
<i>Surr: 2-Fluorobiphenyl</i>	63.9		38-105	%REC	1	5/29/2013 04:02 AM
<i>Surr: 2-Fluorophenol</i>	44.5		12-89	%REC	1	5/29/2013 04:02 AM
<i>Surr: 4-Terphenyl-d14</i>	65.0		42-125	%REC	1	5/29/2013 04:02 AM
<i>Surr: Nitrobenzene-d5</i>	86.9		28-120	%REC	1	5/29/2013 04:02 AM
<i>Surr: Phenol-d5</i>	34.6		10-62	%REC	1	5/29/2013 04:02 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	5/29/2013 03:16 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	5/29/2013 03:16 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	5/29/2013 03:16 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	5/29/2013 03:16 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	5/29/2013 03:16 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	5/29/2013 03:16 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	5/29/2013 03:16 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SW-8-052113

Lab ID: 1305490-01

Collection Date: 5/21/2013 03:10 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.0	µg/L	1	5/29/2013 03:16 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	5/29/2013 03:16 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	5/29/2013 03:16 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	5/29/2013 03:16 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	5/29/2013 03:16 PM
2-Butanone	ND		5.0	µg/L	1	5/29/2013 03:16 PM
2-Chlorotoluene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
2-Hexanone	ND		5.0	µg/L	1	5/29/2013 03:16 PM
4-Chlorotoluene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Acetone	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Benzene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Bromobenzene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Bromochloromethane	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Bromodichloromethane	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Bromoform	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Bromomethane	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Carbon disulfide	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Carbon tetrachloride	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Chlorobenzene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Chloroethane	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Chloroform	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Chloromethane	ND		5.0	µg/L	1	5/29/2013 03:16 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Dibromochloromethane	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Dibromomethane	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Ethylbenzene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Isopropylbenzene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
m,p-Xylene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Methylene chloride	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Naphthalene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
n-Butylbenzene	ND		5.0	µg/L	1	5/29/2013 03:16 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM**Project:** Whirlpool - Green Springs, OH -SWP; PN 60299534**Work Order:** 1305490**Sample ID:** SW-8-052113**Lab ID:** 1305490-01**Collection Date:** 5/21/2013 03:10 PM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
o-Xylene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
sec-Butylbenzene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Styrene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
tert-Butylbenzene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Tetrachloroethene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Toluene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Trichloroethene	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	5/29/2013 03:16 PM
Vinyl chloride	ND		2.0	µg/L	1	5/29/2013 03:16 PM
Xylenes, Total	ND		5.0	µg/L	1	5/29/2013 03:16 PM
<i>Surr: 4-Bromofluorobenzene</i>	98.4		61-131	%REC	1	5/29/2013 03:16 PM
<i>Surr: Dibromofluoromethane</i>	99.1		87-126	%REC	1	5/29/2013 03:16 PM
<i>Surr: Toluene-d8</i>	101		84-111	%REC	1	5/29/2013 03:16 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SW-7-052113

Lab ID: 1305490-02

Collection Date: 5/21/2013 04:45 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.59	µg/L	1	5/24/2013
Aroclor 1221	ND		0.59	µg/L	1	5/24/2013
Aroclor 1232	ND		0.59	µg/L	1	5/24/2013
Aroclor 1242	ND		0.59	µg/L	1	5/24/2013
Aroclor 1248	ND		0.59	µg/L	1	5/24/2013
Aroclor 1254	ND		0.59	µg/L	1	5/24/2013
Aroclor 1260	ND		0.59	µg/L	1	5/24/2013
Surr: Decachlorobiphenyl	66.0		37-108	%REC	1	5/24/2013
Surr: Tetrachloro-m-xylene	76.0		9-136	%REC	1	5/24/2013
MERCURY BY CVAA			SW7470A		Prep Date: 5/27/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	5/28/2013 06:24 PM
METALS BY ICP			SW6010B		Prep Date: 5/23/2013	Analyst: VAW
Aluminum	0.95		0.20	mg/L	1	5/24/2013 05:13 PM
Antimony	ND		0.0060	mg/L	1	5/24/2013 05:13 PM
Arsenic	ND		0.010	mg/L	1	5/24/2013 05:13 PM
Barium	ND		0.10	mg/L	1	5/24/2013 05:13 PM
Beryllium	ND		0.0040	mg/L	1	5/24/2013 05:13 PM
Cadmium	ND		0.0050	mg/L	1	5/24/2013 05:13 PM
Calcium	130		0.20	mg/L	1	5/24/2013 05:13 PM
Chromium	ND		0.020	mg/L	1	5/24/2013 05:13 PM
Cobalt	ND		0.050	mg/L	1	5/24/2013 05:13 PM
Copper	ND		0.025	mg/L	1	5/24/2013 05:13 PM
Iron	4.6		0.20	mg/L	1	5/24/2013 05:13 PM
Lead	ND		0.015	mg/L	1	5/24/2013 05:13 PM
Magnesium	28		0.20	mg/L	1	5/24/2013 05:13 PM
Manganese	2.8		0.050	mg/L	1	5/24/2013 05:13 PM
Nickel	ND		0.040	mg/L	1	5/24/2013 05:13 PM
Potassium	6.7		0.20	mg/L	1	5/24/2013 05:13 PM
Selenium	ND		0.030	mg/L	1	5/24/2013 05:13 PM
Silver	ND		0.010	mg/L	1	5/24/2013 05:13 PM
Sodium	11		0.20	mg/L	1	5/24/2013 05:13 PM
Thallium	0.0042		0.0020	mg/L	1	5/24/2013 05:13 PM
Vanadium	ND		0.050	mg/L	1	5/24/2013 05:13 PM
Zinc	0.073		0.050	mg/L	1	5/24/2013 05:13 PM
SM2340B HARDNESS BY CALCULATION			SM2340B			Analyst: KMW
CaCO3	410		5.0	mg/L	1	5/28/2013
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/28/2013	Analyst: Microba

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SW-7-052113

Lab ID: 1305490-02

Collection Date: 5/21/2013 04:45 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		0.053	µg/L	1	6/3/2013 09:17 PM
4,4'-DDE	ND		0.053	µg/L	1	6/3/2013 09:17 PM
4,4'-DDT	ND		0.053	µg/L	1	6/3/2013 09:17 PM
Aldrin	ND		0.053	µg/L	1	6/3/2013 09:17 PM
alpha Chlordane	ND		0.053	µg/L	1	6/3/2013 09:17 PM
alpha-BHC	ND		0.053	µg/L	1	6/3/2013 09:17 PM
beta-BHC	ND		0.053	µg/L	1	6/3/2013 09:17 PM
delta-BHC	ND		0.053	µg/L	1	6/3/2013 09:17 PM
Dieldrin	ND		0.053	µg/L	1	6/3/2013 09:17 PM
Endosulfan I	ND		0.053	µg/L	1	6/3/2013 09:17 PM
Endosulfan II	ND		0.053	µg/L	1	6/3/2013 09:17 PM
Endosulfan sulfate	ND		0.053	µg/L	1	6/3/2013 09:17 PM
Endrin	ND		0.053	µg/L	1	6/3/2013 09:17 PM
Endrin aldehyde	ND		0.053	µg/L	1	6/3/2013 09:17 PM
Endrin ketone	ND		0.053	µg/L	1	6/3/2013 09:17 PM
gamma Chlordane	ND		0.053	µg/L	1	6/3/2013 09:17 PM
gamma-BHC (Lindane)	ND		0.053	µg/L	1	6/3/2013 09:17 PM
Heptachlor	ND		0.053	µg/L	1	6/3/2013 09:17 PM
Heptachlor epoxide	ND		0.053	µg/L	1	6/3/2013 09:17 PM
Methoxychlor	ND		0.053	µg/L	1	6/3/2013 09:17 PM
Toxaphene	ND		1.0	µg/L	1	6/3/2013 09:17 PM
<i>Surr: Decachlorobiphenyl</i>	26.7		25-140	%REC	1	6/3/2013 09:17 PM
<i>Surr: Tetrachloro-m-xylene</i>	29.9		20-180	%REC	1	6/3/2013 09:17 PM
HERBICIDES			SW8151		Prep Date: 5/28/2013	Analyst: Microba
2,4,5-T	ND		0.21	µg/L	1	5/30/2013 06:43 PM
2,4,5-TP (Silvex)	ND		0.21	µg/L	1	5/30/2013 06:43 PM
2,4-D	ND		2.1	µg/L	1	5/30/2013 06:43 PM
2,4-DB	ND		2.1	µg/L	1	5/30/2013 06:43 PM
Dalapon	ND		5.3	µg/L	1	5/30/2013 06:43 PM
Dicamba	ND		0.21	µg/L	1	5/30/2013 06:43 PM
Dichlorprop	ND		2.1	µg/L	1	5/30/2013 06:43 PM
Dinoseb	ND		1.0	µg/L	1	5/30/2013 06:43 PM
MCPA	ND		260	µg/L	1	5/30/2013 06:43 PM
MCPP	ND		260	µg/L	1	5/30/2013 06:43 PM
Pentachlorophenol	ND		0.21	µg/L	1	5/30/2013 06:43 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	118		20-144	%REC	1	5/30/2013 06:43 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 5/23/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		12	µg/L	1	5/29/2013 04:37 AM
1,2,4-Trichlorobenzene	ND		12	µg/L	1	5/29/2013 04:37 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SW-7-052113

Lab ID: 1305490-02

Collection Date: 5/21/2013 04:45 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		12	µg/L	1	5/29/2013 04:37 AM
1,3-Dichlorobenzene	ND		12	µg/L	1	5/29/2013 04:37 AM
1,3-Dinitrobenzene	ND		12	µg/L	1	5/29/2013 04:37 AM
1,4-Dichlorobenzene	ND		12	µg/L	1	5/29/2013 04:37 AM
1-Methylnaphthalene	ND		0.12	µg/L	1	5/29/2013 01:19 AM
1-Naphthylamine	ND		12	µg/L	1	5/29/2013 04:37 AM
2,3,4,6-Tetrachlorophenol	ND		12	µg/L	1	5/29/2013 04:37 AM
2,4,5-Trichlorophenol	ND		12	µg/L	1	5/29/2013 04:37 AM
2,4,6-Trichlorophenol	ND		12	µg/L	1	5/29/2013 04:37 AM
2,4-Dichlorophenol	ND		12	µg/L	1	5/29/2013 04:37 AM
2,4-Dimethylphenol	ND		12	µg/L	1	5/29/2013 04:37 AM
2,4-Dinitrophenol	ND		12	µg/L	1	5/29/2013 04:37 AM
2,4-Dinitrotoluene	ND		12	µg/L	1	5/29/2013 04:37 AM
2,6-Dichlorophenol	ND		12	µg/L	1	5/29/2013 04:37 AM
2,6-Dinitrotoluene	ND		12	µg/L	1	5/29/2013 04:37 AM
2-Acetylaminofluorene	ND		12	µg/L	1	5/29/2013 04:37 AM
2-Chloronaphthalene	ND		12	µg/L	1	5/29/2013 04:37 AM
2-Chlorophenol	ND		12	µg/L	1	5/29/2013 04:37 AM
2-Methylnaphthalene	ND		0.12	µg/L	1	5/29/2013 01:19 AM
2-Methylphenol	ND		12	µg/L	1	5/29/2013 04:37 AM
2-Naphthylamine	ND		24	µg/L	1	5/29/2013 04:37 AM
2-Nitroaniline	ND		12	µg/L	1	5/29/2013 04:37 AM
2-Nitrophenol	ND		12	µg/L	1	5/29/2013 04:37 AM
2-Picoline	ND		24	µg/L	1	5/29/2013 04:37 AM
3&4-Methylphenol	ND		12	µg/L	1	5/29/2013 04:37 AM
3,3'-Dichlorobenzidine	ND		12	µg/L	1	5/29/2013 04:37 AM
3-Methylcholanthrene	ND		24	µg/L	1	5/29/2013 04:37 AM
3-Nitroaniline	ND		24	µg/L	1	5/29/2013 04:37 AM
4,6-Dinitro-2-methylphenol	ND		24	µg/L	1	5/29/2013 04:37 AM
4-Aminobiphenyl	ND		12	µg/L	1	5/29/2013 04:37 AM
4-Bromophenyl phenyl ether	ND		24	µg/L	1	5/29/2013 04:37 AM
4-Chloro-3-methylphenol	ND		24	µg/L	1	5/29/2013 04:37 AM
4-Chloroaniline	ND		12	µg/L	1	5/29/2013 04:37 AM
4-Chlorophenyl phenyl ether	ND		24	µg/L	1	5/29/2013 04:37 AM
4-Nitroaniline	ND		24	µg/L	1	5/29/2013 04:37 AM
4-Nitrophenol	ND		12	µg/L	1	5/29/2013 04:37 AM
4-Nitroquinoline 1-oxide	ND		12	µg/L	1	5/29/2013 04:37 AM
5-Nitro-o-toluidine	ND		12	µg/L	1	5/29/2013 04:37 AM
7,12-Dimethylbenz(a)anthracene	ND		12	µg/L	1	5/29/2013 04:37 AM
Acenaphthene	ND		0.12	µg/L	1	5/29/2013 01:19 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SW-7-052113

Lab ID: 1305490-02

Collection Date: 5/21/2013 04:45 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		0.12	µg/L	1	5/29/2013 01:19 AM
Acetophenone	ND		12	µg/L	1	5/29/2013 04:37 AM
Aniline	ND		12	µg/L	1	5/29/2013 04:37 AM
Anthracene	ND		0.12	µg/L	1	5/29/2013 01:19 AM
Azobenzene	ND		12	µg/L	1	5/29/2013 04:37 AM
Benzidine	ND		12	µg/L	1	5/29/2013 04:37 AM
Benzo(a)anthracene	ND		0.12	µg/L	1	5/29/2013 01:19 AM
Benzo(a)pyrene	ND		0.12	µg/L	1	5/29/2013 01:19 AM
Benzo(b)fluoranthene	ND		0.13	µg/L	1	5/29/2013 01:19 AM
Benzo(g,h,i)perylene	ND		0.12	µg/L	1	5/29/2013 01:19 AM
Benzo(k)fluoranthene	ND		0.19	µg/L	1	5/29/2013 01:19 AM
Benzyl alcohol	ND		12	µg/L	1	5/29/2013 04:37 AM
Bis(2-chloroethoxy)methane	ND		12	µg/L	1	5/29/2013 04:37 AM
Bis(2-chloroethyl)ether	ND		12	µg/L	1	5/29/2013 04:37 AM
Bis(2-chloroisopropyl)ether	ND		12	µg/L	1	5/29/2013 04:37 AM
Bis(2-ethylhexyl)phthalate	ND		12	µg/L	1	5/29/2013 04:37 AM
Butyl benzyl phthalate	ND		12	µg/L	1	5/29/2013 04:37 AM
Carbazole	ND		12	µg/L	1	5/29/2013 01:19 AM
Chrysene	ND		0.12	µg/L	1	5/29/2013 01:19 AM
Dibenzo(a,h)anthracene	ND		0.12	µg/L	1	5/29/2013 01:19 AM
Dibenzofuran	ND		12	µg/L	1	5/29/2013 01:19 AM
Diethyl phthalate	ND		12	µg/L	1	5/29/2013 04:37 AM
Dimethyl phthalate	ND		12	µg/L	1	5/29/2013 04:37 AM
Di-n-butyl phthalate	ND		12	µg/L	1	5/29/2013 04:37 AM
Di-n-octyl phthalate	ND		12	µg/L	1	5/29/2013 04:37 AM
Dinoseb	ND		24	µg/L	1	5/29/2013 04:37 AM
Diphenylamine	ND		12	µg/L	1	5/29/2013 04:37 AM
Ethyl methanesulfonate	ND		12	µg/L	1	5/29/2013 04:37 AM
Fluoranthene	ND		0.12	µg/L	1	5/29/2013 01:19 AM
Fluorene	ND		0.12	µg/L	1	5/29/2013 01:19 AM
Hexachlorobenzene	ND		12	µg/L	1	5/29/2013 04:37 AM
Hexachlorobutadiene	ND		12	µg/L	1	5/29/2013 04:37 AM
Hexachlorocyclopentadiene	ND		12	µg/L	1	5/29/2013 04:37 AM
Hexachloroethane	ND		12	µg/L	1	5/29/2013 04:37 AM
Indeno(1,2,3-cd)pyrene	ND		0.12	µg/L	1	5/29/2013 01:19 AM
Isophorone	ND		12	µg/L	1	5/29/2013 04:37 AM
Isosafrole	ND		12	µg/L	1	5/29/2013 04:37 AM
Methapyrilene	ND		12	µg/L	1	5/29/2013 04:37 AM
Methyl methanesulfonate	ND		12	µg/L	1	5/29/2013 04:37 AM
Naphthalene	ND		0.12	µg/L	1	5/29/2013 01:19 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SW-7-052113

Lab ID: 1305490-02

Collection Date: 5/21/2013 04:45 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		12	µg/L	1	5/29/2013 04:37 AM
N-Nitrosodiethylamine	ND		12	µg/L	1	5/29/2013 04:37 AM
N-Nitrosodimethylamine	ND		12	µg/L	1	5/29/2013 04:37 AM
N-Nitroso-di-n-butylamine	ND		12	µg/L	1	5/29/2013 04:37 AM
N-Nitrosodi-n-propylamine	ND		12	µg/L	1	5/29/2013 04:37 AM
N-Nitrosomethylethylamine	ND		12	µg/L	1	5/29/2013 04:37 AM
N-Nitrosomorpholine	ND		12	µg/L	1	5/29/2013 04:37 AM
N-Nitrosopiperidine	ND		12	µg/L	1	5/29/2013 04:37 AM
N-Nitrosopyrrolidine	ND		12	µg/L	1	5/29/2013 04:37 AM
o-Toluidine	ND		12	µg/L	1	5/29/2013 04:37 AM
p-Dimethylaminoazobenzene	ND		12	µg/L	1	5/29/2013 04:37 AM
Pentachlorobenzene	ND		12	µg/L	1	5/29/2013 04:37 AM
Pentachloroethane	ND		12	µg/L	1	5/29/2013 04:37 AM
Pentachloronitrobenzene	ND		24	µg/L	1	5/29/2013 04:37 AM
Pentachlorophenol	ND		24	µg/L	1	5/29/2013 04:37 AM
Phenacetin	ND		24	µg/L	1	5/29/2013 04:37 AM
Phenanthrene	ND		0.12	µg/L	1	5/29/2013 01:19 AM
Phenol	ND		12	µg/L	1	5/29/2013 04:37 AM
Pyrene	ND		0.12	µg/L	1	5/29/2013 01:19 AM
Pyridine	ND		12	µg/L	1	5/29/2013 04:37 AM
Safrole	ND		12	µg/L	1	5/29/2013 04:37 AM
Surr: 2,4,6-Tribromophenol	50.3		35-120	%REC	1	5/29/2013 04:37 AM
Surr: 2-Fluorobiphenyl	45.7		38-105	%REC	1	5/29/2013 04:37 AM
Surr: 2-Fluorophenol	32.9		12-89	%REC	1	5/29/2013 04:37 AM
Surr: 4-Terphenyl-d14	45.1		42-125	%REC	1	5/29/2013 04:37 AM
Surr: Nitrobenzene-d5	50.5		28-120	%REC	1	5/29/2013 04:37 AM
Surr: Phenol-d5	27.7		10-62	%REC	1	5/29/2013 04:37 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: **LAK**

1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	5/29/2013 03:46 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	5/29/2013 03:46 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	5/29/2013 03:46 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	5/29/2013 03:46 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	5/29/2013 03:46 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	5/29/2013 03:46 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	5/29/2013 03:46 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SW-7-052113

Lab ID: 1305490-02

Collection Date: 5/21/2013 04:45 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.0	µg/L	1	5/29/2013 03:46 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	5/29/2013 03:46 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	5/29/2013 03:46 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	5/29/2013 03:46 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	5/29/2013 03:46 PM
2-Butanone	ND		5.0	µg/L	1	5/29/2013 03:46 PM
2-Chlorotoluene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
2-Hexanone	ND		5.0	µg/L	1	5/29/2013 03:46 PM
4-Chlorotoluene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Acetone	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Benzene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Bromobenzene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Bromochloromethane	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Bromodichloromethane	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Bromoform	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Bromomethane	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Carbon disulfide	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Carbon tetrachloride	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Chlorobenzene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Chloroethane	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Chloroform	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Chloromethane	ND		5.0	µg/L	1	5/29/2013 03:46 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Dibromochloromethane	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Dibromomethane	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Ethylbenzene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Isopropylbenzene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
m,p-Xylene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Methylene chloride	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Naphthalene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
n-Butylbenzene	ND		5.0	µg/L	1	5/29/2013 03:46 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SW-7-052113

Lab ID: 1305490-02

Collection Date: 5/21/2013 04:45 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
o-Xylene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
sec-Butylbenzene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Styrene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
tert-Butylbenzene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Tetrachloroethene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Toluene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Trichloroethene	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	5/29/2013 03:46 PM
Vinyl chloride	ND		2.0	µg/L	1	5/29/2013 03:46 PM
Xylenes, Total	ND		5.0	µg/L	1	5/29/2013 03:46 PM
<i>Surr: 4-Bromofluorobenzene</i>	96.9		61-131	%REC	1	5/29/2013 03:46 PM
<i>Surr: Dibromofluoromethane</i>	98.2		87-126	%REC	1	5/29/2013 03:46 PM
<i>Surr: Toluene-d8</i>	103		84-111	%REC	1	5/29/2013 03:46 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6-ERB

Lab ID: 1305490-03

Collection Date: 5/21/2013 05:50 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/23/2013	Analyst: SAD
Aroclor 1016	ND		0.53	µg/L	1	5/24/2013
Aroclor 1221	ND		0.53	µg/L	1	5/24/2013
Aroclor 1232	ND		0.53	µg/L	1	5/24/2013
Aroclor 1242	ND		0.53	µg/L	1	5/24/2013
Aroclor 1248	ND		0.53	µg/L	1	5/24/2013
Aroclor 1254	ND		0.53	µg/L	1	5/24/2013
Aroclor 1260	ND		0.53	µg/L	1	5/24/2013
Surr: Decachlorobiphenyl	50.0		37-108	%REC	1	5/24/2013
Surr: Tetrachloro-m-xylene	75.2		9-136	%REC	1	5/24/2013
MERCURY BY CVAA			SW7470A		Prep Date: 5/27/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	5/28/2013 06:26 PM
METALS BY ICP			SW6010B		Prep Date: 5/23/2013	Analyst: VAW
Aluminum	ND		0.20	mg/L	1	5/24/2013 05:19 PM
Antimony	ND		0.0060	mg/L	1	5/24/2013 05:19 PM
Arsenic	ND		0.010	mg/L	1	5/24/2013 05:19 PM
Barium	ND		0.10	mg/L	1	5/24/2013 05:19 PM
Beryllium	ND		0.0040	mg/L	1	5/24/2013 05:19 PM
Cadmium	ND		0.0050	mg/L	1	5/24/2013 05:19 PM
Calcium	0.80		0.20	mg/L	1	5/24/2013 05:19 PM
Chromium	ND		0.020	mg/L	1	5/24/2013 05:19 PM
Cobalt	ND		0.050	mg/L	1	5/24/2013 05:19 PM
Copper	ND		0.025	mg/L	1	5/24/2013 05:19 PM
Iron	ND		0.20	mg/L	1	5/24/2013 05:19 PM
Lead	ND		0.015	mg/L	1	5/24/2013 05:19 PM
Magnesium	ND		0.20	mg/L	1	5/24/2013 05:19 PM
Manganese	ND		0.050	mg/L	1	5/24/2013 05:19 PM
Nickel	ND		0.040	mg/L	1	5/24/2013 05:19 PM
Potassium	ND		0.20	mg/L	1	5/24/2013 05:19 PM
Selenium	ND		0.030	mg/L	1	5/24/2013 05:19 PM
Silver	ND		0.010	mg/L	1	5/24/2013 05:19 PM
Sodium	ND		0.20	mg/L	1	5/24/2013 05:19 PM
Thallium	ND		0.0020	mg/L	1	5/24/2013 05:19 PM
Vanadium	ND		0.050	mg/L	1	5/24/2013 05:19 PM
Zinc	ND		0.050	mg/L	1	5/24/2013 05:19 PM
SM2340B HARDNESS BY CALCULATION			SM2340B			Analyst: KMW
CaCO3	ND		5.0	mg/L	1	5/28/2013
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/28/2013	Analyst: Microba

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6-ERB

Lab ID: 1305490-03

Collection Date: 5/21/2013 05:50 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		0.056	µg/L	1	6/3/2013 09:45 PM
4,4'-DDE	ND		0.056	µg/L	1	6/3/2013 09:45 PM
4,4'-DDT	ND		0.056	µg/L	1	6/3/2013 09:45 PM
Aldrin	ND		0.056	µg/L	1	6/3/2013 09:45 PM
alpha Chlordane	ND		0.056	µg/L	1	6/3/2013 09:45 PM
alpha-BHC	ND		0.056	µg/L	1	6/3/2013 09:45 PM
beta-BHC	ND		0.056	µg/L	1	6/3/2013 09:45 PM
delta-BHC	ND		0.056	µg/L	1	6/3/2013 09:45 PM
Dieldrin	ND		0.056	µg/L	1	6/3/2013 09:45 PM
Endosulfan I	ND		0.056	µg/L	1	6/3/2013 09:45 PM
Endosulfan II	ND		0.056	µg/L	1	6/3/2013 09:45 PM
Endosulfan sulfate	ND		0.056	µg/L	1	6/3/2013 09:45 PM
Endrin	ND		0.056	µg/L	1	6/3/2013 09:45 PM
Endrin aldehyde	ND		0.056	µg/L	1	6/3/2013 09:45 PM
Endrin ketone	ND		0.056	µg/L	1	6/3/2013 09:45 PM
gamma Chlordane	ND		0.056	µg/L	1	6/3/2013 09:45 PM
gamma-BHC (Lindane)	ND		0.056	µg/L	1	6/3/2013 09:45 PM
Heptachlor	ND		0.056	µg/L	1	6/3/2013 09:45 PM
Heptachlor epoxide	ND		0.056	µg/L	1	6/3/2013 09:45 PM
Methoxychlor	ND		0.056	µg/L	1	6/3/2013 09:45 PM
Toxaphene	ND		1.1	µg/L	1	6/3/2013 09:45 PM
<i>Surr: Decachlorobiphenyl</i>	30.1		25-140	%REC	1	6/3/2013 09:45 PM
<i>Surr: Tetrachloro-m-xylene</i>	62.8		20-180	%REC	1	6/3/2013 09:45 PM
HERBICIDES			SW8151		Prep Date: 5/28/2013	Analyst: Microba
2,4,5-T	ND		0.20	µg/L	1	5/30/2013 07:09 PM
2,4,5-TP (Silvex)	ND		0.20	µg/L	1	5/30/2013 07:09 PM
2,4-D	ND		2.0	µg/L	1	5/30/2013 07:09 PM
2,4-DB	ND		2.0	µg/L	1	5/30/2013 07:09 PM
Dalapon	ND		5.1	µg/L	1	5/30/2013 07:09 PM
Dicamba	ND		0.20	µg/L	1	5/30/2013 07:09 PM
Dichlorprop	ND		2.0	µg/L	1	5/30/2013 07:09 PM
Dinoseb	ND		1.0	µg/L	1	5/30/2013 07:09 PM
MCPA	ND		260	µg/L	1	5/30/2013 07:09 PM
MCPP	ND		260	µg/L	1	5/30/2013 07:09 PM
Pentachlorophenol	ND		0.20	µg/L	1	5/30/2013 07:09 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	71.1		20-144	%REC	1	5/30/2013 07:09 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 5/23/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		11	µg/L	1	5/29/2013 05:12 AM
1,2,4-Trichlorobenzene	ND		11	µg/L	1	5/29/2013 05:12 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6-ERB

Lab ID: 1305490-03

Collection Date: 5/21/2013 05:50 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		11	µg/L	1	5/29/2013 05:12 AM
1,3-Dichlorobenzene	ND		11	µg/L	1	5/29/2013 05:12 AM
1,3-Dinitrobenzene	ND		11	µg/L	1	5/29/2013 05:12 AM
1,4-Dichlorobenzene	ND		11	µg/L	1	5/29/2013 05:12 AM
1-Methylnaphthalene	ND		0.11	µg/L	1	5/29/2013 01:51 AM
1-Naphthylamine	ND		11	µg/L	1	5/29/2013 05:12 AM
2,3,4,6-Tetrachlorophenol	ND		11	µg/L	1	5/29/2013 05:12 AM
2,4,5-Trichlorophenol	ND		11	µg/L	1	5/29/2013 05:12 AM
2,4,6-Trichlorophenol	ND		11	µg/L	1	5/29/2013 05:12 AM
2,4-Dichlorophenol	ND		11	µg/L	1	5/29/2013 05:12 AM
2,4-Dimethylphenol	ND		11	µg/L	1	5/29/2013 05:12 AM
2,4-Dinitrophenol	ND		11	µg/L	1	5/29/2013 05:12 AM
2,4-Dinitrotoluene	ND		11	µg/L	1	5/29/2013 05:12 AM
2,6-Dichlorophenol	ND		11	µg/L	1	5/29/2013 05:12 AM
2,6-Dinitrotoluene	ND		11	µg/L	1	5/29/2013 05:12 AM
2-Acetylaminofluorene	ND		11	µg/L	1	5/29/2013 05:12 AM
2-Chloronaphthalene	ND		11	µg/L	1	5/29/2013 05:12 AM
2-Chlorophenol	ND		11	µg/L	1	5/29/2013 05:12 AM
2-Methylnaphthalene	ND		0.11	µg/L	1	5/29/2013 01:51 AM
2-Methylphenol	ND		11	µg/L	1	5/29/2013 05:12 AM
2-Naphthylamine	ND		21	µg/L	1	5/29/2013 05:12 AM
2-Nitroaniline	ND		11	µg/L	1	5/29/2013 05:12 AM
2-Nitrophenol	ND		11	µg/L	1	5/29/2013 05:12 AM
2-Picoline	ND		21	µg/L	1	5/29/2013 05:12 AM
3&4-Methylphenol	ND		11	µg/L	1	5/29/2013 05:12 AM
3,3'-Dichlorobenzidine	ND		11	µg/L	1	5/29/2013 05:12 AM
3-Methylcholanthrene	ND		21	µg/L	1	5/29/2013 05:12 AM
3-Nitroaniline	ND		21	µg/L	1	5/29/2013 05:12 AM
4,6-Dinitro-2-methylphenol	ND		21	µg/L	1	5/29/2013 05:12 AM
4-Aminobiphenyl	ND		11	µg/L	1	5/29/2013 05:12 AM
4-Bromophenyl phenyl ether	ND		21	µg/L	1	5/29/2013 05:12 AM
4-Chloro-3-methylphenol	ND		21	µg/L	1	5/29/2013 05:12 AM
4-Chloroaniline	ND		11	µg/L	1	5/29/2013 05:12 AM
4-Chlorophenyl phenyl ether	ND		21	µg/L	1	5/29/2013 05:12 AM
4-Nitroaniline	ND		21	µg/L	1	5/29/2013 05:12 AM
4-Nitrophenol	ND		11	µg/L	1	5/29/2013 05:12 AM
4-Nitroquinoline 1-oxide	ND		11	µg/L	1	5/29/2013 05:12 AM
5-Nitro-o-toluidine	ND		11	µg/L	1	5/29/2013 05:12 AM
7,12-Dimethylbenz(a)anthracene	ND		11	µg/L	1	5/29/2013 05:12 AM
Acenaphthene	ND		0.11	µg/L	1	5/29/2013 01:51 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6-ERB

Lab ID: 1305490-03

Collection Date: 5/21/2013 05:50 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		0.11	µg/L	1	5/29/2013 01:51 AM
Acetophenone	ND		11	µg/L	1	5/29/2013 05:12 AM
Aniline	ND		11	µg/L	1	5/29/2013 05:12 AM
Anthracene	ND		0.11	µg/L	1	5/29/2013 01:51 AM
Azobenzene	ND		11	µg/L	1	5/29/2013 05:12 AM
Benzidine	ND		11	µg/L	1	5/29/2013 05:12 AM
Benzo(a)anthracene	ND		0.11	µg/L	1	5/29/2013 01:51 AM
Benzo(a)pyrene	ND		0.11	µg/L	1	5/29/2013 01:51 AM
Benzo(b)fluoranthene	ND		0.12	µg/L	1	5/29/2013 01:51 AM
Benzo(g,h,i)perylene	ND		0.11	µg/L	1	5/29/2013 01:51 AM
Benzo(k)fluoranthene	ND		0.17	µg/L	1	5/29/2013 01:51 AM
Benzyl alcohol	ND		11	µg/L	1	5/29/2013 05:12 AM
Bis(2-chloroethoxy)methane	ND		11	µg/L	1	5/29/2013 05:12 AM
Bis(2-chloroethyl)ether	ND		11	µg/L	1	5/29/2013 05:12 AM
Bis(2-chloroisopropyl)ether	ND		11	µg/L	1	5/29/2013 05:12 AM
Bis(2-ethylhexyl)phthalate	ND		11	µg/L	1	5/29/2013 05:12 AM
Butyl benzyl phthalate	ND		11	µg/L	1	5/29/2013 05:12 AM
Carbazole	ND		11	µg/L	1	5/29/2013 01:51 AM
Chrysene	ND		0.11	µg/L	1	5/29/2013 01:51 AM
Dibenzo(a,h)anthracene	ND		0.11	µg/L	1	5/29/2013 01:51 AM
Dibenzofuran	ND		11	µg/L	1	5/29/2013 01:51 AM
Diethyl phthalate	ND		11	µg/L	1	5/29/2013 05:12 AM
Dimethyl phthalate	ND		11	µg/L	1	5/29/2013 05:12 AM
Di-n-butyl phthalate	ND		11	µg/L	1	5/29/2013 05:12 AM
Di-n-octyl phthalate	ND		11	µg/L	1	5/29/2013 05:12 AM
Dinoseb	ND		21	µg/L	1	5/29/2013 05:12 AM
Diphenylamine	ND		11	µg/L	1	5/29/2013 05:12 AM
Ethyl methanesulfonate	ND		11	µg/L	1	5/29/2013 05:12 AM
Fluoranthene	ND		0.11	µg/L	1	5/29/2013 01:51 AM
Fluorene	ND		0.11	µg/L	1	5/29/2013 01:51 AM
Hexachlorobenzene	ND		11	µg/L	1	5/29/2013 05:12 AM
Hexachlorobutadiene	ND		11	µg/L	1	5/29/2013 05:12 AM
Hexachlorocyclopentadiene	ND		11	µg/L	1	5/29/2013 05:12 AM
Hexachloroethane	ND		11	µg/L	1	5/29/2013 05:12 AM
Indeno(1,2,3-cd)pyrene	ND		0.11	µg/L	1	5/29/2013 01:51 AM
Isophorone	ND		11	µg/L	1	5/29/2013 05:12 AM
Isosafrole	ND		11	µg/L	1	5/29/2013 05:12 AM
Methapyrilene	ND		11	µg/L	1	5/29/2013 05:12 AM
Methyl methanesulfonate	ND		11	µg/L	1	5/29/2013 05:12 AM
Naphthalene	0.11	J	0.11	µg/L	1	5/29/2013 01:51 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6-ERB

Lab ID: 1305490-03

Collection Date: 5/21/2013 05:50 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		11	µg/L	1	5/29/2013 05:12 AM
N-Nitrosodiethylamine	ND		11	µg/L	1	5/29/2013 05:12 AM
N-Nitrosodimethylamine	ND		11	µg/L	1	5/29/2013 05:12 AM
N-Nitroso-di-n-butylamine	ND		11	µg/L	1	5/29/2013 05:12 AM
N-Nitrosodi-n-propylamine	ND		11	µg/L	1	5/29/2013 05:12 AM
N-Nitrosomethylethylamine	ND		11	µg/L	1	5/29/2013 05:12 AM
N-Nitrosomorpholine	ND		11	µg/L	1	5/29/2013 05:12 AM
N-Nitrosopiperidine	ND		11	µg/L	1	5/29/2013 05:12 AM
N-Nitrosopyrrolidine	ND		11	µg/L	1	5/29/2013 05:12 AM
o-Toluidine	ND		11	µg/L	1	5/29/2013 05:12 AM
p-Dimethylaminoazobenzene	ND		11	µg/L	1	5/29/2013 05:12 AM
Pentachlorobenzene	ND		11	µg/L	1	5/29/2013 05:12 AM
Pentachloroethane	ND		11	µg/L	1	5/29/2013 05:12 AM
Pentachloronitrobenzene	ND		21	µg/L	1	5/29/2013 05:12 AM
Pentachlorophenol	ND		21	µg/L	1	5/29/2013 05:12 AM
Phenacetin	ND		21	µg/L	1	5/29/2013 05:12 AM
Phenanthrene	ND		0.11	µg/L	1	5/29/2013 01:51 AM
Phenol	ND		11	µg/L	1	5/29/2013 05:12 AM
Pyrene	ND		0.11	µg/L	1	5/29/2013 01:51 AM
Pyridine	ND		11	µg/L	1	5/29/2013 05:12 AM
Safrole	ND		11	µg/L	1	5/29/2013 05:12 AM
<i>Surr: 2,4,6-Tribromophenol</i>	80.6		35-120	%REC	1	5/29/2013 05:12 AM
<i>Surr: 2-Fluorobiphenyl</i>	75.2		38-105	%REC	1	5/29/2013 05:12 AM
<i>Surr: 2-Fluorophenol</i>	56.7		12-89	%REC	1	5/29/2013 05:12 AM
<i>Surr: 4-Terphenyl-d14</i>	75.2		42-125	%REC	1	5/29/2013 05:12 AM
<i>Surr: Nitrobenzene-d5</i>	109		28-120	%REC	1	5/29/2013 05:12 AM
<i>Surr: Phenol-d5</i>	38.9		10-62	%REC	1	5/29/2013 05:12 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	5/29/2013 04:16 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	5/29/2013 04:16 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	5/29/2013 04:16 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	5/29/2013 04:16 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	5/29/2013 04:16 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	5/29/2013 04:16 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	5/29/2013 04:16 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6-ERB

Lab ID: 1305490-03

Collection Date: 5/21/2013 05:50 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.0	µg/L	1	5/29/2013 04:16 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	5/29/2013 04:16 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	5/29/2013 04:16 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	5/29/2013 04:16 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	5/29/2013 04:16 PM
2-Butanone	ND		5.0	µg/L	1	5/29/2013 04:16 PM
2-Chlorotoluene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
2-Hexanone	ND		5.0	µg/L	1	5/29/2013 04:16 PM
4-Chlorotoluene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Acetone	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Benzene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Bromobenzene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Bromochloromethane	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Bromodichloromethane	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Bromoform	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Bromomethane	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Carbon disulfide	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Carbon tetrachloride	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Chlorobenzene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Chloroethane	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Chloroform	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Chloromethane	ND		5.0	µg/L	1	5/29/2013 04:16 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Dibromochloromethane	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Dibromomethane	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Ethylbenzene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Isopropylbenzene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
m,p-Xylene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Methylene chloride	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Naphthalene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
n-Butylbenzene	ND		5.0	µg/L	1	5/29/2013 04:16 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6-ERB

Lab ID: 1305490-03

Collection Date: 5/21/2013 05:50 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
o-Xylene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
sec-Butylbenzene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Styrene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
tert-Butylbenzene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Tetrachloroethene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Toluene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Trichloroethene	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	5/29/2013 04:16 PM
Vinyl chloride	ND		2.0	µg/L	1	5/29/2013 04:16 PM
Xylenes, Total	ND		5.0	µg/L	1	5/29/2013 04:16 PM
<i>Surr: 4-Bromofluorobenzene</i>	95.8		61-131	%REC	1	5/29/2013 04:16 PM
<i>Surr: Dibromofluoromethane</i>	101		87-126	%REC	1	5/29/2013 04:16 PM
<i>Surr: Toluene-d8</i>	103		84-111	%REC	1	5/29/2013 04:16 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-8-0001

Lab ID: 1305490-04

Collection Date: 5/21/2013 03:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.16	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1221	ND		0.33	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1232	ND		0.16	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1242	ND		0.16	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1248	ND		0.16	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1254	ND		0.16	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1260	ND		0.16	mg/Kg-dry	1	5/30/2013 08:19 AM
Surr: Decachlorobiphenyl	86.0		22-156	%REC	1	5/30/2013 08:19 AM
Surr: Tetrachloro-m-xylene	87.8		34-145	%REC	1	5/30/2013 08:19 AM
MOISTURE			SM2540B		Prep Date: 5/23/2013	Analyst: CTS
Moisture	40		0.010	% of sample	1	5/24/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.48	mg/Kg-dry	1	5/29/2013 03:55 PM
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Aluminum	9,200		820	mg/Kg-dry	1	5/24/2013 10:14 PM
Antimony	ND		4.9	mg/Kg-dry	1	5/24/2013 10:14 PM
Arsenic	8.8		8.2	mg/Kg-dry	1	5/24/2013 10:14 PM
Barium	120		16	mg/Kg-dry	1	5/24/2013 10:14 PM
Beryllium	0.56		0.033	mg/Kg-dry	1	5/24/2013 10:14 PM
Cadmium	ND		1.6	mg/Kg-dry	1	5/24/2013 10:14 PM
Calcium	25,000		820	mg/Kg-dry	1	5/24/2013 10:14 PM
Chromium	20		3.3	mg/Kg-dry	1	5/24/2013 10:14 PM
Cobalt	15		8.2	mg/Kg-dry	1	5/24/2013 10:14 PM
Copper	22		8.2	mg/Kg-dry	1	5/24/2013 10:14 PM
Iron	22,000		160	mg/Kg-dry	1	5/24/2013 10:14 PM
Lead	22		8.2	mg/Kg-dry	1	5/24/2013 10:14 PM
Magnesium	7,100		160	mg/Kg-dry	1	5/24/2013 10:14 PM
Manganese	920		8.2	mg/Kg-dry	1	5/24/2013 10:14 PM
Nickel	55		8.2	mg/Kg-dry	1	5/24/2013 10:14 PM
Potassium	1,200		820	mg/Kg-dry	1	5/24/2013 10:14 PM
Selenium	ND		4.9	mg/Kg-dry	1	5/24/2013 10:14 PM
Silver	ND		1.6	mg/Kg-dry	1	5/24/2013 10:14 PM
Sodium	ND		820	mg/Kg-dry	1	5/24/2013 10:14 PM
Thallium	ND		4.9	mg/Kg-dry	1	5/24/2013 10:14 PM
Vanadium	18		8.2	mg/Kg-dry	1	5/24/2013 10:14 PM
Zinc	150		8.2	mg/Kg-dry	1	5/24/2013 10:14 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/29/2013	Analyst: Microba

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-8-0001

Lab ID: 1305490-04

Collection Date: 5/21/2013 03:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		2.7	µg/Kg	1	6/11/2013 10:09 AM
4,4'-DDE	ND		2.7	µg/Kg	1	6/11/2013 10:09 AM
4,4'-DDT	ND		2.7	µg/Kg	1	6/11/2013 10:09 AM
Aldrin	ND		2.7	µg/Kg	1	6/11/2013 10:09 AM
alpha-BHC	ND		2.7	µg/Kg	1	6/11/2013 10:09 AM
alpha-Chlordane	ND		2.7	µg/Kg	1	6/11/2013 10:09 AM
beta-BHC	ND		2.7	µg/Kg	1	6/11/2013 10:09 AM
delta-BHC	ND		2.7	µg/Kg	1	6/11/2013 10:09 AM
Dieldrin	ND		2.7	µg/Kg	1	6/11/2013 10:09 AM
Endosulfan I	ND		2.7	µg/Kg	1	6/11/2013 10:09 AM
Endosulfan II	ND		2.7	µg/Kg	1	6/11/2013 10:09 AM
Endosulfan sulfate	ND		2.7	µg/Kg	1	6/11/2013 10:09 AM
Endrin	ND		2.7	µg/Kg	1	6/11/2013 10:09 AM
Endrin aldehyde	ND		2.7	µg/Kg	1	6/11/2013 10:09 AM
Endrin ketone	ND		2.7	µg/Kg	1	6/11/2013 10:09 AM
gamma-BHC (Lindane)	ND		2.7	µg/Kg	1	6/11/2013 10:09 AM
gamma-Chlordane	ND		2.7	µg/Kg	1	6/11/2013 10:09 AM
Heptachlor	ND		2.7	µg/Kg	1	6/11/2013 10:09 AM
Heptachlor epoxide	ND		2.7	µg/Kg	1	6/11/2013 10:09 AM
Methoxychlor	ND		2.7	µg/Kg	1	6/11/2013 10:09 AM
Toxaphene	ND		54	µg/Kg	1	6/11/2013 10:09 AM
Surr: Decachlorobiphenyl	47.0		33-143	%REC	1	6/11/2013 10:09 AM
Surr: Tetrachloro-m-xylene	45.0		39-130	%REC	1	6/11/2013 10:09 AM

HERBICIDES

SW8151

Prep Date: 5/29/2013

Analyst: Microba

2,4,5-T	ND		0.0077	mg/Kg	1	6/3/2013 10:05 PM
2,4,5-TP (Silvex)	ND		0.0058	mg/Kg	1	6/3/2013 10:05 PM
2,4-D	ND		0.077	mg/Kg	1	6/3/2013 10:05 PM
2,4-DB	ND		0.077	mg/Kg	1	6/3/2013 10:05 PM
Dalapon	ND		0.19	mg/Kg	1	6/3/2013 10:05 PM
Dicamba	ND		0.0077	mg/Kg	1	6/3/2013 10:05 PM
Dichlorprop	ND		0.077	mg/Kg	1	6/3/2013 10:05 PM
Dinoseb	ND		0.038	mg/Kg	1	6/3/2013 10:05 PM
MCPA	ND		7.7	mg/Kg	1	6/3/2013 10:05 PM
MCPP	ND		7.7	mg/Kg	1	6/3/2013 10:05 PM
Pentachlorophenol	ND		0.0077	mg/Kg	1	6/3/2013 10:05 PM
Surr: 2,4-Dichlorophenylacetic acid	107		25-110	%REC	1	6/3/2013 10:05 PM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 5/24/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
1,2,4-Trichlorobenzene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-8-0001

Lab ID: 1305490-04

Collection Date: 5/21/2013 03:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
1,3-Dichlorobenzene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
1,3-Dinitrobenzene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
1,4-Dichlorobenzene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
1-Methylnaphthalene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
1-Naphthylamine	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
2,3,4,6-Tetrachlorophenol	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
2,4,5-Trichlorophenol	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
2,4,6-Trichlorophenol	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
2,4-Dichlorophenol	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
2,4-Dimethylphenol	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
2,4-Dinitrophenol	ND		2,700	µg/Kg-dry	1	5/25/2013 03:05 AM
2,4-Dinitrotoluene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
2,6-Dichlorophenol	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
2,6-Dinitrotoluene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
2-Acetylaminofluorene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
2-Chloronaphthalene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
2-Chlorophenol	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
2-Methylnaphthalene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
2-Methylphenol	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
2-Naphthylamine	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
2-Nitroaniline	ND		2,700	µg/Kg-dry	1	5/25/2013 03:05 AM
2-Nitrophenol	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
2-Picoline	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
3&4-Methylphenol	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
3,3'-Dichlorobenzidine	ND		1,100	µg/Kg-dry	1	5/25/2013 03:05 AM
3-Methylcholanthrene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
3-Nitroaniline	ND		2,700	µg/Kg-dry	1	5/25/2013 03:05 AM
4,6-Dinitro-2-methylphenol	ND		2,700	µg/Kg-dry	1	5/25/2013 03:05 AM
4-Aminobiphenyl	ND		1,100	µg/Kg-dry	1	5/25/2013 03:05 AM
4-Bromophenyl phenyl ether	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
4-Chloro-3-methylphenol	ND		1,100	µg/Kg-dry	1	5/25/2013 03:05 AM
4-Chloroaniline	ND		1,100	µg/Kg-dry	1	5/25/2013 03:05 AM
4-Chlorophenyl phenyl ether	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
4-Nitroaniline	ND		1,100	µg/Kg-dry	1	5/25/2013 03:05 AM
4-Nitrophenol	ND		2,700	µg/Kg-dry	1	5/25/2013 03:05 AM
4-Nitroquinoline 1-oxide	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
5-Nitro-o-toluidine	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
7,12-Dimethylbenz(a)anthracene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Acenaphthene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-8-0001

Lab ID: 1305490-04

Collection Date: 5/21/2013 03:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Acetophenone	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Aniline	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Anthracene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Azobenzene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Benzidine	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Benzo(a)anthracene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Benzo(a)pyrene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Benzo(b)fluoranthene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Benzo(g,h,i)perylene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Benzo(k)fluoranthene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Benzyl alcohol	ND		1,100	µg/Kg-dry	1	5/25/2013 03:05 AM
Bis(2-chloroethoxy)methane	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Bis(2-chloroethyl)ether	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Bis(2-chloroisopropyl)ether	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Bis(2-ethylhexyl)phthalate	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Butyl benzyl phthalate	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Carbazole	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Chrysene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Dibenzo(a,h)anthracene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Dibenzofuran	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Diethyl phthalate	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Dimethyl phthalate	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Di-n-butyl phthalate	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Di-n-octyl phthalate	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Dinoseb	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Diphenylamine	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Ethyl methanesulfonate	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Fluoranthene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Fluorene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Hexachlorobenzene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Hexachlorobutadiene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Hexachlorocyclopentadiene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Hexachloroethane	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Indeno(1,2,3-cd)pyrene	ND		250	µg/Kg-dry	1	5/25/2013 03:05 AM
Isophorone	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Isosafrole	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Methapyrilene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Methyl methanesulfonate	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Naphthalene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-8-0001

Lab ID: 1305490-04

Collection Date: 5/21/2013 03:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
N-Nitrosodiethylamine	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
N-Nitrosodimethylamine	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
N-Nitroso-di-n-butylamine	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
N-Nitrosodi-n-propylamine	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
N-Nitrosomethylethylamine	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
N-Nitrosomorpholine	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
N-Nitrosopiperidine	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
N-Nitrosopyrrolidine	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
o-Toluidine	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
p-Dimethylaminoazobenzene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Pentachlorobenzene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Pentachloroethane	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Pentachloronitrobenzene	ND		1,100	µg/Kg-dry	1	5/25/2013 03:05 AM
Pentachlorophenol	ND		2,700	µg/Kg-dry	1	5/25/2013 03:05 AM
Phenacetin	ND		1,100	µg/Kg-dry	1	5/25/2013 03:05 AM
Phenanthrene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Phenol	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Pyrene	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Pyridine	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Safrole	ND		550	µg/Kg-dry	1	5/25/2013 03:05 AM
Surr: 2,4,6-Tribromophenol	86.9		18-115	%REC	1	5/25/2013 03:05 AM
Surr: 2-Fluorobiphenyl	73.7		30-116	%REC	1	5/25/2013 03:05 AM
Surr: 2-Fluorophenol	59.1		24-105	%REC	1	5/25/2013 03:05 AM
Surr: 4-Terphenyl-d14	58.8		40-127	%REC	1	5/25/2013 03:05 AM
Surr: Nitrobenzene-d5	82.0		32-106	%REC	1	5/25/2013 03:05 AM
Surr: Phenol-d5	67.3		39-123	%REC	1	5/25/2013 03:05 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/24/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
1,1,1-Trichloroethane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
1,1,2,2-Tetrachloroethane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
1,1,2-Trichloroethane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
1,1-Dichloroethane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
1,1-Dichloroethene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
1,1-Dichloropropene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
1,2,3-Trichlorobenzene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
1,2,3-Trichloropropane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
1,2,4-Trichlorobenzene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
1,2,4-Trimethylbenzene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
1,2-Dibromo-3-chloropropane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-8-0001

Lab ID: 1305490-04

Collection Date: 5/21/2013 03:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
1,2-Dichlorobenzene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
1,2-Dichloroethane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
1,2-Dichloropropane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
1,3,5-Trimethylbenzene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
1,3-Dichlorobenzene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
1,3-Dichloropropane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
1,4-Dichlorobenzene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
2,2-Dichloropropane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
2-Butanone	98		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
2-Chlorotoluene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
2-Hexanone	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
4-Chlorotoluene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
4-Methyl-2-pentanone	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Acetone	250		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Benzene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Bromobenzene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Bromochloromethane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Bromodichloromethane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Bromoform	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Bromomethane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Carbon disulfide	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Carbon tetrachloride	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Chlorobenzene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Chloroethane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Chloroform	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Chloromethane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
cis-1,2-Dichloroethene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
cis-1,3-Dichloropropene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Dibromochloromethane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Dibromomethane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Dichlorodifluoromethane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Ethylbenzene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Hexachlorobutadiene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Isopropylbenzene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
m,p-Xylene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Methyl tert-butyl ether	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Methylene chloride	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Naphthalene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
n-Butylbenzene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-8-0001

Lab ID: 1305490-04

Collection Date: 5/21/2013 03:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
o-Xylene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
p-Isopropyltoluene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
sec-Butylbenzene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Styrene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
tert-Butylbenzene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Tetrachloroethene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Toluene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
trans-1,2-Dichloroethene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
trans-1,3-Dichloropropene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Trichloroethene	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Trichlorofluoromethane	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Vinyl chloride	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
Xylenes, Total	ND		7.5	µg/Kg-dry	1	5/24/2013 06:00 PM
<i>Surr: 4-Bromofluorobenzene</i>	102		62.7-159	%REC	1	5/24/2013 06:00 PM
<i>Surr: Dibromofluoromethane</i>	107		88.2-133	%REC	1	5/24/2013 06:00 PM
<i>Surr: Toluene-d8</i>	98.4		81.5-110	%REC	1	5/24/2013 06:00 PM
TOTAL ORGANIC CARBON BY WALKLEY-BLACK			WALKLEY-BLACK			Analyst: KMW
Total Organic Carbon	2.7		0.025	%	1	5/29/2013

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-7-0001

Lab ID: 1305490-05

Collection Date: 5/21/2013 05:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.27	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1221	ND		0.55	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1232	ND		0.27	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1242	ND		0.27	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1248	ND		0.27	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1254	ND		0.27	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1260	ND		0.27	mg/Kg-dry	1	5/30/2013 08:19 AM
Surr: Decachlorobiphenyl	84.8		22-156	%REC	1	5/30/2013 08:19 AM
Surr: Tetrachloro-m-xylene	82.4		34-145	%REC	1	5/30/2013 08:19 AM
MOISTURE			SM2540B		Prep Date: 5/23/2013	Analyst: CTS
Moisture	64		0.010	% of sample	1	5/24/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.77	mg/Kg-dry	1	5/29/2013 04:01 PM
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Aluminum	15,000		1,400	mg/Kg-dry	1	5/24/2013 10:20 PM
Antimony	ND		8.2	mg/Kg-dry	1	5/24/2013 10:20 PM
Arsenic	ND		14	mg/Kg-dry	1	5/24/2013 10:20 PM
Barium	61		27	mg/Kg-dry	1	5/24/2013 10:20 PM
Beryllium	0.80		0.054	mg/Kg-dry	1	5/24/2013 10:20 PM
Cadmium	ND		2.7	mg/Kg-dry	1	5/24/2013 10:20 PM
Calcium	44,000		1,400	mg/Kg-dry	1	5/24/2013 10:20 PM
Chromium	23		5.4	mg/Kg-dry	1	5/24/2013 10:20 PM
Cobalt	ND		14	mg/Kg-dry	1	5/24/2013 10:20 PM
Copper	34		14	mg/Kg-dry	1	5/24/2013 10:20 PM
Iron	28,000		270	mg/Kg-dry	1	5/24/2013 10:20 PM
Lead	27		14	mg/Kg-dry	1	5/24/2013 10:20 PM
Magnesium	9,600		270	mg/Kg-dry	1	5/24/2013 10:20 PM
Manganese	200		14	mg/Kg-dry	1	5/24/2013 10:20 PM
Nickel	29		14	mg/Kg-dry	1	5/24/2013 10:20 PM
Potassium	1,800		1,400	mg/Kg-dry	1	5/24/2013 10:20 PM
Selenium	ND		8.2	mg/Kg-dry	1	5/24/2013 10:20 PM
Silver	ND		2.7	mg/Kg-dry	1	5/24/2013 10:20 PM
Sodium	ND		1,400	mg/Kg-dry	1	5/24/2013 10:20 PM
Thallium	ND		8.2	mg/Kg-dry	1	5/24/2013 10:20 PM
Vanadium	25		14	mg/Kg-dry	1	5/24/2013 10:20 PM
Zinc	130		14	mg/Kg-dry	1	5/24/2013 10:20 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/29/2013	Analyst: Microba

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-7-0001

Lab ID: 1305490-05

Collection Date: 5/21/2013 05:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		81	µg/Kg	1	6/4/2013 06:01 PM
4,4'-DDE	ND		81	µg/Kg	1	6/4/2013 06:01 PM
4,4'-DDT	ND		81	µg/Kg	1	6/4/2013 06:01 PM
Aldrin	ND		81	µg/Kg	1	6/4/2013 06:01 PM
alpha-BHC	ND		81	µg/Kg	1	6/4/2013 06:01 PM
alpha-Chlordane	ND		81	µg/Kg	1	6/4/2013 06:01 PM
beta-BHC	ND		81	µg/Kg	1	6/4/2013 06:01 PM
delta-BHC	ND		81	µg/Kg	1	6/4/2013 06:01 PM
Dieldrin	ND		81	µg/Kg	1	6/4/2013 06:01 PM
Endosulfan I	ND		81	µg/Kg	1	6/4/2013 06:01 PM
Endosulfan II	ND		81	µg/Kg	1	6/4/2013 06:01 PM
Endosulfan sulfate	ND		81	µg/Kg	1	6/4/2013 06:01 PM
Endrin	ND		81	µg/Kg	1	6/4/2013 06:01 PM
Endrin aldehyde	ND		81	µg/Kg	1	6/4/2013 06:01 PM
Endrin ketone	ND		81	µg/Kg	1	6/4/2013 06:01 PM
gamma-BHC (Lindane)	ND		81	µg/Kg	1	6/4/2013 06:01 PM
gamma-Chlordane	ND		81	µg/Kg	1	6/4/2013 06:01 PM
Heptachlor	ND		81	µg/Kg	1	6/4/2013 06:01 PM
Heptachlor epoxide	ND		81	µg/Kg	1	6/4/2013 06:01 PM
Methoxychlor	ND		81	µg/Kg	1	6/4/2013 06:01 PM
Toxaphene	ND		1,600	µg/Kg	1	6/4/2013 06:01 PM
<i>Surr: Decachlorobiphenyl</i>	0		33-143	%REC	1	6/4/2013 06:01 PM
<i>Surr: Tetrachloro-m-xylene</i>	0		39-130	%REC	1	6/4/2013 06:01 PM
HERBICIDES			SW8151		Prep Date: 5/29/2013	Analyst: Microba
2,4,5-T	ND		0.24	mg/Kg	1	6/3/2013 10:31 PM
2,4,5-TP (Silvex)	ND		0.18	mg/Kg	1	6/3/2013 10:31 PM
2,4-D	ND		2.4	mg/Kg	1	6/3/2013 10:31 PM
2,4-DB	ND		2.4	mg/Kg	1	6/3/2013 10:31 PM
Dalapon	ND		5.9	mg/Kg	1	6/3/2013 10:31 PM
Dicamba	ND		0.24	mg/Kg	1	6/3/2013 10:31 PM
Dichlorprop	ND		2.4	mg/Kg	1	6/3/2013 10:31 PM
Dinoseb	ND		1.2	mg/Kg	1	6/3/2013 10:31 PM
MCPA	ND		240	mg/Kg	1	6/3/2013 10:31 PM
MCPP	ND		240	mg/Kg	1	6/3/2013 10:31 PM
Pentachlorophenol	ND		0.24	mg/Kg	1	6/3/2013 10:31 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	0		25-110	%REC	1	6/3/2013 10:31 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 5/24/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
1,2,4-Trichlorobenzene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-7-0001

Lab ID: 1305490-05

Collection Date: 5/21/2013 05:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
1,3-Dichlorobenzene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
1,3-Dinitrobenzene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
1,4-Dichlorobenzene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
1-Methylnaphthalene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
1-Naphthylamine	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
2,3,4,6-Tetrachlorophenol	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
2,4,5-Trichlorophenol	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
2,4,6-Trichlorophenol	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
2,4-Dichlorophenol	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
2,4-Dimethylphenol	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
2,4-Dinitrophenol	ND		4,500	µg/Kg-dry	1	5/25/2013 03:39 AM
2,4-Dinitrotoluene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
2,6-Dichlorophenol	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
2,6-Dinitrotoluene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
2-Acetylaminofluorene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
2-Chloronaphthalene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
2-Chlorophenol	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
2-Methylnaphthalene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
2-Methylphenol	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
2-Naphthylamine	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
2-Nitroaniline	ND		4,500	µg/Kg-dry	1	5/25/2013 03:39 AM
2-Nitrophenol	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
2-Picoline	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
3&4-Methylphenol	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
3,3'-Dichlorobenzidine	ND		1,800	µg/Kg-dry	1	5/25/2013 03:39 AM
3-Methylcholanthrene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
3-Nitroaniline	ND		4,500	µg/Kg-dry	1	5/25/2013 03:39 AM
4,6-Dinitro-2-methylphenol	ND		4,500	µg/Kg-dry	1	5/25/2013 03:39 AM
4-Aminobiphenyl	ND		1,800	µg/Kg-dry	1	5/25/2013 03:39 AM
4-Bromophenyl phenyl ether	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
4-Chloro-3-methylphenol	ND		1,800	µg/Kg-dry	1	5/25/2013 03:39 AM
4-Chloroaniline	ND		1,800	µg/Kg-dry	1	5/25/2013 03:39 AM
4-Chlorophenyl phenyl ether	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
4-Nitroaniline	ND		1,800	µg/Kg-dry	1	5/25/2013 03:39 AM
4-Nitrophenol	ND		4,500	µg/Kg-dry	1	5/25/2013 03:39 AM
4-Nitroquinoline 1-oxide	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
5-Nitro-o-toluidine	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
7,12-Dimethylbenz(a)anthracene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Acenaphthene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-7-0001

Lab ID: 1305490-05

Collection Date: 5/21/2013 05:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Acetophenone	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Aniline	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Anthracene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Azobenzene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Benzidine	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Benzo(a)anthracene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Benzo(a)pyrene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Benzo(b)fluoranthene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Benzo(g,h,i)perylene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Benzo(k)fluoranthene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Benzyl alcohol	ND		1,800	µg/Kg-dry	1	5/25/2013 03:39 AM
Bis(2-chloroethoxy)methane	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Bis(2-chloroethyl)ether	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Bis(2-chloroisopropyl)ether	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Bis(2-ethylhexyl)phthalate	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Butyl benzyl phthalate	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Carbazole	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Chrysene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Dibenzo(a,h)anthracene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Dibenzofuran	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Diethyl phthalate	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Dimethyl phthalate	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Di-n-butyl phthalate	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Di-n-octyl phthalate	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Dinoseb	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Diphenylamine	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Ethyl methanesulfonate	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Fluoranthene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Fluorene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Hexachlorobenzene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Hexachlorobutadiene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Hexachlorocyclopentadiene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Hexachloroethane	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Indeno(1,2,3-cd)pyrene	ND		410	µg/Kg-dry	1	5/25/2013 03:39 AM
Isophorone	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Isosafrole	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Methapyrilene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Methyl methanesulfonate	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Naphthalene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-7-0001

Lab ID: 1305490-05

Collection Date: 5/21/2013 05:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
N-Nitrosodiethylamine	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
N-Nitrosodimethylamine	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
N-Nitroso-di-n-butylamine	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
N-Nitrosodi-n-propylamine	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
N-Nitrosomethylethylamine	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
N-Nitrosomorpholine	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
N-Nitrosopiperidine	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
N-Nitrosopyrrolidine	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
o-Toluidine	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
p-Dimethylaminoazobenzene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Pentachlorobenzene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Pentachloroethane	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Pentachloronitrobenzene	ND		1,800	µg/Kg-dry	1	5/25/2013 03:39 AM
Pentachlorophenol	ND		4,500	µg/Kg-dry	1	5/25/2013 03:39 AM
Phenacetin	ND		1,800	µg/Kg-dry	1	5/25/2013 03:39 AM
Phenanthrene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Phenol	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Pyrene	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Pyridine	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
Safrole	ND		910	µg/Kg-dry	1	5/25/2013 03:39 AM
<i>Surr: 2,4,6-Tribromophenol</i>	<i>91.0</i>		<i>18-115</i>	<i>%REC</i>	<i>1</i>	<i>5/25/2013 03:39 AM</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>82.5</i>		<i>30-116</i>	<i>%REC</i>	<i>1</i>	<i>5/25/2013 03:39 AM</i>
<i>Surr: 2-Fluorophenol</i>	<i>61.2</i>		<i>24-105</i>	<i>%REC</i>	<i>1</i>	<i>5/25/2013 03:39 AM</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>64.6</i>		<i>40-127</i>	<i>%REC</i>	<i>1</i>	<i>5/25/2013 03:39 AM</i>
<i>Surr: Nitrobenzene-d5</i>	<i>94.2</i>		<i>32-106</i>	<i>%REC</i>	<i>1</i>	<i>5/25/2013 03:39 AM</i>
<i>Surr: Phenol-d5</i>	<i>73.8</i>		<i>39-123</i>	<i>%REC</i>	<i>1</i>	<i>5/25/2013 03:39 AM</i>

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/24/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
1,1,1-Trichloroethane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
1,1,2,2-Tetrachloroethane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
1,1,2-Trichloroethane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
1,1-Dichloroethane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
1,1-Dichloroethene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
1,1-Dichloropropene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
1,2,3-Trichlorobenzene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
1,2,3-Trichloropropane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
1,2,4-Trichlorobenzene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
1,2,4-Trimethylbenzene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
1,2-Dibromo-3-chloropropane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-7-0001

Lab ID: 1305490-05

Collection Date: 5/21/2013 05:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
1,2-Dichlorobenzene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
1,2-Dichloroethane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
1,2-Dichloropropane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
1,3,5-Trimethylbenzene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
1,3-Dichlorobenzene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
1,3-Dichloropropane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
1,4-Dichlorobenzene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
2,2-Dichloropropane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
2-Butanone	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
2-Chlorotoluene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
2-Hexanone	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
4-Chlorotoluene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
4-Methyl-2-pentanone	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Acetone	57		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Benzene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Bromobenzene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Bromochloromethane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Bromodichloromethane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Bromoform	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Bromomethane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Carbon disulfide	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Carbon tetrachloride	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Chlorobenzene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Chloroethane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Chloroform	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Chloromethane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
cis-1,2-Dichloroethene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
cis-1,3-Dichloropropene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Dibromochloromethane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Dibromomethane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Dichlorodifluoromethane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Ethylbenzene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Hexachlorobutadiene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Isopropylbenzene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
m,p-Xylene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Methyl tert-butyl ether	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Methylene chloride	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Naphthalene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
n-Butylbenzene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-7-0001

Lab ID: 1305490-05

Collection Date: 5/21/2013 05:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
o-Xylene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
p-Isopropyltoluene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
sec-Butylbenzene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Styrene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
tert-Butylbenzene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Tetrachloroethene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Toluene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
trans-1,2-Dichloroethene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
trans-1,3-Dichloropropene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Trichloroethene	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Trichlorofluoromethane	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Vinyl chloride	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
Xylenes, Total	ND		18	µg/Kg-dry	1	5/24/2013 06:31 PM
<i>Surr: 4-Bromofluorobenzene</i>	115		62.7-159	%REC	1	5/24/2013 06:31 PM
<i>Surr: Dibromofluoromethane</i>	106		88.2-133	%REC	1	5/24/2013 06:31 PM
<i>Surr: Toluene-d8</i>	100		81.5-110	%REC	1	5/24/2013 06:31 PM
TOTAL ORGANIC CARBON BY WALKLEY-BLACK			WALKLEY-BLACK			Analyst: KMW
Total Organic Carbon	3.6		0.025	%	1	5/29/2013

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6-0001

Lab ID: 1305490-06

Collection Date: 5/21/2013 06:13 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.19	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1221	ND		0.39	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1232	ND		0.19	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1242	ND		0.19	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1248	ND		0.19	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1254	ND		0.19	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1260	ND		0.19	mg/Kg-dry	1	5/30/2013 08:19 AM
Surr: Decachlorobiphenyl	87.8		22-156	%REC	1	5/30/2013 08:19 AM
Surr: Tetrachloro-m-xylene	88.4		34-145	%REC	1	5/30/2013 08:19 AM
MOISTURE			SM2540B		Prep Date: 5/23/2013	Analyst: CTS
Moisture	48		0.010	% of sample	1	5/24/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.57	mg/Kg-dry	1	5/29/2013 04:03 PM
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Aluminum	7,900		960	mg/Kg-dry	1	5/24/2013 10:26 PM
Antimony	ND		5.8	mg/Kg-dry	1	5/24/2013 10:26 PM
Arsenic	ND		9.6	mg/Kg-dry	1	5/24/2013 10:26 PM
Barium	59		19	mg/Kg-dry	1	5/24/2013 10:26 PM
Beryllium	0.46		0.038	mg/Kg-dry	1	5/24/2013 10:26 PM
Cadmium	ND		1.9	mg/Kg-dry	1	5/24/2013 10:26 PM
Calcium	73,000		960	mg/Kg-dry	1	5/24/2013 10:26 PM
Chromium	15		3.8	mg/Kg-dry	1	5/24/2013 10:26 PM
Cobalt	ND		9.6	mg/Kg-dry	1	5/24/2013 10:26 PM
Copper	24		9.6	mg/Kg-dry	1	5/24/2013 10:26 PM
Iron	20,000		190	mg/Kg-dry	1	5/24/2013 10:26 PM
Lead	20		9.6	mg/Kg-dry	1	5/24/2013 10:26 PM
Magnesium	19,000		190	mg/Kg-dry	1	5/24/2013 10:26 PM
Manganese	280		9.6	mg/Kg-dry	1	5/24/2013 10:26 PM
Nickel	20		9.6	mg/Kg-dry	1	5/24/2013 10:26 PM
Potassium	1,200		960	mg/Kg-dry	1	5/24/2013 10:26 PM
Selenium	ND		5.8	mg/Kg-dry	1	5/24/2013 10:26 PM
Silver	ND		1.9	mg/Kg-dry	1	5/24/2013 10:26 PM
Sodium	ND		960	mg/Kg-dry	1	5/24/2013 10:26 PM
Thallium	ND		5.8	mg/Kg-dry	1	5/24/2013 10:26 PM
Vanadium	17		9.6	mg/Kg-dry	1	5/24/2013 10:26 PM
Zinc	75		9.6	mg/Kg-dry	1	5/24/2013 10:26 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/29/2013	Analyst: Microba

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6-0001

Lab ID: 1305490-06

Collection Date: 5/21/2013 06:13 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		2.9	µg/Kg	1	6/4/2013 06:29 PM
4,4'-DDE	ND		2.9	µg/Kg	1	6/4/2013 06:29 PM
4,4'-DDT	ND		2.9	µg/Kg	1	6/4/2013 06:29 PM
Aldrin	ND		2.9	µg/Kg	1	6/4/2013 06:29 PM
alpha-BHC	ND		2.9	µg/Kg	1	6/4/2013 06:29 PM
alpha-Chlordane	ND		2.9	µg/Kg	1	6/4/2013 06:29 PM
beta-BHC	ND		2.9	µg/Kg	1	6/4/2013 06:29 PM
delta-BHC	ND		2.9	µg/Kg	1	6/4/2013 06:29 PM
Dieldrin	ND		2.9	µg/Kg	1	6/4/2013 06:29 PM
Endosulfan I	ND		2.9	µg/Kg	1	6/4/2013 06:29 PM
Endosulfan II	ND		2.9	µg/Kg	1	6/4/2013 06:29 PM
Endosulfan sulfate	ND		2.9	µg/Kg	1	6/4/2013 06:29 PM
Endrin	ND		2.9	µg/Kg	1	6/4/2013 06:29 PM
Endrin aldehyde	ND		2.9	µg/Kg	1	6/4/2013 06:29 PM
Endrin ketone	ND		2.9	µg/Kg	1	6/4/2013 06:29 PM
gamma-BHC (Lindane)	ND		2.9	µg/Kg	1	6/4/2013 06:29 PM
gamma-Chlordane	ND		2.9	µg/Kg	1	6/4/2013 06:29 PM
Heptachlor	ND		2.9	µg/Kg	1	6/4/2013 06:29 PM
Heptachlor epoxide	ND		2.9	µg/Kg	1	6/4/2013 06:29 PM
Methoxychlor	ND		2.9	µg/Kg	1	6/4/2013 06:29 PM
Toxaphene	ND		59	µg/Kg	1	6/4/2013 06:29 PM
<i>Surr: Decachlorobiphenyl</i>	41.7		33-143	%REC	1	6/4/2013 06:29 PM
<i>Surr: Tetrachloro-m-xylene</i>	49.6		39-130	%REC	1	6/4/2013 06:29 PM
HERBICIDES			SW8151		Prep Date: 5/29/2013	Analyst: Microba
2,4,5-T	ND		0.080	mg/Kg	1	6/3/2013 11:22 PM
2,4,5-TP (Silvex)	ND		0.060	mg/Kg	1	6/3/2013 11:22 PM
2,4-D	ND		0.80	mg/Kg	1	6/3/2013 11:22 PM
2,4-DB	ND		0.80	mg/Kg	1	6/3/2013 11:22 PM
Dalapon	ND		2.0	mg/Kg	1	6/3/2013 11:22 PM
Dicamba	ND		0.080	mg/Kg	1	6/3/2013 11:22 PM
Dichlorprop	ND		0.80	mg/Kg	1	6/3/2013 11:22 PM
Dinoseb	ND		0.40	mg/Kg	1	6/3/2013 11:22 PM
MCPA	ND		80	mg/Kg	1	6/3/2013 11:22 PM
MCPP	ND		80	mg/Kg	1	6/3/2013 11:22 PM
Pentachlorophenol	ND		0.080	mg/Kg	1	6/3/2013 11:22 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	0		25-110	%REC	1	6/3/2013 11:22 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 5/24/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
1,2,4-Trichlorobenzene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6-0001

Lab ID: 1305490-06

Collection Date: 5/21/2013 06:13 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
1,3-Dichlorobenzene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
1,3-Dinitrobenzene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
1,4-Dichlorobenzene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
1-Methylnaphthalene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
1-Naphthylamine	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
2,3,4,6-Tetrachlorophenol	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
2,4,5-Trichlorophenol	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
2,4,6-Trichlorophenol	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
2,4-Dichlorophenol	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
2,4-Dimethylphenol	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
2,4-Dinitrophenol	ND		3,200	µg/Kg-dry	1	5/25/2013 04:12 AM
2,4-Dinitrotoluene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
2,6-Dichlorophenol	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
2,6-Dinitrotoluene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
2-Acetylaminofluorene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
2-Chloronaphthalene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
2-Chlorophenol	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
2-Methylnaphthalene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
2-Methylphenol	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
2-Naphthylamine	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
2-Nitroaniline	ND		3,200	µg/Kg-dry	1	5/25/2013 04:12 AM
2-Nitrophenol	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
2-Picoline	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
3&4-Methylphenol	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
3,3'-Dichlorobenzidine	ND		1,300	µg/Kg-dry	1	5/25/2013 04:12 AM
3-Methylcholanthrene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
3-Nitroaniline	ND		3,200	µg/Kg-dry	1	5/25/2013 04:12 AM
4,6-Dinitro-2-methylphenol	ND		3,200	µg/Kg-dry	1	5/25/2013 04:12 AM
4-Aminobiphenyl	ND		1,300	µg/Kg-dry	1	5/25/2013 04:12 AM
4-Bromophenyl phenyl ether	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
4-Chloro-3-methylphenol	ND		1,300	µg/Kg-dry	1	5/25/2013 04:12 AM
4-Chloroaniline	ND		1,300	µg/Kg-dry	1	5/25/2013 04:12 AM
4-Chlorophenyl phenyl ether	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
4-Nitroaniline	ND		1,300	µg/Kg-dry	1	5/25/2013 04:12 AM
4-Nitrophenol	ND		3,200	µg/Kg-dry	1	5/25/2013 04:12 AM
4-Nitroquinoline 1-oxide	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
5-Nitro-o-toluidine	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
7,12-Dimethylbenz(a)anthracene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Acenaphthene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6-0001

Lab ID: 1305490-06

Collection Date: 5/21/2013 06:13 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Acetophenone	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Aniline	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Anthracene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Azobenzene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Benzidine	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Benzo(a)anthracene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Benzo(a)pyrene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Benzo(b)fluoranthene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Benzo(g,h,i)perylene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Benzo(k)fluoranthene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Benzyl alcohol	ND		1,300	µg/Kg-dry	1	5/25/2013 04:12 AM
Bis(2-chloroethoxy)methane	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Bis(2-chloroethyl)ether	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Bis(2-chloroisopropyl)ether	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Bis(2-ethylhexyl)phthalate	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Butyl benzyl phthalate	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Carbazole	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Chrysene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Dibenzo(a,h)anthracene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Dibenzofuran	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Diethyl phthalate	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Dimethyl phthalate	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Di-n-butyl phthalate	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Di-n-octyl phthalate	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Dinoseb	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Diphenylamine	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Ethyl methanesulfonate	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Fluoranthene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Fluorene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Hexachlorobenzene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Hexachlorobutadiene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Hexachlorocyclopentadiene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Hexachloroethane	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Indeno(1,2,3-cd)pyrene	ND		290	µg/Kg-dry	1	5/25/2013 04:12 AM
Isophorone	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Isosafrole	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Methapyrilene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Methyl methanesulfonate	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Naphthalene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6-0001

Lab ID: 1305490-06

Collection Date: 5/21/2013 06:13 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
N-Nitrosodiethylamine	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
N-Nitrosodimethylamine	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
N-Nitroso-di-n-butylamine	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
N-Nitrosodi-n-propylamine	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
N-Nitrosomethylethylamine	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
N-Nitrosomorpholine	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
N-Nitrosopiperidine	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
N-Nitrosopyrrolidine	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
o-Toluidine	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
p-Dimethylaminoazobenzene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Pentachlorobenzene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Pentachloroethane	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Pentachloronitrobenzene	ND		1,300	µg/Kg-dry	1	5/25/2013 04:12 AM
Pentachlorophenol	ND		3,200	µg/Kg-dry	1	5/25/2013 04:12 AM
Phenacetin	ND		1,300	µg/Kg-dry	1	5/25/2013 04:12 AM
Phenanthrene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Phenol	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Pyrene	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Pyridine	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
Safrole	ND		640	µg/Kg-dry	1	5/25/2013 04:12 AM
<i>Surr: 2,4,6-Tribromophenol</i>	89.1		18-115	%REC	1	5/25/2013 04:12 AM
<i>Surr: 2-Fluorobiphenyl</i>	77.1		30-116	%REC	1	5/25/2013 04:12 AM
<i>Surr: 2-Fluorophenol</i>	58.1		24-105	%REC	1	5/25/2013 04:12 AM
<i>Surr: 4-Terphenyl-d14</i>	69.7		40-127	%REC	1	5/25/2013 04:12 AM
<i>Surr: Nitrobenzene-d5</i>	88.5		32-106	%REC	1	5/25/2013 04:12 AM
<i>Surr: Phenol-d5</i>	68.7		39-123	%REC	1	5/25/2013 04:12 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/24/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
1,1,1-Trichloroethane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
1,1,2,2-Tetrachloroethane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
1,1,2-Trichloroethane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
1,1-Dichloroethane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
1,1-Dichloroethene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
1,1-Dichloropropene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
1,2,3-Trichlorobenzene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
1,2,3-Trichloropropane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
1,2,4-Trichlorobenzene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
1,2,4-Trimethylbenzene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
1,2-Dibromo-3-chloropropane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6-0001

Lab ID: 1305490-06

Collection Date: 5/21/2013 06:13 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
1,2-Dichlorobenzene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
1,2-Dichloroethane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
1,2-Dichloropropane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
1,3,5-Trimethylbenzene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
1,3-Dichlorobenzene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
1,3-Dichloropropane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
1,4-Dichlorobenzene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
2,2-Dichloropropane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
2-Butanone	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
2-Chlorotoluene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
2-Hexanone	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
4-Chlorotoluene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
4-Methyl-2-pentanone	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Acetone	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Benzene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Bromobenzene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Bromochloromethane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Bromodichloromethane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Bromoform	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Bromomethane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Carbon disulfide	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Carbon tetrachloride	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Chlorobenzene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Chloroethane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Chloroform	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Chloromethane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
cis-1,2-Dichloroethene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
cis-1,3-Dichloropropene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Dibromochloromethane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Dibromomethane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Dichlorodifluoromethane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Ethylbenzene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Hexachlorobutadiene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Isopropylbenzene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
m,p-Xylene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Methyl tert-butyl ether	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Methylene chloride	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Naphthalene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
n-Butylbenzene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6-0001

Lab ID: 1305490-06

Collection Date: 5/21/2013 06:13 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
o-Xylene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
p-Isopropyltoluene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
sec-Butylbenzene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Styrene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
tert-Butylbenzene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Tetrachloroethene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Toluene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
trans-1,2-Dichloroethene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
trans-1,3-Dichloropropene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Trichloroethene	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Trichlorofluoromethane	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Vinyl chloride	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
Xylenes, Total	ND		11	µg/Kg-dry	1	5/29/2013 03:58 PM
<i>Surr: 4-Bromofluorobenzene</i>	101		62.7-159	%REC	1	5/29/2013 03:58 PM
<i>Surr: Dibromofluoromethane</i>	94.5		88.2-133	%REC	1	5/29/2013 03:58 PM
<i>Surr: Toluene-d8</i>	96.7		81.5-110	%REC	1	5/29/2013 03:58 PM
TOTAL ORGANIC CARBON BY WALKLEY-BLACK						
Total Organic Carbon	2.5		0.025	%	1	Analyst: KMW 5/29/2013

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6B-0001

Lab ID: 1305490-07

Collection Date: 5/21/2013

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.17	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1221	ND		0.33	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1232	ND		0.17	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1242	ND		0.17	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1248	ND		0.17	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1254	ND		0.17	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1260	ND		0.17	mg/Kg-dry	1	5/30/2013 08:19 AM
Surr: Decachlorobiphenyl	87.6		22-156	%REC	1	5/30/2013 08:19 AM
Surr: Tetrachloro-m-xylene	84.6		34-145	%REC	1	5/30/2013 08:19 AM
MOISTURE			SM2540B		Prep Date: 5/23/2013	Analyst: CTS
Moisture	40		0.010	% of sample	1	5/24/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.47	mg/Kg-dry	1	5/29/2013 04:05 PM
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Aluminum	11,000		840	mg/Kg-dry	1	5/24/2013 10:32 PM
Antimony	ND		5.0	mg/Kg-dry	1	5/24/2013 10:32 PM
Arsenic	8.9		8.4	mg/Kg-dry	1	5/24/2013 10:32 PM
Barium	71		17	mg/Kg-dry	1	5/24/2013 10:32 PM
Beryllium	0.62		0.034	mg/Kg-dry	1	5/24/2013 10:32 PM
Cadmium	ND		1.7	mg/Kg-dry	1	5/24/2013 10:32 PM
Calcium	53,000		840	mg/Kg-dry	1	5/24/2013 10:32 PM
Chromium	20		3.4	mg/Kg-dry	1	5/24/2013 10:32 PM
Cobalt	13		8.4	mg/Kg-dry	1	5/24/2013 10:32 PM
Copper	37		8.4	mg/Kg-dry	1	5/24/2013 10:32 PM
Iron	26,000		170	mg/Kg-dry	1	5/24/2013 10:32 PM
Lead	17		8.4	mg/Kg-dry	1	5/24/2013 10:32 PM
Magnesium	11,000		170	mg/Kg-dry	1	5/24/2013 10:32 PM
Manganese	350		8.4	mg/Kg-dry	1	5/24/2013 10:32 PM
Nickel	36		8.4	mg/Kg-dry	1	5/24/2013 10:32 PM
Potassium	1,600		840	mg/Kg-dry	1	5/24/2013 10:32 PM
Selenium	ND		5.0	mg/Kg-dry	1	5/24/2013 10:32 PM
Silver	ND		1.7	mg/Kg-dry	1	5/24/2013 10:32 PM
Sodium	ND		840	mg/Kg-dry	1	5/24/2013 10:32 PM
Thallium	ND		5.0	mg/Kg-dry	1	5/24/2013 10:32 PM
Vanadium	22		8.4	mg/Kg-dry	1	5/24/2013 10:32 PM
Zinc	98		8.4	mg/Kg-dry	1	5/24/2013 10:32 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/29/2013	Analyst: Microba

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6B-0001

Lab ID: 1305490-07

Collection Date: 5/21/2013

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		14	µg/Kg	1	6/4/2013 06:56 PM
4,4'-DDE	ND		14	µg/Kg	1	6/4/2013 06:56 PM
4,4'-DDT	ND		14	µg/Kg	1	6/4/2013 06:56 PM
Aldrin	ND		14	µg/Kg	1	6/4/2013 06:56 PM
alpha-BHC	ND		14	µg/Kg	1	6/4/2013 06:56 PM
alpha-Chlordane	ND		14	µg/Kg	1	6/4/2013 06:56 PM
beta-BHC	ND		14	µg/Kg	1	6/4/2013 06:56 PM
delta-BHC	ND		14	µg/Kg	1	6/4/2013 06:56 PM
Dieldrin	ND		14	µg/Kg	1	6/4/2013 06:56 PM
Endosulfan I	ND		14	µg/Kg	1	6/4/2013 06:56 PM
Endosulfan II	ND		14	µg/Kg	1	6/4/2013 06:56 PM
Endosulfan sulfate	ND		14	µg/Kg	1	6/4/2013 06:56 PM
Endrin	ND		14	µg/Kg	1	6/4/2013 06:56 PM
Endrin aldehyde	ND		14	µg/Kg	1	6/4/2013 06:56 PM
Endrin ketone	ND		14	µg/Kg	1	6/4/2013 06:56 PM
gamma-BHC (Lindane)	ND		14	µg/Kg	1	6/4/2013 06:56 PM
gamma-Chlordane	ND		14	µg/Kg	1	6/4/2013 06:56 PM
Heptachlor	ND		14	µg/Kg	1	6/4/2013 06:56 PM
Heptachlor epoxide	ND		14	µg/Kg	1	6/4/2013 06:56 PM
Methoxychlor	ND		14	µg/Kg	1	6/4/2013 06:56 PM
Toxaphene	ND		280	µg/Kg	1	6/4/2013 06:56 PM
<i>Surr: Decachlorobiphenyl</i>	44.4		33-143	%REC	1	6/4/2013 06:56 PM
<i>Surr: Tetrachloro-m-xylene</i>	40.4		39-130	%REC	1	6/4/2013 06:56 PM
HERBICIDES			SW8151		Prep Date: 5/29/2013	Analyst: Microba
2,4,5-T	ND		0.039	mg/Kg	1	6/3/2013 11:48 PM
2,4,5-TP (Silvex)	ND		0.029	mg/Kg	1	6/3/2013 11:48 PM
2,4-D	ND		0.39	mg/Kg	1	6/3/2013 11:48 PM
2,4-DB	ND		0.39	mg/Kg	1	6/3/2013 11:48 PM
Dalapon	ND		0.97	mg/Kg	1	6/3/2013 11:48 PM
Dicamba	ND		0.039	mg/Kg	1	6/3/2013 11:48 PM
Dichlorprop	ND		0.39	mg/Kg	1	6/3/2013 11:48 PM
Dinoseb	ND		0.19	mg/Kg	1	6/3/2013 11:48 PM
MCPA	ND		39	mg/Kg	1	6/3/2013 11:48 PM
MCPP	ND		39	mg/Kg	1	6/3/2013 11:48 PM
Pentachlorophenol	ND		0.039	mg/Kg	1	6/3/2013 11:48 PM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	104		25-110	%REC	1	6/3/2013 11:48 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270C		Prep Date: 5/24/2013	Analyst: JCL
1,2,4,5-Tetrachlorobenzene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
1,2,4-Trichlorobenzene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6B-0001

Lab ID: 1305490-07

Collection Date: 5/21/2013

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
1,3-Dichlorobenzene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
1,3-Dinitrobenzene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
1,4-Dichlorobenzene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
1-Methylnaphthalene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
1-Naphthylamine	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
2,3,4,6-Tetrachlorophenol	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
2,4,5-Trichlorophenol	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
2,4,6-Trichlorophenol	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
2,4-Dichlorophenol	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
2,4-Dimethylphenol	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
2,4-Dinitrophenol	ND		2,800	µg/Kg-dry	1	5/25/2013 04:45 AM
2,4-Dinitrotoluene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
2,6-Dichlorophenol	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
2,6-Dinitrotoluene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
2-Acetylaminofluorene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
2-Chloronaphthalene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
2-Chlorophenol	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
2-Methylnaphthalene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
2-Methylphenol	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
2-Naphthylamine	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
2-Nitroaniline	ND		2,800	µg/Kg-dry	1	5/25/2013 04:45 AM
2-Nitrophenol	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
2-Picoline	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
3&4-Methylphenol	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
3,3'-Dichlorobenzidine	ND		1,100	µg/Kg-dry	1	5/25/2013 04:45 AM
3-Methylcholanthrene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
3-Nitroaniline	ND		2,800	µg/Kg-dry	1	5/25/2013 04:45 AM
4,6-Dinitro-2-methylphenol	ND		2,800	µg/Kg-dry	1	5/25/2013 04:45 AM
4-Aminobiphenyl	ND		1,100	µg/Kg-dry	1	5/25/2013 04:45 AM
4-Bromophenyl phenyl ether	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
4-Chloro-3-methylphenol	ND		1,100	µg/Kg-dry	1	5/25/2013 04:45 AM
4-Chloroaniline	ND		1,100	µg/Kg-dry	1	5/25/2013 04:45 AM
4-Chlorophenyl phenyl ether	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
4-Nitroaniline	ND		1,100	µg/Kg-dry	1	5/25/2013 04:45 AM
4-Nitrophenol	ND		2,800	µg/Kg-dry	1	5/25/2013 04:45 AM
4-Nitroquinoline 1-oxide	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
5-Nitro-o-toluidine	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
7,12-Dimethylbenz(a)anthracene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Acenaphthene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6B-0001

Lab ID: 1305490-07

Collection Date: 5/21/2013

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Acetophenone	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Aniline	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Anthracene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Azobenzene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Benzidine	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Benzo(a)anthracene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Benzo(a)pyrene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Benzo(b)fluoranthene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Benzo(g,h,i)perylene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Benzo(k)fluoranthene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Benzyl alcohol	ND		1,100	µg/Kg-dry	1	5/25/2013 04:45 AM
Bis(2-chloroethoxy)methane	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Bis(2-chloroethyl)ether	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Bis(2-chloroisopropyl)ether	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Bis(2-ethylhexyl)phthalate	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Butyl benzyl phthalate	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Carbazole	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Chrysene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Dibenzo(a,h)anthracene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Dibenzofuran	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Diethyl phthalate	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Dimethyl phthalate	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Di-n-butyl phthalate	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Di-n-octyl phthalate	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Dinoseb	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Diphenylamine	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Ethyl methanesulfonate	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Fluoranthene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Fluorene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Hexachlorobenzene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Hexachlorobutadiene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Hexachlorocyclopentadiene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Hexachloroethane	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Indeno(1,2,3-cd)pyrene	ND		250	µg/Kg-dry	1	5/25/2013 04:45 AM
Isophorone	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Isosafrole	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Methapyrilene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Methyl methanesulfonate	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Naphthalene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6B-0001

Lab ID: 1305490-07

Collection Date: 5/21/2013

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
N-Nitrosodiethylamine	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
N-Nitrosodimethylamine	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
N-Nitroso-di-n-butylamine	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
N-Nitrosodi-n-propylamine	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
N-Nitrosomethylethylamine	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
N-Nitrosomorpholine	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
N-Nitrosopiperidine	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
N-Nitrosopyrrolidine	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
o-Toluidine	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
p-Dimethylaminoazobenzene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Pentachlorobenzene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Pentachloroethane	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Pentachloronitrobenzene	ND		1,100	µg/Kg-dry	1	5/25/2013 04:45 AM
Pentachlorophenol	ND		2,800	µg/Kg-dry	1	5/25/2013 04:45 AM
Phenacetin	ND		1,100	µg/Kg-dry	1	5/25/2013 04:45 AM
Phenanthrene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Phenol	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Pyrene	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Pyridine	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Safrole	ND		550	µg/Kg-dry	1	5/25/2013 04:45 AM
Surr: 2,4,6-Tribromophenol	85.6		18-115	%REC	1	5/25/2013 04:45 AM
Surr: 2-Fluorobiphenyl	74.1		30-116	%REC	1	5/25/2013 04:45 AM
Surr: 2-Fluorophenol	56.9		24-105	%REC	1	5/25/2013 04:45 AM
Surr: 4-Terphenyl-d14	65.4		40-127	%REC	1	5/25/2013 04:45 AM
Surr: Nitrobenzene-d5	84.3		32-106	%REC	1	5/25/2013 04:45 AM
Surr: Phenol-d5	66.8		39-123	%REC	1	5/25/2013 04:45 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/24/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
1,1,1-Trichloroethane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
1,1,2,2-Tetrachloroethane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
1,1,2-Trichloroethane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
1,1-Dichloroethane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
1,1-Dichloroethene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
1,1-Dichloropropene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
1,2,3-Trichlorobenzene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
1,2,3-Trichloropropane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
1,2,4-Trichlorobenzene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
1,2,4-Trimethylbenzene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
1,2-Dibromo-3-chloropropane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6B-0001

Lab ID: 1305490-07

Collection Date: 5/21/2013

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
1,2-Dichlorobenzene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
1,2-Dichloroethane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
1,2-Dichloropropane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
1,3,5-Trimethylbenzene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
1,3-Dichlorobenzene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
1,3-Dichloropropane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
1,4-Dichlorobenzene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
2,2-Dichloropropane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
2-Butanone	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
2-Chlorotoluene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
2-Hexanone	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
4-Chlorotoluene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
4-Methyl-2-pentanone	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Acetone	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Benzene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Bromobenzene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Bromochloromethane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Bromodichloromethane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Bromoform	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Bromomethane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Carbon disulfide	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Carbon tetrachloride	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Chlorobenzene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Chloroethane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Chloroform	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Chloromethane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
cis-1,2-Dichloroethene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
cis-1,3-Dichloropropene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Dibromochloromethane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Dibromomethane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Dichlorodifluoromethane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Ethylbenzene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Hexachlorobutadiene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Isopropylbenzene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
m,p-Xylene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Methyl tert-butyl ether	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Methylene chloride	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Naphthalene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
n-Butylbenzene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-6B-0001

Lab ID: 1305490-07

Collection Date: 5/21/2013

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
o-Xylene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
p-Isopropyltoluene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
sec-Butylbenzene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Styrene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
tert-Butylbenzene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Tetrachloroethene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Toluene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
trans-1,2-Dichloroethene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
trans-1,3-Dichloropropene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Trichloroethene	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Trichlorofluoromethane	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Vinyl chloride	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
Xylenes, Total	ND		8.1	µg/Kg-dry	1	5/29/2013 04:29 PM
<i>Surr: 4-Bromofluorobenzene</i>	106		62.7-159	%REC	1	5/29/2013 04:29 PM
<i>Surr: Dibromofluoromethane</i>	106		88.2-133	%REC	1	5/29/2013 04:29 PM
<i>Surr: Toluene-d8</i>	96.7		81.5-110	%REC	1	5/29/2013 04:29 PM
TOTAL ORGANIC CARBON BY WALKLEY-BLACK						
Total Organic Carbon	1.7		0.025	%	1	Analyst: KMW 5/29/2013

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-4-0001

Lab ID: 1305490-08

Collection Date: 5/22/2013 08:35 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.13	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1221	ND		0.26	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1248	ND		0.13	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1254	ND		0.13	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	5/30/2013 08:19 AM
Surr: Decachlorobiphenyl	88.0		22-156	%REC	1	5/30/2013 08:19 AM
Surr: Tetrachloro-m-xylene	82.6		34-145	%REC	1	5/30/2013 08:19 AM
MOISTURE			SM2540B		Prep Date: 5/23/2013	Analyst: CTS
Moisture	22		0.010	% of sample	1	5/24/2013
MERCURY BY CVAA			SW7471A		Prep Date: 5/23/2013	Analyst: SLW
Mercury	ND		0.38	mg/Kg-dry	1	5/29/2013 04:12 PM
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Aluminum	11,000		640	mg/Kg-dry	1	5/24/2013 10:38 PM
Antimony	ND		3.8	mg/Kg-dry	1	5/24/2013 10:38 PM
Arsenic	14		6.4	mg/Kg-dry	1	5/24/2013 10:38 PM
Barium	150		13	mg/Kg-dry	1	5/24/2013 10:38 PM
Beryllium	0.61		0.026	mg/Kg-dry	1	5/24/2013 10:38 PM
Cadmium	ND		1.3	mg/Kg-dry	1	5/24/2013 10:38 PM
Calcium	57,000		640	mg/Kg-dry	1	5/24/2013 10:38 PM
Chromium	20		2.6	mg/Kg-dry	1	5/24/2013 10:38 PM
Cobalt	11		6.4	mg/Kg-dry	1	5/24/2013 10:38 PM
Copper	25		6.4	mg/Kg-dry	1	5/24/2013 10:38 PM
Iron	36,000		130	mg/Kg-dry	1	5/24/2013 10:38 PM
Lead	11		6.4	mg/Kg-dry	1	5/24/2013 10:38 PM
Magnesium	17,000		130	mg/Kg-dry	1	5/24/2013 10:38 PM
Manganese	420		6.4	mg/Kg-dry	1	5/24/2013 10:38 PM
Nickel	30		6.4	mg/Kg-dry	1	5/24/2013 10:38 PM
Potassium	1,800		640	mg/Kg-dry	1	5/24/2013 10:38 PM
Selenium	ND		3.8	mg/Kg-dry	1	5/24/2013 10:38 PM
Silver	ND		1.3	mg/Kg-dry	1	5/24/2013 10:38 PM
Sodium	ND		640	mg/Kg-dry	1	5/24/2013 10:38 PM
Thallium	ND		3.8	mg/Kg-dry	1	5/24/2013 10:38 PM
Vanadium	23		6.4	mg/Kg-dry	1	5/24/2013 10:38 PM
Zinc	61		6.4	mg/Kg-dry	1	5/24/2013 10:38 PM
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/29/2013	Analyst: Microba

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-4-0001

Lab ID: 1305490-08

Collection Date: 5/22/2013 08:35 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		2.0	µg/Kg	1	6/4/2013 07:24 PM
4,4'-DDE	ND		2.0	µg/Kg	1	6/4/2013 07:24 PM
4,4'-DDT	ND		2.0	µg/Kg	1	6/4/2013 07:24 PM
Aldrin	ND		2.0	µg/Kg	1	6/4/2013 07:24 PM
alpha-BHC	ND		2.0	µg/Kg	1	6/4/2013 07:24 PM
alpha-Chlordane	ND		2.0	µg/Kg	1	6/4/2013 07:24 PM
beta-BHC	ND		2.0	µg/Kg	1	6/4/2013 07:24 PM
delta-BHC	ND		2.0	µg/Kg	1	6/4/2013 07:24 PM
Dieldrin	ND		2.0	µg/Kg	1	6/4/2013 07:24 PM
Endosulfan I	ND		2.0	µg/Kg	1	6/4/2013 07:24 PM
Endosulfan II	ND		2.0	µg/Kg	1	6/4/2013 07:24 PM
Endosulfan sulfate	ND		2.0	µg/Kg	1	6/4/2013 07:24 PM
Endrin	ND		2.0	µg/Kg	1	6/4/2013 07:24 PM
Endrin aldehyde	ND		2.0	µg/Kg	1	6/4/2013 07:24 PM
Endrin ketone	ND		2.0	µg/Kg	1	6/4/2013 07:24 PM
gamma-BHC (Lindane)	ND		2.0	µg/Kg	1	6/4/2013 07:24 PM
gamma-Chlordane	ND		2.0	µg/Kg	1	6/4/2013 07:24 PM
Heptachlor	ND		2.0	µg/Kg	1	6/4/2013 07:24 PM
Heptachlor epoxide	ND		2.0	µg/Kg	1	6/4/2013 07:24 PM
Methoxychlor	ND		2.0	µg/Kg	1	6/4/2013 07:24 PM
Toxaphene	ND		20	µg/Kg	1	6/4/2013 07:24 PM
<i>Surr: Decachlorobiphenyl</i>	58.5		33-143	%REC	1	6/4/2013 07:24 PM
<i>Surr: Tetrachloro-m-xylene</i>	46.4		39-130	%REC	1	6/4/2013 07:24 PM

HERBICIDES

SW8151

Prep Date: 5/29/2013

Analyst: Microba

2,4,5-T	ND		0.0054	mg/Kg	1	6/4/2013 12:14 AM
2,4,5-TP (Silvex)	ND		0.0040	mg/Kg	1	6/4/2013 12:14 AM
2,4-D	ND		0.054	mg/Kg	1	6/4/2013 12:14 AM
2,4-DB	ND		0.054	mg/Kg	1	6/4/2013 12:14 AM
Dalapon	ND		0.13	mg/Kg	1	6/4/2013 12:14 AM
Dicamba	ND		0.0054	mg/Kg	1	6/4/2013 12:14 AM
Dichlorprop	ND		0.054	mg/Kg	1	6/4/2013 12:14 AM
Dinoseb	ND		0.027	mg/Kg	1	6/4/2013 12:14 AM
MCPA	ND		5.4	mg/Kg	1	6/4/2013 12:14 AM
MCPP	ND		5.4	mg/Kg	1	6/4/2013 12:14 AM
Pentachlorophenol	ND		0.0054	mg/Kg	1	6/4/2013 12:14 AM
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	102		25-110	%REC	1	6/4/2013 12:14 AM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 5/24/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
1,2,4-Trichlorobenzene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-4-0001

Lab ID: 1305490-08

Collection Date: 5/22/2013 08:35 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
1,3-Dichlorobenzene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
1,3-Dinitrobenzene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
1,4-Dichlorobenzene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
1-Methylnaphthalene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
1-Naphthylamine	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
2,3,4,6-Tetrachlorophenol	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
2,4,5-Trichlorophenol	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
2,4,6-Trichlorophenol	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
2,4-Dichlorophenol	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
2,4-Dimethylphenol	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
2,4-Dinitrophenol	ND		2,100	µg/Kg-dry	1	5/25/2013 05:18 AM
2,4-Dinitrotoluene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
2,6-Dichlorophenol	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
2,6-Dinitrotoluene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
2-Acetylaminofluorene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
2-Chloronaphthalene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
2-Chlorophenol	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
2-Methylnaphthalene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
2-Methylphenol	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
2-Naphthylamine	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
2-Nitroaniline	ND		2,100	µg/Kg-dry	1	5/25/2013 05:18 AM
2-Nitrophenol	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
2-Picoline	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
3&4-Methylphenol	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
3,3'-Dichlorobenzidine	ND		850	µg/Kg-dry	1	5/25/2013 05:18 AM
3-Methylcholanthrene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
3-Nitroaniline	ND		2,100	µg/Kg-dry	1	5/25/2013 05:18 AM
4,6-Dinitro-2-methylphenol	ND		2,100	µg/Kg-dry	1	5/25/2013 05:18 AM
4-Aminobiphenyl	ND		850	µg/Kg-dry	1	5/25/2013 05:18 AM
4-Bromophenyl phenyl ether	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
4-Chloro-3-methylphenol	ND		850	µg/Kg-dry	1	5/25/2013 05:18 AM
4-Chloroaniline	ND		850	µg/Kg-dry	1	5/25/2013 05:18 AM
4-Chlorophenyl phenyl ether	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
4-Nitroaniline	ND		850	µg/Kg-dry	1	5/25/2013 05:18 AM
4-Nitrophenol	ND		2,100	µg/Kg-dry	1	5/25/2013 05:18 AM
4-Nitroquinoline 1-oxide	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
5-Nitro-o-toluidine	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
7,12-Dimethylbenz(a)anthracene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Acenaphthene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-4-0001

Lab ID: 1305490-08

Collection Date: 5/22/2013 08:35 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Acetophenone	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Aniline	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Anthracene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Azobenzene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Benzidine	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Benzo(a)anthracene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Benzo(a)pyrene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Benzo(b)fluoranthene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Benzo(g,h,i)perylene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Benzo(k)fluoranthene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Benzyl alcohol	ND		850	µg/Kg-dry	1	5/25/2013 05:18 AM
Bis(2-chloroethoxy)methane	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Bis(2-chloroethyl)ether	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Bis(2-chloroisopropyl)ether	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Bis(2-ethylhexyl)phthalate	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Butyl benzyl phthalate	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Carbazole	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Chrysene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Dibenzo(a,h)anthracene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Dibenzofuran	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Diethyl phthalate	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Dimethyl phthalate	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Di-n-butyl phthalate	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Di-n-octyl phthalate	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Dinoseb	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Diphenylamine	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Ethyl methanesulfonate	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Fluoranthene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Fluorene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Hexachlorobenzene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Hexachlorobutadiene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Hexachlorocyclopentadiene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Hexachloroethane	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Indeno(1,2,3-cd)pyrene	ND		190	µg/Kg-dry	1	5/25/2013 05:18 AM
Isophorone	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Isosafrole	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Methapyrilene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Methyl methanesulfonate	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Naphthalene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-4-0001

Lab ID: 1305490-08

Collection Date: 5/22/2013 08:35 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
N-Nitrosodiethylamine	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
N-Nitrosodimethylamine	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
N-Nitroso-di-n-butylamine	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
N-Nitrosodi-n-propylamine	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
N-Nitrosomethylethylamine	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
N-Nitrosomorpholine	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
N-Nitrosopiperidine	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
N-Nitrosopyrrolidine	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
o-Toluidine	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
p-Dimethylaminoazobenzene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Pentachlorobenzene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Pentachloroethane	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Pentachloronitrobenzene	ND		850	µg/Kg-dry	1	5/25/2013 05:18 AM
Pentachlorophenol	ND		2,100	µg/Kg-dry	1	5/25/2013 05:18 AM
Phenacetin	ND		850	µg/Kg-dry	1	5/25/2013 05:18 AM
Phenanthrene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Phenol	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Pyrene	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Pyridine	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Safrole	ND		420	µg/Kg-dry	1	5/25/2013 05:18 AM
Surr: 2,4,6-Tribromophenol	77.0		18-115	%REC	1	5/25/2013 05:18 AM
Surr: 2-Fluorobiphenyl	73.6		30-116	%REC	1	5/25/2013 05:18 AM
Surr: 2-Fluorophenol	55.9		24-105	%REC	1	5/25/2013 05:18 AM
Surr: 4-Terphenyl-d14	62.2		40-127	%REC	1	5/25/2013 05:18 AM
Surr: Nitrobenzene-d5	84.3		32-106	%REC	1	5/25/2013 05:18 AM
Surr: Phenol-d5	65.5		39-123	%REC	1	5/25/2013 05:18 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Prep Date: 5/24/2013

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
1,1,1-Trichloroethane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
1,1,2,2-Tetrachloroethane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
1,1,2-Trichloroethane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
1,1-Dichloroethane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
1,1-Dichloroethene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
1,1-Dichloropropene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
1,2,3-Trichlorobenzene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
1,2,3-Trichloropropane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
1,2,4-Trichlorobenzene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
1,2,4-Trimethylbenzene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
1,2-Dibromo-3-chloropropane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-4-0001

Lab ID: 1305490-08

Collection Date: 5/22/2013 08:35 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
1,2-Dichlorobenzene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
1,2-Dichloroethane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
1,2-Dichloropropane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
1,3,5-Trimethylbenzene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
1,3-Dichlorobenzene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
1,3-Dichloropropane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
1,4-Dichlorobenzene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
2,2-Dichloropropane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
2-Butanone	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
2-Chlorotoluene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
2-Hexanone	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
4-Chlorotoluene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
4-Methyl-2-pentanone	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Acetone	20		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Benzene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Bromobenzene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Bromochloromethane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Bromodichloromethane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Bromoform	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Bromomethane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Carbon disulfide	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Carbon tetrachloride	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Chlorobenzene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Chloroethane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Chloroform	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Chloromethane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
cis-1,2-Dichloroethene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
cis-1,3-Dichloropropene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Dibromochloromethane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Dibromomethane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Dichlorodifluoromethane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Ethylbenzene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Hexachlorobutadiene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Isopropylbenzene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
m,p-Xylene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Methyl tert-butyl ether	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Methylene chloride	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Naphthalene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
n-Butylbenzene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SED-4-0001

Lab ID: 1305490-08

Collection Date: 5/22/2013 08:35 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
o-Xylene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
p-Isopropyltoluene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
sec-Butylbenzene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Styrene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
tert-Butylbenzene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Tetrachloroethene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Toluene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
trans-1,2-Dichloroethene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
trans-1,3-Dichloropropene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Trichloroethene	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Trichlorofluoromethane	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Vinyl chloride	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
Xylenes, Total	ND		4.3	µg/Kg-dry	1	5/29/2013 05:00 PM
<i>Surr: 4-Bromofluorobenzene</i>	105		62.7-159	%REC	1	5/29/2013 05:00 PM
<i>Surr: Dibromofluoromethane</i>	108		88.2-133	%REC	1	5/29/2013 05:00 PM
<i>Surr: Toluene-d8</i>	97.7		81.5-110	%REC	1	5/29/2013 05:00 PM
TOTAL ORGANIC CARBON BY WALKLEY-BLACK						
Total Organic Carbon	0.25		0.025	%	1	Analyst: KMW 5/29/2013

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305490

Analytical Comments

Method	Type:	SampID	SeqNo	Analysis	Comments
Batch <u>16886</u>					
	Analysis	1305490-14A	617647	PCBs	Elevated detection limit was due to matrix interference
Batch <u>R99836</u>					
	Analysis	1305490-05C	627995	Organochlorine Pesticides	Ran at 20X dilution; Surrogate diluted out
	Analysis	1305490-07C	627997	Organochlorine Pesticides	Ran at 5X dilution
Batch <u>R99840a</u>					
	Analysis	1305490-05C	628155	Herbicides	Analyzed at 20X dilution, surrogate diluted out
	Analysis	1305490-06C	628156	Herbicides	Analyzed at 10X dilution, surrogate diluted out
	Analysis	1305490-07C	628157	Herbicides	Analyzed at 5X dilution

Client: AECOM

QC BATCH REPORT

Work Order: 1305490

Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

Batch ID: **16791**

Instrument ID: **GC9**

Method: **SW8082**

MBLK		Sample ID: MBLK-16791-16791			Units: µg/L		Analysis Date: 5/24/2013			
Client ID:		Run ID: GC9_130524A			SeqNo: 615464		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.50								
Aroclor 1221	ND	0.50								
Aroclor 1232	ND	0.50								
Aroclor 1242	ND	0.50								
Aroclor 1248	ND	0.50								
Aroclor 1254	ND	0.50								
Aroclor 1260	ND	0.50								
<i>Surr: Decachlorobiphenyl</i>	0.2	0	0.25	0	80	37-108	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.188	0	0.25	0	75.2	9-136	0			

LCS		Sample ID: LCS-16791-16791			Units: µg/L		Analysis Date: 5/24/2013			
Client ID:		Run ID: GC9_130524A			SeqNo: 615465		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	9.787	0.50	10	0	97.9	61-122	0			
<i>Surr: Decachlorobiphenyl</i>	0.192	0	0.25	0	76.8	37-108	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.196	0	0.25	0	78.4	9-136	0			

The following samples were analyzed in this batch:

1305490-01D	1305490-02D	1305490-03D
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16886 Instrument ID: GC9 Method: SW8082

MBLK		Sample ID: MBLK-16886-16886			Units: mg/Kg		Analysis Date: 5/30/2013 08:19 AM			
Client ID:		Run ID: GC9_130530A			SeqNo: 617623		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Surr: Decachlorobiphenyl	0.0922	0	0.1	0	92.2	22-156	0			
Surr: Tetrachloro-m-xylene	0.0926	0	0.1	0	92.6	34-145	0			

LCS		Sample ID: LCS-16886-16886			Units: mg/Kg		Analysis Date: 5/30/2013 08:19 AM			
Client ID:		Run ID: GC9_130530A			SeqNo: 617624		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.165	0.10	2	0	108	50-133	0			
Surr: Decachlorobiphenyl	0.095	0	0.1	0	95	22-156	0			
Surr: Tetrachloro-m-xylene	0.0938	0	0.1	0	93.8	34-145	0			

MS		Sample ID: 1305490-17AMS			Units: mg/Kg		Analysis Date: 5/30/2013 08:19 AM			
Client ID: ASTW-S1-0001		Run ID: GC9_130530A			SeqNo: 617639		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.302	0.10	2.004	0	115	31-150	0			
Surr: Decachlorobiphenyl	0.0986	0	0.1002	0	98.4	22-156	0			
Surr: Tetrachloro-m-xylene	0.09118	0	0.1002	0	91	34-145	0			

MSD		Sample ID: 1305490-17AMSD			Units: mg/Kg		Analysis Date: 5/30/2013 08:19 AM			
Client ID: ASTW-S1-0001		Run ID: GC9_130530A			SeqNo: 617640		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.196	0.099	1.988	0	110	31-150	2.302	4.7	53	
Surr: Decachlorobiphenyl	0.09105	0	0.0994	0	91.6	22-156	0.0986	7.96		
Surr: Tetrachloro-m-xylene	0.08807	0	0.0994	0	88.6	34-145	0.09118	3.47		

The following samples were analyzed in this batch:

1305490-04B	1305490-05B	1305490-06B
1305490-07B	1305490-08B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16799** Instrument ID: **HG1** Method: **SW7471A**

MBLK	Sample ID: MBLK-16799-16799	Units: mg/Kg					Analysis Date: 5/29/2013 03:53 PM			
Client ID:	Run ID: HG1_130529A	SeqNo: 617326			Prep Date: 5/23/2013		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.30

LCS	Sample ID: LCS-16799-16799	Units: mg/Kg					Analysis Date: 5/29/2013 03:49 PM			
Client ID:	Run ID: HG1_130529A	SeqNo: 617324			Prep Date: 5/23/2013		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 1.315 0.29 1.085 0 121 69-147 0

LCSD	Sample ID: LCSD-16799-16799	Units: mg/Kg					Analysis Date: 5/29/2013 03:51 PM			
Client ID:	Run ID: HG1_130529A	SeqNo: 617325			Prep Date: 5/23/2013		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 1.444 0.27 1.026 0 141 69-147 1.315 9.33 20

MS	Sample ID: 1305490-04B MS	Units: mg/Kg					Analysis Date: 5/29/2013 03:57 PM			
Client ID: SED-8-0001	Run ID: HG1_130529A	SeqNo: 617328			Prep Date: 5/23/2013		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.8657 0.29 0.8133 0.04527 101 69-147 0

MSD	Sample ID: 1305490-04B MSD	Units: mg/Kg					Analysis Date: 5/29/2013 03:59 PM			
Client ID: SED-8-0001	Run ID: HG1_130529A	SeqNo: 617329			Prep Date: 5/23/2013		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.8352 0.29 0.7921 0.04527 99.7 69-147 0.8657 3.59 20

The following samples were analyzed in this batch:

1305490-04B	1305490-05B	1305490-06B
1305490-07B	1305490-08B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16800** Instrument ID: **HG1** Method: **SW7470A**

MBLK		Sample ID: MBLK-16800-16800			Units: µg/L		Analysis Date: 5/28/2013 05:38 PM			
Client ID:		Run ID: HG1_130528C			SeqNo: 616102		Prep Date: 5/27/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.50								

LCS		Sample ID: LCS-16800-16800			Units: µg/L		Analysis Date: 5/28/2013 05:34 PM			
Client ID:		Run ID: HG1_130528C			SeqNo: 616100		Prep Date: 5/27/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.98	0.50	5	0	99.6	80-120	0			

LCSD		Sample ID: LCSD-16800-16800			Units: µg/L		Analysis Date: 5/28/2013 05:36 PM			
Client ID:		Run ID: HG1_130528C			SeqNo: 616101		Prep Date: 5/27/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.87	0.50	5	0	97.4	80-120	4.98	2.23	20	

MS		Sample ID: 1305448-01C MS			Units: µg/L		Analysis Date: 5/28/2013 05:42 PM			
Client ID:		Run ID: HG1_130528C			SeqNo: 616104		Prep Date: 5/27/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.68	0.50	5	-0.04	94.4	75-125	0			

MSD		Sample ID: 1305448-01C MSD			Units: µg/L		Analysis Date: 5/28/2013 05:44 PM			
Client ID:		Run ID: HG1_130528C			SeqNo: 616105		Prep Date: 5/27/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.89	0.50	5	-0.04	98.6	75-125	4.68	4.39	20	

The following samples were analyzed in this batch:

1305490-01B	1305490-02B	1305490-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16801 Instrument ID: ICP3 Method: SW6010B

MBLK	Sample ID: mblk-16801-16801	Units: mg/L		Analysis Date: 5/24/2013 04:24 PM						
Client ID:	Run ID: ICP3_130524A	SeqNo: 615050		Prep Date: 5/23/2013	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.20								
Antimony	ND	0.030								
Arsenic	ND	0.010								
Barium	ND	0.10								
Beryllium	ND	0.00040								
Cadmium	ND	0.0050								
Calcium	ND	0.20								
Chromium	ND	0.020								
Cobalt	ND	0.025								
Copper	ND	0.025								
Iron	ND	0.20								
Lead	ND	0.015								
Magnesium	ND	0.20								
Manganese	ND	0.050								
Nickel	ND	0.050								
Potassium	ND	0.20								
Selenium	ND	0.030								
Silver	ND	0.010								
Sodium	ND	0.20								
Thallium	ND	0.0020								
Vanadium	ND	0.050								
Zinc	ND	0.050								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16801** Instrument ID: **ICP3** Method: **SW6010B**

LCS		Sample ID: ics-16801-16801			Units: mg/L		Analysis Date: 5/24/2013 04:30 PM			
Client ID:		Run ID: ICP3_130524A			SeqNo: 615051		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.166	0.20	1.1	0	106	80-120	0			
Antimony	1.074	0.030	1.1	0	97.6	80-120	0			
Arsenic	1.109	0.010	1.1	0	101	80-120	0			
Barium	1.137	0.10	1.1	0	103	80-120	0			
Beryllium	1.106	0.00040	1.1	0	100	80-120	0			
Cadmium	1.12	0.0050	1.1	0	102	80-120	0			
Calcium	1.093	0.20	1.1	0	99.4	80-120	0			
Chromium	1.118	0.020	1.1	0	102	80-120	0			
Cobalt	1.08	0.025	1.1	0	98.2	80-120	0			
Copper	1.061	0.025	1.1	0	96.5	80-120	0			
Iron	1.118	0.20	1.1	0	102	80-120	0			
Lead	1.133	0.015	1.1	0	103	80-120	0			
Magnesium	1.094	0.20	1.1	0	99.5	80-120	0			
Manganese	1.078	0.050	1.1	0	98	80-120	0			
Nickel	1.082	0.050	1.1	0	98.4	80-120	0			
Potassium	11.01	0.20	11	0	100	80-120	0			
Selenium	1.109	0.030	1.1	0	101	80-120	0			
Silver	1.123	0.010	1.1	0	102	80-120	0			
Sodium	1.198	0.20	1.1	0	109	80-120	0			
Thallium	1.064	0.0020	1.1	0	96.8	80-120	0			
Vanadium	1.087	0.050	1.1	0	98.8	80-120	0			
Zinc	1.111	0.050	1.1	0	101	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16801 Instrument ID: ICP3 Method: SW6010B

LCSD	Sample ID: Icsd-16801-16801			Units: mg/L			Analysis Date: 5/24/2013 04:36 PM			
Client ID:	Run ID: ICP3_130524A			SeqNo: 615052			Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.141	0.20	1.1	0	104	80-120	1.166	2.19	20	
Antimony	1.069	0.030	1.1	0	97.2	80-120	1.074	0.431	20	
Arsenic	1.101	0.010	1.1	0	100	80-120	1.109	0.697	20	
Barium	1.137	0.10	1.1	0	103	80-120	1.137	0	20	
Beryllium	1.084	0.00040	1.1	0	98.5	80-120	1.106	2.01	20	
Cadmium	1.119	0.0050	1.1	0	102	80-120	1.12	0.0983	20	
Calcium	1.085	0.20	1.1	0	98.7	80-120	1.093	0.727	20	
Chromium	1.1	0.020	1.1	0	100	80-120	1.118	1.59	20	
Cobalt	1.075	0.025	1.1	0	97.7	80-120	1.08	0.49	20	
Copper	1.061	0.025	1.1	0	96.4	80-120	1.061	0.0726	20	
Iron	1.103	0.20	1.1	0	100	80-120	1.118	1.29	20	
Lead	1.125	0.015	1.1	0	102	80-120	1.133	0.682	20	
Magnesium	1.058	0.20	1.1	0	96.2	80-120	1.094	3.39	20	
Manganese	1.067	0.050	1.1	0	97	80-120	1.078	1.03	20	
Nickel	1.073	0.050	1.1	0	97.6	80-120	1.082	0.857	20	
Potassium	10.89	0.20	11	0	99	80-120	11.01	1.13	20	
Selenium	1.108	0.030	1.1	0	101	80-120	1.109	0.0993	20	
Silver	1.119	0.010	1.1	0	102	80-120	1.123	0.393	20	
Sodium	1.211	0.20	1.1	0	110	80-120	1.198	1.1	20	
Thallium	1.053	0.0020	1.1	0	95.7	80-120	1.064	1.05	20	
Vanadium	1.069	0.050	1.1	0	97.2	80-120	1.087	1.62	20	
Zinc	1.094	0.050	1.1	0	99.5	80-120	1.111	1.54	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16801 Instrument ID: ICP3 Method: SW6010B

MS		Sample ID: 1305490-01b ms			Units: mg/L		Analysis Date: 5/24/2013 05:01 PM			
Client ID: SW-8-052113		Run ID: ICP3_130524A			SeqNo: 615054		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.24	0.20	1.1	0.07725	106	75-125	0			
Antimony	1.076	0.030	1.1	0.001665	97.7	75-125	0			
Arsenic	1.14	0.010	1.1	-0.0006482	104	75-125	0			
Barium	1.197	0.10	1.1	0.1037	99.4	75-125	0			
Beryllium	1.13	0.00040	1.1	0.00004177	103	75-125	0			
Cadmium	1.106	0.0050	1.1	0.00017	100	75-125	0			
Calcium	135	0.20	1.1	138.8	-350	75-125	0			SO
Chromium	1.07	0.020	1.1	0.003135	97	75-125	0			
Cobalt	1.016	0.025	1.1	0.0002892	92.4	75-125	0			
Copper	1.016	0.025	1.1	0.001343	92.3	75-125	0			
Iron	1.451	0.20	1.1	0.3448	101	75-125	0			
Lead	1.045	0.015	1.1	0.002898	94.7	75-125	0			
Magnesium	30.74	0.20	1.1	31.04	-27	75-125	0			SO
Manganese	1.204	0.050	1.1	0.1433	96.5	75-125	0			
Nickel	1.023	0.050	1.1	0.01494	91.6	75-125	0			
Potassium	15.61	0.20	11	4.137	104	75-125	0			
Selenium	1.125	0.030	1.1	-0.002956	103	75-125	0			
Silver	1.092	0.010	1.1	0.0003884	99.2	75-125	0			
Sodium	127.6	0.20	1.1	129.4	-160	75-125	0			SO
Thallium	0.9625	0.0020	1.1	0.0002259	87.5	75-125	0			
Vanadium	1.109	0.050	1.1	-0.00341	101	75-125	0			
Zinc	1.088	0.050	1.1	0.03238	95.9	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16801 Instrument ID: ICP3 Method: SW6010B

MSD		Sample ID: 1305490-01b msd			Units: mg/L		Analysis Date: 5/24/2013 05:07 PM			
Client ID: SW-8-052113		Run ID: ICP3_130524A			SeqNo: 615055		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.24	0.20	1.1	0.07725	106	75-125	1.24	0	20	
Antimony	1.068	0.030	1.1	0.001665	96.9	75-125	1.076	0.79	20	
Arsenic	1.135	0.010	1.1	-0.0006482	103	75-125	1.14	0.387	20	
Barium	1.192	0.10	1.1	0.1037	99	75-125	1.197	0.368	20	
Beryllium	1.132	0.00040	1.1	0.00004177	103	75-125	1.13	0.195	20	
Cadmium	1.093	0.0050	1.1	0.00017	99.4	75-125	1.106	1.12	20	
Calcium	135.8	0.20	1.1	138.8	-270	75-125	135	0.65	20	SO
Chromium	1.075	0.020	1.1	0.003135	97.4	75-125	1.07	0.503	20	
Cobalt	1.006	0.025	1.1	0.0002892	91.5	75-125	1.016	0.968	20	
Copper	1.003	0.025	1.1	0.001343	91.1	75-125	1.016	1.29	20	
Iron	1.453	0.20	1.1	0.3448	101	75-125	1.451	0.152	20	
Lead	1.036	0.015	1.1	0.002898	93.9	75-125	1.045	0.846	20	
Magnesium	31.3	0.20	1.1	31.04	23	75-125	30.74	1.77	20	SO
Manganese	1.194	0.050	1.1	0.1433	95.5	75-125	1.204	0.917	20	
Nickel	1.019	0.050	1.1	0.01494	91.3	75-125	1.023	0.377	20	
Potassium	15.37	0.20	11	4.137	102	75-125	15.61	1.56	20	
Selenium	1.121	0.030	1.1	-0.002956	102	75-125	1.125	0.392	20	
Silver	1.088	0.010	1.1	0.0003884	98.9	75-125	1.092	0.333	20	
Sodium	125.3	0.20	1.1	129.4	-370	75-125	127.6	1.83	20	SO
Thallium	0.956	0.0020	1.1	0.0002259	86.9	75-125	0.9625	0.677	20	
Vanadium	1.103	0.050	1.1	-0.00341	101	75-125	1.109	0.497	20	
Zinc	1.083	0.050	1.1	0.03238	95.5	75-125	1.088	0.476	20	

The following samples were analyzed in this batch:

1305490-01b	1305490-02b	1305490-03b
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16814 Instrument ID: ICP3 Method: SW6010B

MBLK	Sample ID: mblk-16814-16814	Units: mg/Kg		Analysis Date: 5/24/2013 09:43 PM						
Client ID:	Run ID: ICP3_130524A	SeqNo: 615253		Prep Date: 5/24/2013	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500								
Antimony	ND	3.0								
Arsenic	ND	5.0								
Barium	ND	10								
Beryllium	ND	0.50								
Cadmium	ND	1.0								
Calcium	ND	500								
Chromium	ND	2.0								
Cobalt	ND	5.0								
Copper	ND	5.0								
Iron	ND	100								
Lead	ND	5.0								
Magnesium	ND	100								
Manganese	ND	5.0								
Nickel	ND	5.0								
Potassium	ND	500								
Selenium	ND	3.0								
Silver	ND	1.0								
Sodium	ND	500								
Thallium	ND	3.0								
Vanadium	ND	5.0								
Zinc	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16814 Instrument ID: ICP3 Method: SW6010B

LCS		Sample ID: Ics-16814-16814			Units: mg/Kg		Analysis Date: 5/24/2013 09:49 PM			
Client ID:		Run ID: ICP3_130524A			SeqNo: 615254		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500	100	0	107	80-120	0			
Antimony	101.2	3.0	100	0	101	80-120	0			
Arsenic	105.1	5.0	100	0	105	80-120	0			
Barium	107.9	10	100	0	108	80-120	0			
Beryllium	101.6	0.50	100	0	102	80-120	0			
Cadmium	105.7	1.0	100	0	106	80-120	0			
Calcium	ND	500	100	0	101	80-120	0			
Chromium	105.6	2.0	100	0	106	80-120	0			
Cobalt	102.2	5.0	100	0	102	80-120	0			
Copper	101.8	5.0	100	0	102	80-120	0			
Iron	103.2	100	100	0	103	80-120	0			
Lead	106.2	5.0	100	0	106	80-120	0			
Magnesium	ND	100	100	0	95.3	80-120	0			
Manganese	97.9	5.0	100	0	97.9	80-120	0			
Nickel	102.2	5.0	100	0	102	80-120	0			
Potassium	1052	500	100	0	1050	80-120	0			S
Selenium	106.7	3.0	100	0	107	80-120	0			
Silver	107.4	1.0	100	0	107	80-120	0			
Sodium	ND	500	100	0	112	80-120	0			
Thallium	100.3	3.0	100	0	100	80-120	0			
Vanadium	99	5.0	100	0	99	80-120	0			
Zinc	103.2	5.0	100	0	103	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16814** Instrument ID: **ICP3** Method: **SW6010B**

LCSD	Sample ID: icsd-16814-16814			Units: mg/Kg		Analysis Date: 5/24/2013 09:55 PM				
Client ID:	Run ID: ICP3_130524A			SeqNo: 615255		Prep Date: 5/24/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	500	100	0	106	80-120	106.9	0	20	
Antimony	101.9	3.0	100	0	102	80-120	101.2	0.689	20	
Arsenic	104.9	5.0	100	0	105	80-120	105.1	0.19	20	
Barium	108.7	10	100	0	109	80-120	107.9	0.739	20	
Beryllium	101.6	0.50	100	0	102	80-120	101.6	0	20	
Cadmium	106.3	1.0	100	0	106	80-120	105.7	0.566	20	
Calcium	ND	500	100	0	101	80-120	101.1	0	20	
Chromium	104.5	2.0	100	0	104	80-120	105.6	1.05	20	
Cobalt	102.7	5.0	100	0	103	80-120	102.2	0.488	20	
Copper	101.2	5.0	100	0	101	80-120	101.8	0.591	20	
Iron	102.8	100	100	0	103	80-120	103.2	0.388	20	
Lead	106.5	5.0	100	0	106	80-120	106.2	0.282	20	
Magnesium	ND	100	100	0	98.4	80-120	95.33	0	20	
Manganese	98.34	5.0	100	0	98.3	80-120	97.9	0.448	20	
Nickel	102.4	5.0	100	0	102	80-120	102.2	0.196	20	
Potassium	1056	500	100	0	1060	80-120	1052	0.38	20	S
Selenium	107.7	3.0	100	0	108	80-120	106.7	0.933	20	
Silver	107.2	1.0	100	0	107	80-120	107.4	0.186	20	
Sodium	ND	500	100	0	108	80-120	111.9	0	20	
Thallium	100.4	3.0	100	0	100	80-120	100.3	0.0997	20	
Vanadium	98.7	5.0	100	0	98.7	80-120	99	0.303	20	
Zinc	103.6	5.0	100	0	104	80-120	103.2	0.387	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16814 Instrument ID: ICP3 Method: SW6010B

MS		Sample ID: 1305490-17a ms			Units: mg/Kg		Analysis Date: 5/25/2013 02:05 PM			
Client ID: ASTW-S1-0001		Run ID: ICP3_130524B			SeqNo: 615374		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	7264	500	99.62	5854	1420	80-120	0			SO
Antimony	89.69	3.0	99.62	-0.3501	90.4	75-125	0			
Arsenic	126.4	5.0	99.62	23.25	104	75-125	0			
Barium	124.2	10	99.62	25.87	98.7	75-125	0			
Beryllium	104.3	0.50	99.62	0.3388	104	75-125	0			
Cadmium	101.8	1.0	99.62	0.7331	101	75-125	0			
Calcium	8477	500	99.62	10090	-1620	75-125	0			SO
Chromium	109	2.0	99.62	12.02	97.3	75-125	0			
Cobalt	98.33	5.0	99.62	4.91	93.8	75-125	0			
Copper	215.7	5.0	99.62	108.5	108	75-125	0			
Iron	14770	100	99.62	14470	308	75-125	0			SO
Lead	115.2	5.0	99.62	19.43	96.1	75-125	0			
Magnesium	4516	100	99.62	4124	394	75-125	0			SO
Manganese	339.8	5.0	99.62	255.1	85	75-125	0			
Nickel	106.2	5.0	99.62	12.26	94.3	75-125	0			
Potassium	1629	500	99.62	517	112	75-125	0			
Selenium	102.4	3.0	99.62	1.249	102	75-125	0			
Silver	100.6	1.0	99.62	-0.249	101	75-125	0			
Sodium	ND	500	99.62	48.1	101	75-125	0			
Thallium	91.33	3.0	99.62	0.3332	91.3	75-125	0			
Vanadium	115.4	5.0	99.62	11.23	105	75-125	0			
Zinc	200.7	5.0	99.62	89.7	111	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16814 Instrument ID: ICP3 Method: SW6010B

MSD		Sample ID: 1305490-17a msd			Units: mg/Kg		Analysis Date: 5/25/2013 02:11 PM			
Client ID: ASTW-S1-0001		Run ID: ICP3_130524B			SeqNo: 615375		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	7326	500	99.66	5854	1480	75-125	7264	0.846	20	SO
Antimony	90.05	3.0	99.66	-0.3501	90.7	75-125	89.69	0.406	20	
Arsenic	127.1	5.0	99.66	23.25	104	75-125	126.4	0.512	20	
Barium	122.4	10	99.66	25.87	96.8	75-125	124.2	1.5	20	
Beryllium	103.1	0.50	99.66	0.3388	103	75-125	104.3	1.11	20	
Cadmium	101.3	1.0	99.66	0.7331	101	75-125	101.8	0.549	20	
Calcium	12160	500	99.66	10090	2080	75-125	8477	35.7	20	SRO
Chromium	107.9	2.0	99.66	12.02	96.2	75-125	109	0.971	20	
Cobalt	97.06	5.0	99.66	4.91	92.5	75-125	98.33	1.3	20	
Copper	213	5.0	99.66	108.5	105	75-125	215.7	1.26	20	
Iron	14270	100	99.66	14470	-196	75-125	14770	3.46	20	SO
Lead	115.5	5.0	99.66	19.43	96.4	75-125	115.2	0.299	20	
Magnesium	6513	100	99.66	4124	2400	75-125	4516	36.2	20	SRO
Manganese	331.4	5.0	99.66	255.1	76.5	75-125	339.8	2.51	20	
Nickel	105.8	5.0	99.66	12.26	93.9	75-125	106.2	0.336	20	
Potassium	1615	500	99.66	517	110	75-125	1629	0.882	20	
Selenium	102.6	3.0	99.66	1.249	102	75-125	102.4	0.137	20	
Silver	100.8	1.0	99.66	-0.249	101	75-125	100.6	0.139	20	
Sodium	ND	500	99.66	48.1	103	75-125	148.6	0	20	
Thallium	90.67	3.0	99.66	0.3332	90.6	75-125	91.33	0.727	20	
Vanadium	114.9	5.0	99.66	11.23	104	75-125	115.4	0.393	20	
Zinc	182.6	5.0	99.66	89.7	93.2	75-125	200.7	9.47	20	

The following samples were analyzed in this batch:

1305490-04b	1305490-05b	1305490-06b
1305490-07b	1305490-08b	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99836** Instrument ID: **SUB** Method: **SW8081A**

MBLK	Sample ID: mblk-R99836	Units: µg/Kg				Analysis Date: 6/4/2013 04:10 PM				
Client ID:	Run ID: SUB_130604C	SeqNo: 627990			Prep Date: 5/29/2013		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	1.6								
4,4'-DDE	ND	1.6								
4,4'-DDT	ND	1.6								
Aldrin	ND	1.6								
alpha-BHC	ND	1.6								
alpha-Chlordane	ND	1.6								
beta-BHC	ND	1.6								
delta-BHC	ND	1.6								
Dieldrin	ND	1.6								
Endosulfan I	ND	1.6								
Endosulfan II	ND	1.6								
Endosulfan sulfate	ND	1.6								
Endrin	ND	1.6								
Endrin aldehyde	ND	1.6								
Endrin ketone	ND	1.6								
gamma-BHC (Lindane)	ND	1.6								
gamma-Chlordane	ND	1.6								
Heptachlor	ND	1.6								
Heptachlor epoxide	ND	1.6								
Methoxychlor	ND	1.6								
Toxaphene	ND	33								
<i>Surr: Decachlorobiphenyl</i>	91.4	0	100	0	91.4	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	58.8	0	100	0	58.8	39-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99836** Instrument ID: **SUB** Method: **SW8081A**

LCS		Sample ID: Ics-R99836			Units: µg/Kg		Analysis Date: 6/4/2013 05:05 PM			
Client ID:		Run ID: SUB_130604C			SeqNo: 627993		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	12.2	1.6	16.7	0	73.1	60-110	0			
4,4'-DDE	12.3	1.6	16.7	0	73.7	55-110	0			
4,4'-DDT	13.5	1.6	16.7	0	80.8	60-115	0			
Aldrin	12.1	1.6	16.7	0	72.5	50-100	0			
alpha-BHC	13.2	1.6	16.7	0	79	55-105	0			
alpha-Chlordane	11.1	1.6	16.7	0	66.5	50-100	0			
beta-BHC	12.2	1.6	16.7	0	73.1	50-100	0			
delta-BHC	12	1.6	16.7	0	71.9	50-110	0			
Dieldrin	12.4	1.6	16.7	0	74.3	60-110	0			
Endosulfan I	9.67	1.6	16.7	0	57.9	40-100	0			
Endosulfan II	10.5	1.6	16.7	0	62.9	40-100	0			
Endosulfan sulfate	14.9	1.6	16.7	0	89.2	45-115	0			
Endrin	11.6	1.6	16.7	0	69.5	55-100	0			
Endrin aldehyde	11.9	1.6	16.7	0	71.3	45-110	0			
Endrin ketone	13.4	1.6	16.7	0	80.2	55-115	0			
gamma-BHC (Lindane)	13.1	1.6	16.7	0	78.4	50-110	0			
gamma-Chlordane	11.4	1.6	16.7	0	68.3	50-100	0			
Heptachlor	13.5	1.6	16.7	0	80.8	50-105	0			
Heptachlor epoxide	13.5	1.6	16.7	0	80.8	55-105	0			
Methoxychlor	14.8	1.6	16.7	0	88.6	60-125	0			
Toxaphene	65.6	33	66.7	0	98.4	25-138	0			
<i>Surr: Decachlorobiphenyl</i>	89.4	0	100	0	89.4	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	62.2	0	100	0	62.2	39-130	0			

The following samples were analyzed in this batch:

1305490-05C	1305490-06C	1305490-07C
1305490-08C		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99836a** Instrument ID: **SUB** Method: **SW8081A**

MBLK	Sample ID: mblk-R99836a	Run ID: SUB_130604C				Units: µg/Kg	Analysis Date: 6/11/2013 08:45 AM			
Client ID:		SeqNo: 628001		Prep Date: 5/29/2013	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	1.6								
4,4'-DDE	ND	1.6								
4,4'-DDT	ND	1.6								
Aldrin	ND	1.6								
alpha-BHC	ND	1.6								
alpha-Chlordane	ND	1.6								
beta-BHC	ND	1.6								
delta-BHC	ND	1.6								
Dieldrin	ND	1.6								
Endosulfan I	ND	1.6								
Endosulfan II	ND	1.6								
Endosulfan sulfate	ND	1.6								
Endrin	ND	1.6								
Endrin aldehyde	ND	1.6								
Endrin ketone	ND	1.6								
gamma-BHC (Lindane)	ND	1.6								
gamma-Chlordane	ND	1.6								
Heptachlor	ND	1.6								
Heptachlor epoxide	ND	1.6								
Methoxychlor	ND	1.6								
Toxaphene	ND	33								
<i>Surr: Decachlorobiphenyl</i>	69.2	0	100	0	69.2		0			
<i>Surr: Tetrachloro-m-xylene</i>	50.8	0	100	0	50.8		0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99836a** Instrument ID: **SUB** Method: **SW8081A**

LCS		Sample ID: Ics-R99836a			Units: µg/Kg		Analysis Date: 6/11/2013 09:13 AM			
Client ID:		Run ID: SUB_130604C			SeqNo: 628002		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	12.6	1.6	16.7	0	75.4	60-110	0			
4,4'-DDE	12.9	1.6	16.7	0	77.2	55-110	0			
4,4'-DDT	13.7	1.6	16.7	0	82	60-115	0			
Aldrin	12.7	1.6	16.7	0	76	50-100	0			
alpha-BHC	11.9	1.6	16.7	0	71.3	55-105	0			
alpha-Chlordane	13.6	1.6	16.7	0	81.4	50-100	0			
beta-BHC	12.8	1.6	16.7	0	76.6	50-100	0			
delta-BHC	12.3	1.6	16.7	0	73.7	50-110	0			
Dieldrin	12.8	1.6	16.7	0	76.6	60-110	0			
Endosulfan I	13.6	1.6	16.7	0	81.4	40-100	0			
Endosulfan II	12.6	1.6	16.7	0	75.4	40-100	0			
Endosulfan sulfate	14	1.6	16.7	0	83.8	45-115	0			
Endrin	12.8	1.6	16.7	0	76.6	55-100	0			
Endrin aldehyde	12	1.6	16.7	0	71.9	45-110	0			
Endrin ketone	12.69	1.6	16.7	0	76	55-115	0			
gamma-BHC (Lindane)	11.8	1.6	16.7	0	70.7	50-110	0			
gamma-Chlordane	13.7	1.6	16.7	0	82	50-100	0			
Heptachlor	14	1.6	16.7	0	83.8	50-105	0			
Heptachlor epoxide	13.9	1.6	16.7	0	83.2	55-105	0			
Methoxychlor	15.2	1.6	16.7	0	91	60-125	0			

LCS		Sample ID: LCS-R99836a			Units: µg/Kg		Analysis Date: 6/11/2013 09:41 AM			
Client ID:		Run ID: SUB_130604C			SeqNo: 628003		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Toxaphene	65.6	33	66.7	0	98.4	25-138	0			
<i>Surr: Decachlorobiphenyl</i>	101	0	100	0	101	33-143	0			
<i>Surr: Tetrachloro-m-xylene</i>	57.8	0	100	0	57.8	39-130	0			

The following samples were analyzed in this batch: 1305490-04C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99836b** Instrument ID: **SUB** Method: **SW8081A**

MBLK	Sample ID: mblk-R99836b	Units: $\mu\text{g/L}$				Analysis Date: 6/3/2013 06:30 PM				
Client ID:	Run ID: SUB_130604C	SeqNo: 628065			Prep Date: 5/28/2013	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	0.050								
4,4'-DDE	ND	0.050								
4,4'-DDT	ND	0.050								
Aldrin	ND	0.050								
alpha Chlordane	ND	0.050								
alpha-BHC	ND	0.050								
beta-BHC	ND	0.050								
delta-BHC	ND	0.050								
Dieldrin	ND	0.050								
Endosulfan I	ND	0.050								
Endosulfan II	ND	0.050								
Endosulfan sulfate	ND	0.050								
Endrin	ND	0.050								
Endrin aldehyde	ND	0.050								
Endrin ketone	ND	0.050								
gamma Chlordane	ND	0.050								
gamma-BHC (Lindane)	ND	0.050								
Heptachlor	ND	0.050								
Heptachlor epoxide	ND	0.050								
Methoxychlor	ND	0.050								
Toxaphene	ND	1.0								
<i>Surr: Decachlorobiphenyl</i>	61.2	0	100	0	61.2	25-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	63	0	100	0	63	20-180	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99836b** Instrument ID: **SUB** Method: **SW8081A**

LCS		Sample ID: Ics-R99836b			Units: µg/L		Analysis Date: 6/3/2013 06:58 PM			
Client ID:		Run ID: SUB_130604C			SeqNo: 628066		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.353	0.050	0.5	0	70.6	40-125	0			
4,4'-DDE	0.336	0.050	0.5	0	67.2	40-120	0			
4,4'-DDT	0.377	0.050	0.5	0	75.4	40-125	0			
Aldrin	0.321	0.050	0.5	0	64.2	30-110	0			
alpha Chlordane	0.325	0.050	0.5	0	65	30-120	0			
alpha-BHC	0.375	0.050	0.5	0	75	40-120	0			
beta-BHC	0.36	0.050	0.5	0	72	30-115	0			
delta-BHC	0.352	0.050	0.5	0	70.4	35-130	0			
Dieldrin	0.368	0.050	0.5	0	73.6	40-125	0			
Endosulfan I	0.284	0.050	0.5	0	56.8	30-110	0			
Endosulfan II	0.309	0.050	0.5	0	61.8	30-110	0			
Endosulfan sulfate	0.47	0.050	0.5	0	94	35-125	0			
Endrin	0.345	0.050	0.5	0	69	35-120	0			
Endrin aldehyde	0.35	0.050	0.5	0	70	30-120	0			
Endrin ketone	0.409	0.050	0.5	0	81.8	40-125	0			
gamma Chlordane	0.324	0.050	0.5	0	64.8	30-120	0			
gamma-BHC (Lindane)	0.372	0.050	0.5	0	74.4	40-120	0			
Heptachlor	0.358	0.050	0.5	0	71.6	35-115	0			
Heptachlor epoxide	0.389	0.050	0.5	0	77.8	35-115	0			
Methoxychlor	0.442	0.050	0.5	0	88.4	30-150	0			

LCS		Sample ID: Ics-R99836b			Units: µg/L		Analysis Date: 6/3/2013 07:54 PM			
Client ID:		Run ID: SUB_130604C			SeqNo: 628067		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Toxaphene	1.67	1.0	2	0	83.5	41-126	0			
<i>Surr: Decachlorobiphenyl</i>	45	0	100	0	45	25-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	48.7	0	100	0	48.7	20-180	0			

The following samples were analyzed in this batch:

1305490-01E	1305490-02E	1305490-03E
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99840** Instrument ID: **SUB** Method: **SW8151**

MBLK		Sample ID: mblk-R99840			Units: µg/L		Analysis Date: 5/30/2013 02:30 PM			
Client ID:		Run ID: SUB_130530E			SeqNo: 628103		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	ND	0.20								
2,4,5-TP (Silvex)	ND	0.20								
2,4-D	ND	2.0								
2,4-DB	ND	2.0								
Dalapon	ND	5.0								
Dicamba	ND	0.20								
Dichlorprop	ND	2.0								
Dinoseb	ND	1.0								
MCPA	ND	250								
MCPP	ND	250								
Pentachlorophenol	ND	0.20								
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	89.9	0	100	0	89.9	20-144	0			

LCS		Sample ID: lcs-R99840			Units: µg/L		Analysis Date: 5/30/2013 04:09 PM			
Client ID:		Run ID: SUB_130530E			SeqNo: 628104		Prep Date: 5/28/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	0.287	0.20	0.5	0	57.4	30-110	0			
2,4,5-TP (Silvex)	0.286	0.20	0.5	0	57.2	30-110	0			
2,4-D	2.65	2.0	5	0	53	30-100	0			
2,4-DB	2.11	2.0	5	0	42.2	30-110	0			
Dalapon	ND	5.0	12.5	0	26	10-100	0			
Dicamba	0.396	0.20	0.5	0	79.2	30-135	0			
Dichlorprop	3.52	2.0	5	0	70.4	25-115	0			
Dinoseb	1.49	1.0	2.5	0	59.6	30-105	0			
MCPA	278	250	500	0	55.6	25-100	0			
MCPP	269	250	500	0	53.8	30-120	0			
Pentachlorophenol	0.258	0.20	0.5	0	51.6	30-105	0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	90.9	0	100	0	90.9		0			

The following samples were analyzed in this batch: 1305490-01F 1305490-02F 1305490-03F

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99840a** Instrument ID: **SUB** Method: **SW8151**

MBLK		Sample ID: mblk-R99840a			Units: µg/Kg		Analysis Date: 6/3/2013 05:22 PM			
Client ID:		Run ID: SUB_130530E			SeqNo: 628152		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	ND	4.0								
2,4,5-TP (Silvex)	ND	3.0								
2,4-D	ND	40								
2,4-DB	ND	40								
Dalapon	ND	100								
Dicamba	ND	4.0								
Dichlorprop	ND	40								
Dinoseb	ND	20								
MCPA	ND	4,000								
MCPP	ND	4,000								
Pentachlorophenol	ND	4.0								
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	91.8	0	100	0	91.8	25-110	0			

LCS		Sample ID: lcs-R99840a			Units: µg/Kg		Analysis Date: 6/3/2013 05:47 PM			
Client ID:		Run ID: SUB_130530E			SeqNo: 628153		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	7.45	4.0	10	0	74.5	30-125	0			
2,4,5-TP (Silvex)	6.88	3.0	10	0	68.8	25-120	0			
2,4-D	56.8	40	100	0	56.8	15-120	0			
2,4-DB	715	40	100	0	715	20-125	0			S
Dalapon	135	100	250	0	54	10-105	0			
Dicamba	9.67	4.0	10	0	96.7	45-150	0			
Dichlorprop	74.8	40	100	0	74.8	20-130	0			
Dinoseb	33.7	20	50	0	67.4	25-125	0			
MCPA	5960	4,000	10000	0	59.6	10-120	0			
MCPP	5980	4,000	10000	0	59.8	10-130	0			
Pentachlorophenol	5.52	4.0	10	0	55.2	30-110	0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	96.4	0	100	0	96.4	25-110	0			

The following samples were analyzed in this batch:

1305490-04C	1305490-05C	1305490-06C
1305490-07C	1305490-08C	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16805** Instrument ID: **SVMS3** Method: **SW8270C**

MBLK	Sample ID: mblk-16805-16805	Units: µg/L		Analysis Date: 5/28/2013 10:10 PM						
Client ID:	Run ID: SVMS3_130528A	SeqNo: 617306		Prep Date: 5/23/2013 DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.10								
Acenaphthene	ND	0.10								
Acenaphthylene	ND	0.10								
Anthracene	ND	0.10								
Benzo(a)anthracene	ND	0.10								
Benzo(a)pyrene	ND	0.10								
Benzo(b)fluoranthene	ND	0.11								
Benzo(g,h,i)perylene	ND	0.10								
Benzo(k)fluoranthene	ND	0.16								
Carbazole	ND	10								
Chrysene	ND	0.10								
Dibenzo(a,h)anthracene	ND	0.10								
Dibenzofuran	ND	10								
Fluoranthene	ND	0.10								
Fluorene	ND	0.10								
Indeno(1,2,3-cd)pyrene	ND	0.10								
Naphthalene	ND	0.10								
Phenanthrene	ND	0.10								
Pyrene	ND	0.10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16805** Instrument ID: **SVMS3** Method: **SW8270C**

MBLK	Sample ID: mblk-16805-16805	Units: µg/L		Analysis Date: 5/28/2013 11:15 PM						
Client ID:	Run ID: SVMS2_130528A	SeqNo: 617374		Prep Date: 5/23/2013 DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	10								
1,2,4-Trichlorobenzene	ND	10								
1,2-Dichlorobenzene	ND	10								
1,3-Dichlorobenzene	ND	10								
1,3-Dinitrobenzene	ND	10								
1,4-Dichlorobenzene	ND	10								
1-Naphthylamine	ND	10								
2,3,4,6-Tetrachlorophenol	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
2,4-Dichlorophenol	ND	10								
2,4-Dimethylphenol	ND	10								
2,4-Dinitrophenol	ND	10								
2,4-Dinitrotoluene	ND	10								
2,6-Dichlorophenol	ND	10								
2,6-Dinitrotoluene	ND	10								
2-Acetylaminofluorene	ND	10								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	10								
2-Methylphenol	ND	10								
2-Naphthylamine	ND	20								
2-Nitroaniline	ND	10								
2-Nitrophenol	ND	10								
2-Picoline	ND	20								
3&4-Methylphenol	ND	10								
3,3'-Dichlorobenzidine	ND	10								
3-Methylcholanthrene	ND	20								
3-Nitroaniline	ND	20								
4,6-Dinitro-2-methylphenol	ND	20								
4-Aminobiphenyl	ND	10								
4-Bromophenyl phenyl ether	ND	20								
4-Chloro-3-methylphenol	ND	20								
4-Chloroaniline	ND	10								
4-Chlorophenyl phenyl ether	ND	20								
4-Nitroaniline	ND	20								
4-Nitrophenol	ND	10								
4-Nitroquinoline 1-oxide	ND	10								
5-Nitro-o-toluidine	ND	10								
7,12-Dimethylbenz(a)anthracene	ND	10								
Acetophenone	ND	10								
Aniline	ND	10								
Azobenzene	ND	10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805	Instrument ID: SVMS3	Method: SW8270C						
Benzidine	ND	10						
Benzyl alcohol	ND	10						
Bis(2-chloroethoxy)methane	ND	10						
Bis(2-chloroethyl)ether	ND	10						
Bis(2-chloroisopropyl)ether	ND	10						
Bis(2-ethylhexyl)phthalate	ND	10						
Butyl benzyl phthalate	ND	10						
Diethyl phthalate	ND	10						
Dimethyl phthalate	ND	10						
Di-n-butyl phthalate	ND	10						
Di-n-octyl phthalate	ND	10						
Dinoseb	ND	20						
Diphenylamine	ND	10						
Ethyl methanesulfonate	ND	10						
Hexachlorobenzene	ND	10						
Hexachlorobutadiene	ND	10						
Hexachlorocyclopentadiene	ND	10						
Hexachloroethane	ND	10						
Isophorone	ND	10						
Isosafrole	ND	10						
Methapyrilene	ND	10						
Methyl methanesulfonate	ND	10						
Nitrobenzene	ND	10						
N-Nitrosodiethylamine	ND	10						
N-Nitrosodimethylamine	ND	10						
N-Nitroso-di-n-butylamine	ND	10						
N-Nitrosodi-n-propylamine	ND	10						
N-Nitrosomethylethylamine	ND	10						
N-Nitrosomorpholine	ND	10						
N-Nitrosopiperidine	ND	10						
N-Nitrosopyrrolidine	ND	10						
o-Toluidine	ND	10						
p-Dimethylaminoazobenzene	ND	10						
Pentachlorobenzene	ND	10						
Pentachloroethane	ND	10						
Pentachloronitrobenzene	ND	20						
Pentachlorophenol	ND	20						
Phenacetin	ND	20						
Phenol	ND	10						
Pyridine	ND	10						
Safrole	ND	10						
<i>Surr: 2,4,6-Tribromophenol</i>	73.57	0	100	0	73.6	35-120	0	
<i>Surr: 2-Fluorobiphenyl</i>	30.74	0	50	0	61.5	38-105	0	
<i>Surr: 2-Fluorophenol</i>	46.59	0	100	0	46.6	12-89	0	
<i>Surr: 4-Terphenyl-d14</i>	40.18	0	50	0	80.4	42-125	0	
<i>Surr: Nitrobenzene-d5</i>	34	0	50	0	68	28-120	0	
<i>Surr: Phenol-d5</i>	43.93	0	100	0	43.9	10-62	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805 Instrument ID: SVMS3 Method: SW8270C

LCS		Sample ID: Ics-16805-16805			Units: µg/L		Analysis Date: 5/28/2013 11:51 PM			
Client ID:		Run ID: SVMS2_130528A			SeqNo: 617375		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	33.02	10	50	0	66	49.8-102	0			
1,4-Dichlorobenzene	37.78	10	50	0	75.6	44-92.8	0			
2,4-Dinitrotoluene	48.45	10	50	0	96.9	61.3-108	0			
2-Chlorophenol	43.64	10	50	0	87.3	33.3-89.9	0			
4-Chloro-3-methylphenol	45.03	20	50	0	90.1	39.3-96.6	0			
4-Nitrophenol	38.92	10	50	0	77.8	17.3-80.3	0			
Acenaphthene	39.27	0.10	50	0	78.5	40.1-123	0			
Acenaphthylene	39.16	0.10	50	0	78.3	59.3-126	0			
Anthracene	41.25	0.10	50	0	82.5	62.1-110	0			
Benzo(a)anthracene	41.54	0.10	50	0	83.1	62.3-118	0			
Benzo(a)pyrene	45.53	0.10	50	0	91.1	69.6-111	0			
Benzo(b)fluoranthene	41.92	0.11	50	0	83.8	60.1-94.5	0			
Benzo(g,h,i)perylene	40.81	0.10	50	0	81.6	66.8-138	0			
Benzo(k)fluoranthene	45.76	0.16	50	0	91.5	68.8-136	0			
Carbazole	54.36	10	50	0	109	70.8-115	0			
Chrysene	41.61	0.10	50	0	83.2	63.1-116	0			
Dibenzo(a,h)anthracene	44.21	0.10	50	0	88.4	47.1-168	0			
Fluoranthene	44	0.10	50	0	88	58.1-117	0			
Fluorene	40.68	0.10	50	0	81.4	59.5-120	0			
Indeno(1,2,3-cd)pyrene	45.14	0.10	50	0	90.3	56.3-141	0			
Naphthalene	34.42	0.10	50	0	68.8	46.6-104	0			
N-Nitrosodi-n-propylamine	58.06	10	50	0	116	54.8-121	0			
Pentachlorophenol	51.41	20	50	0	103	34.1-130	0			
Phenanthrene	42.02	0.10	50	0	84	63-118	0			
Phenol	28.08	10	50	0	56.2	17.5-68	0			
Pyrene	41.51	0.10	50	0	83	42-125	0			
Surr: 2,4,6-Tribromophenol	71.21	0	100	0	71.2	35-120	0			
Surr: 2-Fluorobiphenyl	33.67	0	50	0	67.3	38-105	0			
Surr: 2-Fluorophenol	73.28	0	100	0	73.3	12-89	0			
Surr: 4-Terphenyl-d14	39.17	0	50	0	78.3	42-125	0			
Surr: Nitrobenzene-d5	48.72	0	50	0	97.4	28-120	0			
Surr: Phenol-d5	51.65	0	100	0	51.6	10-62	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805 Instrument ID: SVMS3 Method: SW8270C

MS		Sample ID: 1305506-01c ms			Units: µg/L		Analysis Date: 5/29/2013 12:27 PM			
Client ID:		Run ID: SVMS2_130528A			SeqNo: 617385		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	33.86	10	50	0	67.7		0			
2,4-Dinitrotoluene	48.79	10	50	0	97.6		0			
2-Chlorophenol	54.91	10	50	0	110		0			
4-Chloro-3-methylphenol	52.94	20	50	0	106		0			
4-Nitrophenol	23.45	10	50	0	46.9		0			
Acenaphthene	41.59	0.10	50	0	83.2		0			
Acenaphthylene	41.52	0.10	50	0	83		0			
Anthracene	41.1	0.10	50	0	82.2		0			
Benzo(a)anthracene	41.74	0.10	50	0	83.5		0			
Benzo(a)pyrene	45.79	0.10	50	0	91.6		0			
Benzo(b)fluoranthene	41.42	0.11	50	0	82.8		0			
Benzo(g,h,i)perylene	41.68	0.10	50	0	83.4		0			
Benzo(k)fluoranthene	45.93	0.16	50	0	91.9		0			
Carbazole	52.43	10	50	0	105		0			
Chrysene	41.53	0.10	50	0	83.1		0			
Dibenzo(a,h)anthracene	43.96	0.10	50	0	87.9		0			
Dibenzofuran	46.46	10	50	0	92.9		0			
Fluoranthene	42.91	0.10	50	0	85.8		0			
Fluorene	41.98	0.10	50	0	84		0			
Indeno(1,2,3-cd)pyrene	44.13	0.10	50	0	88.3		0			
Naphthalene	40.98	0.10	50	0	82		0			
N-Nitrosodi-n-propylamine	55.58	10	50	0	111		0			
Pentachlorophenol	52.03	20	50	0	104		0			
Phenol	28.99	10	50	0	58		0			
Pyrene	40.87	0.10	50	0	81.7		0			
Surr: 2,4,6-Tribromophenol	73.67	0	100	0	73.7	35-120	0			
Surr: 2-Fluorobiphenyl	37.14	0	50	0	74.3	38-105	0			
Surr: 2-Fluorophenol	74.17	0	100	0	74.2	12-89	0			
Surr: 4-Terphenyl-d14	39.2	0	50	0	78.4	42-125	0			
Surr: Nitrobenzene-d5	58.26	0	50	0	117	28-120	0			
Surr: Phenol-d5	47.67	0	100	0	47.7	10-62	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805 Instrument ID: SVMS3 Method: SW8270C

MSD		Sample ID: 1305506-01c msd			Units: µg/L		Analysis Date: 5/29/2013 01:03 AM			
Client ID:		Run ID: SVMS2_130528A			SeqNo: 617376		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	38.57	10	50	0	77.1		41.34	6.93		
1,4-Dichlorobenzene	46.29	10	50	0	92.6		33.86	31		
2,4-Dinitrotoluene	47.19	10	50	0	94.4		48.79	3.33		
2-Chlorophenol	66.34	10	50	0	133		54.91	18.9		
4-Chloro-3-methylphenol	50.78	20	50	0	102		52.94	4.17		
4-Nitrophenol	22.65	10	50	0	45.3		23.45	3.47		
Acenaphthene	40.65	0.10	50	0	81.3		41.59	2.29		
Acenaphthylene	40.01	0.10	50	0	80		41.52	3.7		
Anthracene	39.73	0.10	50	0	79.5		41.1	3.39		
Benzo(a)anthracene	51.63	0.10	50	0	103		41.74	21.2		
Benzo(a)pyrene	53.55	0.10	50	0	107		45.79	15.6		
Benzo(b)fluoranthene	43.41	0.11	50	0	86.8		41.42	4.69		
Benzo(g,h,i)perylene	41.13	0.10	50	0	82.3		41.68	1.33		
Benzo(k)fluoranthene	50.78	0.16	50	0	102		45.93	10		
Carbazole	46.99	10	50	0	94		52.43	10.9		
Chrysene	52.36	0.10	50	0	105		41.53	23.1		
Dibenzo(a,h)anthracene	47.18	0.10	50	0	94.4		43.96	7.07		
Dibenzofuran	44.84	10	50	0	89.7		46.46	3.55		
Fluoranthene	40.28	0.10	50	0	80.6		42.91	6.32		
Fluorene	40.66	0.10	50	0	81.3		41.98	3.19		
Indeno(1,2,3-cd)pyrene	43.13	0.10	50	0	86.3		44.13	2.29		
Naphthalene	38.31	0.10	50	0	76.6		40.98	6.73		
N-Nitrosodi-n-propylamine	50.39	10	50	0	101		55.58	9.8		
Pentachlorophenol	49.51	20	50	0	99		52.03	4.96		
Phenol	27.35	10	50	0	54.7		28.99	5.82		
Pyrene	35.64	0.10	50	0	71.3		40.87	13.7		
Surr: 2,4,6-Tribromophenol	68.78	0	100	0	68.8	35-120	73.67	6.87		
Surr: 2-Fluorobiphenyl	35.94	0	50	0	71.9	38-105	37.14	3.28		
Surr: 2-Fluorophenol	63.44	0	100	0	63.4	12-89	74.17	15.6		
Surr: 4-Terphenyl-d14	36.65	0	50	0	73.3	42-125	39.2	6.72		
Surr: Nitrobenzene-d5	50.55	0	50	0	101	28-120	58.26	14.2		
Surr: Phenol-d5	55.24	0	100	0	55.2	10-62	47.67	14.7		

The following samples were analyzed in this batch:

1305490-01c	1305490-02c	1305490-03c
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID: SVMS2 Method: SW8270C

MBLK		Sample ID: MBLK-16817-16817			Units: µg/Kg		Analysis Date: 5/24/2013 07:10 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615805		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	330								
1,2,4-Trichlorobenzene	ND	330								
1,2-Dichlorobenzene	ND	330								
1,3-Dichlorobenzene	ND	330								
1,3-Dinitrobenzene	ND	330								
1,4-Dichlorobenzene	ND	330								
1-Methylnaphthalene	ND	330								
1-Naphthylamine	ND	330								
2,3,4,6-Tetrachlorophenol	ND	330								
2,4,5-Trichlorophenol	ND	330								
2,4,6-Trichlorophenol	ND	330								
2,4-Dichlorophenol	ND	330								
2,4-Dimethylphenol	ND	330								
2,4-Dinitrophenol	ND	1,600								
2,4-Dinitrotoluene	ND	330								
2,6-Dichlorophenol	ND	330								
2,6-Dinitrotoluene	ND	330								
2-Acetylaminofluorene	ND	330								
2-Chloronaphthalene	ND	330								
2-Chlorophenol	ND	330								
2-Methylnaphthalene	ND	330								
2-Methylphenol	ND	330								
2-Naphthylamine	ND	330								
2-Nitroaniline	ND	1,600								
2-Nitrophenol	ND	330								
2-Picoline	ND	330								
3&4-Methylphenol	ND	330								
3,3'-Dichlorobenzidine	ND	660								
3-Methylcholanthrene	ND	330								
3-Nitroaniline	ND	1,600								
4,6-Dinitro-2-methylphenol	ND	1,600								
4-Aminobiphenyl	ND	660								
4-Bromophenyl phenyl ether	ND	330								
4-Chloro-3-methylphenol	ND	660								
4-Chloroaniline	ND	660								
4-Chlorophenyl phenyl ether	ND	330								
4-Nitroaniline	ND	660								
4-Nitrophenol	ND	1,600								
4-Nitroquinoline 1-oxide	ND	330								
5-Nitro-o-toluidine	ND	330								
7,12-Dimethylbenz(a)anthracene	ND	330								
Acenaphthene	ND	330								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305490
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817	Instrument ID: SVMS2	Method: SW8270C
Acenaphthylene	ND	330
Acetophenone	ND	330
Aniline	ND	330
Anthracene	ND	330
Azobenzene	ND	330
Benzidine	ND	330
Benzo(a)anthracene	ND	330
Benzo(a)pyrene	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(g,h,i)perylene	ND	330
Benzo(k)fluoranthene	ND	330
Benzyl alcohol	ND	660
Bis(2-chloroethoxy)methane	ND	330
Bis(2-chloroethyl)ether	ND	330
Bis(2-chloroisopropyl)ether	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Butyl benzyl phthalate	ND	330
Carbazole	ND	330
Chrysene	ND	330
Dibenzo(a,h)anthracene	ND	330
Dibenzofuran	ND	330
Diethyl phthalate	ND	330
Dimethyl phthalate	ND	330
Di-n-butyl phthalate	ND	330
Di-n-octyl phthalate	ND	330
Dinoseb	ND	330
Diphenylamine	ND	330
Ethyl methanesulfonate	ND	330
Fluoranthene	ND	330
Fluorene	ND	330
Hexachlorobenzene	ND	330
Hexachlorobutadiene	ND	330
Hexachlorocyclopentadiene	ND	330
Hexachloroethane	ND	330
Indeno(1,2,3-cd)pyrene	ND	150
Isophorone	ND	330
Isosafrole	ND	330
Methapyrilene	ND	330
Methyl methanesulfonate	ND	330
Naphthalene	ND	330
Nitrobenzene	ND	330
N-Nitrosodiethylamine	ND	330
N-Nitrosodimethylamine	ND	330
N-Nitroso-di-n-butylamine	ND	330
N-Nitrosodi-n-propylamine	ND	330
N-Nitrosomethylethylamine	ND	330
N-Nitrosomorpholine	ND	330
N-Nitrosopiperidine	ND	330

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817	Instrument ID: SVMS2	Method: SW8270C					
N-Nitrosopyrrolidine	ND	330					
o-Toluidine	ND	330					
p-Dimethylaminoazobenzene	ND	330					
Pentachlorobenzene	ND	330					
Pentachloroethane	ND	330					
Pentachloronitrobenzene	ND	660					
Pentachlorophenol	ND	1,600					
Phenacetin	ND	660					
Phenanthrene	ND	330					
Phenol	ND	330					
Pyrene	ND	330					
Pyridine	ND	330					
Safrole	ND	330					
<i>Surr: 2,4,6-Tribromophenol</i>	2682	0	3330	0	80.6	18-115	0
<i>Surr: 2-Fluorobiphenyl</i>	1329	0	1670	0	79.6	30-116	0
<i>Surr: 2-Fluorophenol</i>	1905	0	3330	0	57.2	24-105	0
<i>Surr: 4-Terphenyl-d14</i>	1212	0	1670	0	72.6	40-127	0
<i>Surr: Nitrobenzene-d5</i>	1542	0	1670	0	92.3	32-106	0
<i>Surr: Phenol-d5</i>	2333	0	3330	0	70.1	39-123	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID: SVMS2 Method: SW8270C

LCS		Sample ID: LCS-16817-16817			Units: µg/Kg		Analysis Date: 5/24/2013 07:45 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615806		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1214	330	1670	0	72.7	48.1-106	0			
1,4-Dichlorobenzene	1167	330	1670	0	69.9	55.5-89.4	0			
2,4-Dinitrotoluene	1486	330	1670	0	89	58.8-123	0			
2-Chlorophenol	1140	330	1670	0	68.3	34.7-116	0			
4-Chloro-3-methylphenol	1449	660	1670	0	86.8	32.1-109	0			
4-Nitrophenol	ND	1,600	1670	0	74.9	36.2-146	0			
Acenaphthene	1263	330	1670	0	75.6	67.8-104	0			
Acenaphthylene	1222	330	1670	0	73.2	65.6-103	0			
Anthracene	1317	330	1670	0	78.8	71.1-107	0			
Benzo(a)anthracene	1365	330	1670	0	81.7	60.4-118	0			
Benzo(a)pyrene	1536	330	1670	0	92	73.7-110	0			
Benzo(b)fluoranthene	1475	330	1670	0	88.3	59.9-94.8	0			
Benzo(g,h,i)perylene	1355	330	1670	0	81.2	40-129	0			
Benzo(k)fluoranthene	1412	330	1670	0	84.5	75.7-130	0			
Carbazole	1699	330	1670	0	102	69.6-107	0			
Chrysene	1429	330	1670	0	85.6	62.3-115	0			
Dibenzo(a,h)anthracene	1282	330	1670	0	76.8	59.2-121	0			
Fluoranthene	1436	330	1670	0	86	63-120	0			
Fluorene	1265	330	1670	0	75.7	69-106	0			
Indeno(1,2,3-cd)pyrene	1284	150	1670	0	76.9	59-110	0			
Naphthalene	1205	330	1670	0	72.2	49.1-103	0			
N-Nitrosodi-n-propylamine	1352	330	1670	0	80.9	25.3-127	0			
Pentachlorophenol	1621	1,600	1670	0	97.1	22.1-105	0			
Phenanthrene	1342	330	1670	0	80.3	70-112	0			
Phenol	1147	330	1670	0	68.7	36.9-97.8	0			
Pyrene	1344	330	1670	0	80.5	55-117	0			
Surr: 2,4,6-Tribromophenol	2259	0	3330	0	67.8	18-115	0			
Surr: 2-Fluorobiphenyl	1156	0	1670	0	69.2	30-116	0			
Surr: 2-Fluorophenol	1944	0	3330	0	58.4	24-105	0			
Surr: 4-Terphenyl-d14	1130	0	1670	0	67.7	40-127	0			
Surr: Nitrobenzene-d5	1177	0	1670	0	70.5	32-106	0			
Surr: Phenol-d5	2183	0	3330	0	65.6	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID: SVMS2 Method: SW8270C

MS		Sample ID: ms 1305471-02b			Units: µg/Kg			Analysis Date: 5/24/2013 08:19 PM		
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615807			Prep Date: 5/24/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1209	330	1669	0	72.4	50.6-92	0			
1,4-Dichlorobenzene	1132	330	1669	0	67.8	40.1-84.3	0			
2,4-Dinitrotoluene	1406	330	1669	0	84.2	50.3-127	0			
2-Chlorophenol	1107	330	1669	0	66.3	33.3-109	0			
4-Chloro-3-methylphenol	1449	660	1669	0	86.8	35.8-116	0			
4-Nitrophenol	ND	1,600	1669	0	92.5	38.7-135	0			
Acenaphthene	1237	330	1669	0	74.1	54.1-109	0			
Acenaphthylene	1214	330	1669	0	72.7	55.3-118	0			
Anthracene	1280	330	1669	0	76.7	51-106	0			
Benzo(a)anthracene	1287	330	1669	0	77.1	31.6-128	0			
Benzo(a)pyrene	1465	330	1669	0	87.8	66.1-109	0			
Benzo(b)fluoranthene	1431	330	1669	0	85.7	56.8-87.8	0			
Benzo(g,h,i)perylene	1411	330	1669	0	84.5	37.7-113	0			
Benzo(k)fluoranthene	1412	330	1669	0	84.6	57-119	0			
Carbazole	1749	330	1669	0	105	28.5-114	0			
Chrysene	1329	330	1669	0	79.6	46.3-104	0			
Dibenzo(a,h)anthracene	1271	330	1669	0	76.1	48.8-123	0			
Fluoranthene	1354	330	1669	0	81.1	52-120	0			
Fluorene	1261	330	1669	0	75.5	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1252	150	1669	0	75	56.1-118	0			
Naphthalene	1199	330	1669	0	71.8	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1359	330	1669	0	81.4	46.5-116	0			
Pentachlorophenol	1685	1,600	1669	0	101	28.9-156	0			
Phenanthrene	1284	330	1669	0	76.9	52-105	0			
Phenol	1109	330	1669	0	66.4	25.9-90.3	0			
Pyrene	1295	330	1669	0	77.6	51-111	0			
Surr: 2,4,6-Tribromophenol	2319	0	3329	0	69.7	18-115	0			
Surr: 2-Fluorobiphenyl	1191	0	1669	0	71.3	30-116	0			
Surr: 2-Fluorophenol	2114	0	3329	0	63.5	24-105	0			
Surr: 4-Terphenyl-d14	1103	0	1669	0	66.1	40-127	0			
Surr: Nitrobenzene-d5	1232	0	1669	0	73.8	32-106	0			
Surr: Phenol-d5	2272	0	3329	0	68.2	39-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16817 Instrument ID: SVMS2 Method: SW8270C

MSD		Sample ID: msd 1305471-02b			Units: µg/Kg		Analysis Date: 5/24/2013 08:54 PM			
Client ID:		Run ID: SVMS2_130524A			SeqNo: 615808		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1218	330	1670	0	72.9	50.6-92	0			
1,4-Dichlorobenzene	1158	330	1670	0	69.4	40.1-84.3	0			
2,4-Dinitrotoluene	1406	330	1670	0	84.2	50.3-127	0			
2-Chlorophenol	1131	330	1670	0	67.7	33.3-109	0			
4-Chloro-3-methylphenol	1468	660	1670	0	87.9	35.8-116	0			
4-Nitrophenol	ND	1,600	1670	0	74.5	38.7-135	0			
Acenaphthene	1248	330	1670	0	74.7	54.1-109	0			
Acenaphthylene	1227	330	1670	0	73.5	55.3-118	0			
Anthracene	1272	330	1670	0	76.2	51-106	0			
Benzo(a)anthracene	1206	330	1670	0	72.2	31.6-128	0			
Benzo(a)pyrene	1456	330	1670	0	87.2	66.1-109	0			
Benzo(b)fluoranthene	1309	330	1670	0	78.4	56.8-87.8	0			
Benzo(g,h,i)perylene	1466	330	1670	0	87.8	37.7-113	0			
Benzo(k)fluoranthene	1385	330	1670	0	83	57-119	0			
Carbazole	1770	330	1670	0	106	28.5-114	0			
Chrysene	1232	330	1670	0	73.8	46.3-104	0			
Dibenzo(a,h)anthracene	1342	330	1670	0	80.4	48.8-123	0			
Fluoranthene	1328	330	1670	0	79.5	52-120	0			
Fluorene	1249	330	1670	0	74.8	54.8-113	0			
Indeno(1,2,3-cd)pyrene	1348	150	1670	0	80.7	56.1-118	0			
Naphthalene	1212	330	1670	0	72.6	51.1-99.3	0			
N-Nitrosodi-n-propylamine	1377	330	1670	0	82.5	46.5-116	0			
Pentachlorophenol	1607	1,600	1670	0	96.2	28.9-156	0			
Phenanthrene	1287	330	1670	0	77.1	52-105	0			
Phenol	1114	330	1670	0	66.7	25.9-90.3	0			
Pyrene	1244	330	1670	0	74.5	51-111	0			
Surr: 2,4,6-Tribromophenol	2249	0	3330	0	67.5	18-115	0			
Surr: 2-Fluorobiphenyl	1197	0	1670	0	71.7	30-116	0			
Surr: 2-Fluorophenol	2154	0	3330	0	64.7	24-105	0			
Surr: 4-Terphenyl-d14	1077	0	1670	0	64.5	40-127	0			
Surr: Nitrobenzene-d5	1250	0	1670	0	74.9	32-106	0			
Surr: Phenol-d5	2298	0	3330	0	69	39-123	0			

The following samples were analyzed in this batch:

1305490-04B	1305490-05B	1305490-06B
1305490-07B	1305490-08B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99282** Instrument ID: **VMS2** Method: **SW8260**

MBLK	Sample ID: MBLK-R99282	Units: µg/Kg				Analysis Date: 5/24/2013 07:51 AM				
Client ID:	Run ID: VMS2_130524A	SeqNo: 614195			Prep Date:	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305490
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99282	Instrument ID: VMS2	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	5.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	49.21	0	50	0	98.4	62.7-159	0
<i>Surr: Dibromofluoromethane</i>	53.93	0	50	0	108	88.2-133	0
<i>Surr: Toluene-d8</i>	50.02	0	50	0	100	81.5-110	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99282** Instrument ID: **VMS2** Method: **SW8260**

LCS		Sample ID: LCS-R99282			Units: µg/Kg		Analysis Date: 5/24/2013 08:23 AM			
Client ID:		Run ID: VMS2_130524A			SeqNo: 614196		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	63.72	5.0	50	0	127	70-132	0			
1,1-Dichloroethene	62.04	5.0	50	0	124	61.2-140	0			
1,2-Dichloroethane	63.83	5.0	50	0	128	67.3-139	0			
1,3-Dichlorobenzene	58.3	5.0	50	0	117	67.5-126	0			
1,4-Dichlorobenzene	55.11	5.0	50	0	110	69.5-124	0			
Benzene	58.51	5.0	50	0	117	67.2-135	0			
Carbon tetrachloride	64.86	5.0	50	0	130	68.6-138	0			
Chlorobenzene	57.41	5.0	50	0	115	66.4-133	0			
Chloroform	59.09	5.0	50	0	118	68.2-127	0			
cis-1,2-Dichloroethene	59.49	5.0	50	0	119	62.1-135	0			
Ethylbenzene	58.34	5.0	50	0	117	67.8-132	0			
m,p-Xylene	118	5.0	100	0	118	66.4-132	0			
Styrene	57.99	5.0	50	0	116	67.6-134	0			
Tetrachloroethene	59.36	5.0	50	0	119	70.3-144	0			
Toluene	59.7	5.0	50	0	119	67.8-130	0			
Trichloroethene	62.11	5.0	50	0	124	68.5-136	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.9	0	50	0	99.8	62.7-159	0			
<i>Surr: Dibromofluoromethane</i>	49.49	0	50	0	99	88.2-133	0			
<i>Surr: Toluene-d8</i>	50.14	0	50	0	100	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99282** Instrument ID: **VMS2** Method: **SW8260**

MS		Sample ID: 1305354-03A MS			Units: µg/Kg		Analysis Date: 5/24/2013 09:36 AM			
Client ID:		Run ID: VMS2_130524A			SeqNo: 614198		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	37.68	5.0	50	0	75.4	66.9-140	0			
1,1-Dichloroethene	38.11	5.0	50	0	76.2	65.9-143	0			
1,2-Dichloroethane	36.86	5.0	50	0	73.7	73-135	0			
1,3-Dichlorobenzene	42.1	5.0	50	0	84.2	61.2-125	0			
1,4-Dichlorobenzene	41.07	5.0	50	0	82.1	62.3-123	0			
Benzene	41.62	5.0	50	0	83.2	35.8-162	0			
Carbon tetrachloride	37.66	5.0	50	0	75.3	71.4-130	0			
Chlorobenzene	41.36	5.0	50	0	82.7	65.6-137	0			
Chloroform	40.28	5.0	50	0	80.6	69.6-128	0			
cis-1,2-Dichloroethene	39.94	5.0	50	0	79.9	68.8-130	0			
Ethylbenzene	39.81	5.0	50	0	79.6	68.6-124	0			
m,p-Xylene	79.33	5.0	100	0	79.3	64.5-125	0			
Styrene	41.01	5.0	50	0	82	65.9-125	0			
Tetrachloroethene	48.64	5.0	50	0	97.3	71.6-135	0			
Toluene	40.72	5.0	50	0	81.4	67.7-135	0			
Trichloroethene	41.26	5.0	50	0	82.5	70.9-139	0			
<i>Surr: 4-Bromofluorobenzene</i>	52.85	0	50	0	106	62.7-159	0			
<i>Surr: Dibromofluoromethane</i>	48.22	0	50	0	96.4	88.2-133	0			
<i>Surr: Toluene-d8</i>	48.85	0	50	0	97.7	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99282** Instrument ID: **VMS2** Method: **SW8260**

MSD		Sample ID: 1305354-03A MSD			Units: µg/Kg		Analysis Date: 5/24/2013 10:07 AM			
Client ID:		Run ID: VMS2_130524A			SeqNo: 614199		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	47.92	5.0	50	0	95.8	66.9-140	37.68	23.9	20	R
1,1-Dichloroethene	49.13	5.0	50	0	98.3	65.9-143	38.11	25.3	20	R
1,2-Dichloroethane	48.07	5.0	50	0	96.1	73-135	36.86	26.4	20	R
1,3-Dichlorobenzene	54.12	5.0	50	0	108	61.2-125	42.1	25	21	R
1,4-Dichlorobenzene	51.2	5.0	50	0	102	62.3-123	41.07	22	22.5	
Benzene	51.92	5.0	50	0	104	35.8-162	41.62	22	23.6	
Carbon tetrachloride	47.32	5.0	50	0	94.6	71.4-130	37.66	22.7	22.9	
Chlorobenzene	49.42	5.0	50	0	98.8	65.6-137	41.36	17.8	20	
Chloroform	51.94	5.0	50	0	104	69.6-128	40.28	25.3	23.1	R
cis-1,2-Dichloroethene	51.17	5.0	50	0	102	68.8-130	39.94	24.7	23.7	R
Ethylbenzene	49.68	5.0	50	0	99.4	68.6-124	39.81	22.1	24.9	
m,p-Xylene	97.24	5.0	100	0	97.2	64.5-125	79.33	20.3	25.1	
Styrene	49.85	5.0	50	0	99.7	65.9-125	41.01	19.5	22.8	
Tetrachloroethene	61.85	5.0	50	0	124	71.6-135	48.64	23.9	24.7	
Toluene	50.72	5.0	50	0	101	67.7-135	40.72	21.9	20	R
Trichloroethene	51.97	5.0	50	0	104	70.9-139	41.26	23	20	R
<i>Surr: 4-Bromofluorobenzene</i>	51.28	0	50	0	103	62.7-159	52.85	3.02		
<i>Surr: Dibromofluoromethane</i>	50.78	0	50	0	102	88.2-133	48.22	5.17		
<i>Surr: Toluene-d8</i>	49.2	0	50	0	98.4	81.5-110	48.85	0.714		

The following samples were analyzed in this batch:

1305490-04A	1305490-05A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99362** Instrument ID: **VMS1** Method: **SW8260**

MBLK	Sample ID: MBLK-R99362	Units: $\mu\text{g/L}$		Analysis Date: 5/29/2013 08:48 AM						
Client ID:	Run ID: VMS1_130529A	SeqNo: 616653		Prep Date:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305490
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99362	Instrument ID: VMS1	Method: SW8260						
Dibromomethane	ND	5.0						
Dichlorodifluoromethane	ND	5.0						
Ethylbenzene	ND	5.0						
Hexachlorobutadiene	ND	5.0						
Isopropylbenzene	ND	5.0						
m,p-Xylene	ND	5.0						
Methyl tert-butyl ether	ND	5.0						
Methylene chloride	ND	5.0						
Naphthalene	ND	5.0						
n-Butylbenzene	ND	5.0						
n-Propylbenzene	ND	5.0						
o-Xylene	ND	5.0						
p-Isopropyltoluene	ND	5.0						
sec-Butylbenzene	ND	5.0						
Styrene	ND	5.0						
tert-Butylbenzene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,2-Dichloroethene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Trichlorofluoromethane	ND	5.0						
Vinyl chloride	ND	2.0						
Xylenes, Total	ND	5.0						
<i>Surr: 4-Bromofluorobenzene</i>	49.51	0	50	0	99	61-131	0	
<i>Surr: Dibromofluoromethane</i>	51.03	0	50	0	102	87-126	0	
<i>Surr: Toluene-d8</i>	51.14	0	50	0	102	84-111	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99362** Instrument ID: **VMS1** Method: **SW8260**

LCS		Sample ID: LCS-R99362			Units: µg/L		Analysis Date: 5/29/2013 08:18 AM			
Client ID:		Run ID: VMS1_130529A			SeqNo: 616652		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	58.19	5.0	50	0	116	48.4-140	0			
1,1-Dichloroethene	56.99	5.0	50	0	114	45.5-150	0			
1,2-Dichloroethane	56.09	5.0	50	0	112	46.5-141	0			
1,3-Dichlorobenzene	50.72	5.0	50	0	101	42.5-133	0			
1,4-Dichlorobenzene	50.1	5.0	50	0	100	38.9-136	0			
Benzene	54.85	5.0	50	0	110	50.7-134	0			
Carbon tetrachloride	62.79	5.0	50	0	126	45.5-143	0			
Chlorobenzene	52.87	5.0	50	0	106	45-133	0			
Chloroform	55.24	5.0	50	0	110	52.4-136	0			
cis-1,2-Dichloroethene	53.02	5.0	50	0	106	49.7-138	0			
Ethylbenzene	54.18	5.0	50	0	108	37.8-145	0			
m,p-Xylene	113.2	5.0	100	0	113	25.1-163	0			
Styrene	59.66	5.0	50	0	119	26.3-172	0			
Tetrachloroethene	50.99	5.0	50	0	102	37.3-139	0			
Toluene	56.93	5.0	50	0	114	44-135	0			
Trichloroethene	55.14	5.0	50	0	110	46.9-134	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.15	0	50	0	96.3	61-131	0			
<i>Surr: Dibromofluoromethane</i>	50.73	0	50	0	101	87-126	0			
<i>Surr: Toluene-d8</i>	52.3	0	50	0	105	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99362** Instrument ID: **VMS1** Method: **SW8260**

MS		Sample ID: 1305506-01A MS			Units: µg/L		Analysis Date: 5/29/2013 11:18 AM			
Client ID:		Run ID: VMS1_130529A			SeqNo: 616658		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.91	5.0	50	0	97.8	47.4-141	0			
1,1-Dichloroethene	49.09	5.0	50	0	98.2	56.3-140	0			
1,2-Dichloroethane	48.56	5.0	50	0	97.1	50.1-139	0			
1,3-Dichlorobenzene	45.92	5.0	50	0	91.8	53-127	0			
1,4-Dichlorobenzene	44.43	5.0	50	0	88.9	53.4-129	0			
Benzene	47.5	5.0	50	0	95	52.8-136	0			
Carbon tetrachloride	51.26	5.0	50	0	103	48.1-141	0			
Chlorobenzene	45.53	5.0	50	0	91.1	52.4-132	0			
Chloroform	48.85	5.0	50	0	97.7	52.9-136	0			
cis-1,2-Dichloroethene	47.24	5.0	50	0	94.5	63.5-128	0			
Ethylbenzene	47.11	5.0	50	0	94.2	46.5-146	0			
m,p-Xylene	98.54	5.0	100	0	98.5	38.2-167	0			
Styrene	49.82	5.0	50	0	99.6	20.9-184	0			
Tetrachloroethene	44.3	5.0	50	0	88.6	55.2-134	0			
Toluene	50.5	5.0	50	0	101	45.1-138	0			
Trichloroethene	47.32	5.0	50	0	94.6	52.8-133	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.71	0	50	0	99.4	61-131	0			
<i>Surr: Dibromofluoromethane</i>	50.93	0	50	0	102	87-126	0			
<i>Surr: Toluene-d8</i>	52.45	0	50	0	105	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99362** Instrument ID: **VMS1** Method: **SW8260**

MSD		Sample ID: 1305506-01A MSD			Units: µg/L		Analysis Date: 5/29/2013 11:48 AM			
Client ID:		Run ID: VMS1_130529A			SeqNo: 616659		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	59.05	5.0	50	0	118	47.4-141	48.91	18.8	20	
1,1-Dichloroethene	58.16	5.0	50	0	116	56.3-140	49.09	16.9	20	
1,2-Dichloroethane	58.09	5.0	50	0	116	50.1-139	48.56	17.9	20	
1,3-Dichlorobenzene	51.66	5.0	50	0	103	53-127	45.92	11.8	20	
1,4-Dichlorobenzene	50.1	5.0	50	0	100	53.4-129	44.43	12	20	
Benzene	56.32	5.0	50	0	113	52.8-136	47.5	17	20	
Carbon tetrachloride	61.13	5.0	50	0	122	48.1-141	51.26	17.6	20	
Chlorobenzene	53.14	5.0	50	0	106	52.4-132	45.53	15.4	20	
Chloroform	58.48	5.0	50	0	117	52.9-136	48.85	17.9	20	
cis-1,2-Dichloroethene	56.32	5.0	50	0	113	63.5-128	47.24	17.5	20	
Ethylbenzene	53.39	5.0	50	0	107	46.5-146	47.11	12.5	20	
m,p-Xylene	111.8	5.0	100	0	112	38.2-167	98.54	12.6	20	
Styrene	58.74	5.0	50	0	117	20.9-184	49.82	16.4	20	
Tetrachloroethene	49.88	5.0	50	0	99.8	55.2-134	44.3	11.8	20	
Toluene	58.65	5.0	50	0	117	45.1-138	50.5	14.9	20	
Trichloroethene	55.22	5.0	50	0	110	52.8-133	47.32	15.4	20	
<i>Surr: 4-Bromofluorobenzene</i>	50.05	0	50	0	100	61-131	49.71	0.682		
<i>Surr: Dibromofluoromethane</i>	51.63	0	50	0	103	87-126	50.93	1.37		
<i>Surr: Toluene-d8</i>	52.12	0	50	0	104	84-111	52.45	0.631		

The following samples were analyzed in this batch:

1305490-01A	1305490-02A	1305490-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99367** Instrument ID: **VMS2** Method: **SW8260**

MBLK		Sample ID: MBLK-R99367			Units: µg/Kg		Analysis Date: 5/29/2013 10:42 AM			
Client ID:		Run ID: VMS2_130529A			SeqNo: 617059		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305490
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99367	Instrument ID: VMS2	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	5.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	47.81	0	50	0	95.6	62.7-159	0
<i>Surr: Dibromofluoromethane</i>	48.52	0	50	0	97	88.2-133	0
<i>Surr: Toluene-d8</i>	48.78	0	50	0	97.6	81.5-110	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99367** Instrument ID: **VMS2** Method: **SW8260**

LCS		Sample ID: LCS-R99367			Units: µg/Kg		Analysis Date: 5/29/2013 11:13 AM			
Client ID:		Run ID: VMS2_130529A			SeqNo: 617060		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	42.38	5.0	50	0	84.8	70-132	0			
1,1-Dichloroethene	40.21	5.0	50	0	80.4	61.2-140	0			
1,2-Dichloroethane	44.79	5.0	50	0	89.6	67.3-139	0			
1,3-Dichlorobenzene	38.41	5.0	50	0	76.8	67.5-126	0			
1,4-Dichlorobenzene	39	5.0	50	0	78	69.5-124	0			
Benzene	40.46	5.0	50	0	80.9	67.2-135	0			
Carbon tetrachloride	43.5	5.0	50	0	87	68.6-138	0			
Chlorobenzene	39.35	5.0	50	0	78.7	66.4-133	0			
Chloroform	41.62	5.0	50	0	83.2	68.2-127	0			
cis-1,2-Dichloroethene	41.96	5.0	50	0	83.9	62.1-135	0			
Ethylbenzene	40.34	5.0	50	0	80.7	67.8-132	0			
m,p-Xylene	81.01	5.0	100	0	81	66.4-132	0			
Styrene	39.87	5.0	50	0	79.7	67.6-134	0			
Tetrachloroethene	40.35	5.0	50	0	80.7	70.3-144	0			
Toluene	40.2	5.0	50	0	80.4	67.8-130	0			
Trichloroethene	42.12	5.0	50	0	84.2	68.5-136	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.56	0	50	0	97.1	62.7-159	0			
<i>Surr: Dibromofluoromethane</i>	50.86	0	50	0	102	88.2-133	0			
<i>Surr: Toluene-d8</i>	49.56	0	50	0	99.1	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99367** Instrument ID: **VMS2** Method: **SW8260**

MS		Sample ID: 1305557-02A MS			Units: µg/Kg		Analysis Date: 5/29/2013 11:44 AM			
Client ID:		Run ID: VMS2_130529A			SeqNo: 617061		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.06	5.0	50	0	98.1	66.9-140	0			
1,1-Dichloroethene	47.66	5.0	50	0	95.3	65.9-143	0			
1,2-Dichloroethane	53.62	5.0	50	0	107	73-135	0			
1,3-Dichlorobenzene	45.14	5.0	50	0	90.3	61.2-125	0			
1,4-Dichlorobenzene	44.75	5.0	50	0	89.5	62.3-123	0			
Benzene	47.03	5.0	50	0	94.1	35.8-162	0			
Carbon tetrachloride	51.55	5.0	50	0	103	71.4-130	0			
Chlorobenzene	45.51	5.0	50	0	91	65.6-137	0			
Chloroform	48.28	5.0	50	0	96.6	69.6-128	0			
cis-1,2-Dichloroethene	47.87	5.0	50	0	95.7	68.8-130	0			
Ethylbenzene	46.56	5.0	50	0	93.1	68.6-124	0			
m,p-Xylene	92.1	5.0	100	0	92.1	64.5-125	0			
Styrene	47.27	5.0	50	0	94.5	65.9-125	0			
Tetrachloroethene	46.84	5.0	50	0	93.7	71.6-135	0			
Toluene	46.58	5.0	50	0	93.2	67.7-135	0			
Trichloroethene	49.13	5.0	50	0	98.3	70.9-139	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.98	0	50	0	98	62.7-159	0			
<i>Surr: Dibromofluoromethane</i>	51.11	0	50	0	102	88.2-133	0			
<i>Surr: Toluene-d8</i>	50.53	0	50	0	101	81.5-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99367** Instrument ID: **VMS2** Method: **SW8260**

MSD		Sample ID: 1305557-02A MSD			Units: µg/Kg		Analysis Date: 5/29/2013 12:15 PM			
Client ID:		Run ID: VMS2_130529A			SeqNo: 617062		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	41.14	5.0	50	0	82.3	66.9-140	49.06	17.6	20	
1,1-Dichloroethene	42.16	5.0	50	0	84.3	65.9-143	47.66	12.2	20	
1,2-Dichloroethane	42.98	5.0	50	0	86	73-135	53.62	22	20	R
1,3-Dichlorobenzene	38.5	5.0	50	0	77	61.2-125	45.14	15.9	21	
1,4-Dichlorobenzene	37.25	5.0	50	0	74.5	62.3-123	44.75	18.3	22.5	
Benzene	38.5	5.0	50	0	77	35.8-162	47.03	19.9	23.6	
Carbon tetrachloride	42.53	5.0	50	0	85.1	71.4-130	51.55	19.2	22.9	
Chlorobenzene	38.75	5.0	50	0	77.5	65.6-137	45.51	16	20	
Chloroform	41.91	5.0	50	0	83.8	69.6-128	48.28	14.1	23.1	
cis-1,2-Dichloroethene	42.21	5.0	50	0	84.4	68.8-130	47.87	12.6	23.7	
Ethylbenzene	39.92	5.0	50	0	79.8	68.6-124	46.56	15.4	24.9	
m,p-Xylene	78.76	5.0	100	0	78.8	64.5-125	92.1	15.6	25.1	
Styrene	38.09	5.0	50	0	76.2	65.9-125	47.27	21.5	22.8	
Tetrachloroethene	39.95	5.0	50	0	79.9	71.6-135	46.84	15.9	24.7	
Toluene	38.22	5.0	50	0	76.4	67.7-135	46.58	19.7	20	
Trichloroethene	40.73	5.0	50	0	81.5	70.9-139	49.13	18.7	20	
<i>Surr: 4-Bromofluorobenzene</i>	48.71	0	50	0	97.4	62.7-159	48.98	0.553		
<i>Surr: Dibromofluoromethane</i>	52.55	0	50	0	105	88.2-133	51.11	2.78		
<i>Surr: Toluene-d8</i>	48.35	0	50	0	96.7	81.5-110	50.53	4.41		

The following samples were analyzed in this batch:

1305490-06A	1305490-07A	1305490-08A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
WorkOrder: 1305490

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
%	
% of sample	
µg/Kg	
µg/Kg-dry	
µg/L	
mg/Kg	
mg/Kg-dry	
mg/L	

Sample Receipt Checklist

Client Name: **AECOM-CINCINNATI**

Date/Time Received: **22-May-13 00:00**

Work Order: **1305490**

Received by: **CEG**

Checklist completed by: Chris Gibson 23-May-13
eSignature Date

Reviewed by: Rob Nieman 23-Aug-13
eSignature Date

Matrices: Soil/Water

Carrier name: Client

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



12-Jun-2013

Elaine Nomina
AECOM
4219 Malsbury Road
Cincinnati, OH 45242

Tel: (513) 878-6853
Fax: (513) 878-6848

Re: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: **1305506**

Dear Elaine,

ALS Environmental received 1 sample on 22-May-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 39.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

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Environmental 

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RIGHT SOLUTIONS. RIGHT PARTNER.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305506

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1305506-01	SW-4-052213	Water		5/22/2013 08:10	5/22/2013	<input type="checkbox"/>

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305506

Case Narrative

The analyses requested were analyzed according to Ohio Voluntary Action Program requirements.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The pesticides and herbicides samples were out of temperature control limits.

The pesticides and herbicides analysis was performed by Microbac Laboratories, Marietta, OH.

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305506

Sample ID: SW-4-052213

Lab ID: 1305506-01

Collection Date: 5/22/2013 08:10 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.49	µg/L	1	5/30/2013 01:00 PM
Aroclor 1221	ND		0.49	µg/L	1	5/30/2013 01:00 PM
Aroclor 1232	ND		0.49	µg/L	1	5/30/2013 01:00 PM
Aroclor 1242	ND		0.49	µg/L	1	5/30/2013 01:00 PM
Aroclor 1248	ND		0.49	µg/L	1	5/30/2013 01:00 PM
Aroclor 1254	ND		0.49	µg/L	1	5/30/2013 01:00 PM
Aroclor 1260	ND		0.49	µg/L	1	5/30/2013 01:00 PM
Surr: Decachlorobiphenyl	81.4		37-108	%REC	1	5/30/2013 01:00 PM
Surr: Tetrachloro-m-xylene	90.4		9-136	%REC	1	5/30/2013 01:00 PM
MERCURY BY CVAA			SW7470A		Prep Date: 5/27/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	5/28/2013 07:41 PM
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Aluminum	ND		0.20	mg/L	1	5/24/2013 05:44 PM
Antimony	0.0067		0.0060	mg/L	1	5/24/2013 05:44 PM
Arsenic	ND		0.010	mg/L	1	5/24/2013 05:44 PM
Barium	ND		0.10	mg/L	1	5/24/2013 05:44 PM
Beryllium	ND		0.0040	mg/L	1	5/24/2013 05:44 PM
Cadmium	ND		0.0050	mg/L	1	5/24/2013 05:44 PM
Calcium	540		0.20	mg/L	1	5/24/2013 05:44 PM
Chromium	ND		0.020	mg/L	1	5/24/2013 05:44 PM
Cobalt	ND		0.050	mg/L	1	5/24/2013 05:44 PM
Copper	ND		0.025	mg/L	1	5/24/2013 05:44 PM
Iron	ND		0.20	mg/L	1	5/24/2013 05:44 PM
Lead	ND		0.015	mg/L	1	5/24/2013 05:44 PM
Magnesium	63		0.20	mg/L	1	5/24/2013 05:44 PM
Manganese	ND		0.050	mg/L	1	5/24/2013 05:44 PM
Nickel	ND		0.040	mg/L	1	5/24/2013 05:44 PM
Potassium	3.2		0.20	mg/L	1	5/24/2013 05:44 PM
Selenium	ND		0.030	mg/L	1	5/24/2013 05:44 PM
Silver	ND		0.010	mg/L	1	5/24/2013 05:44 PM
Sodium	15		0.20	mg/L	1	5/24/2013 05:44 PM
Thallium	ND		0.0020	mg/L	1	5/24/2013 05:44 PM
Vanadium	ND		0.050	mg/L	1	5/24/2013 05:44 PM
Zinc	ND		0.050	mg/L	1	5/24/2013 05:44 PM
SM2340B HARDNESS BY CALCULATION			SM2340B			Analyst: KMW
CaCO3	1,500		5.0	mg/L	1	5/29/2013
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 5/29/2013	Analyst: Microb

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305506

Sample ID: SW-4-052213

Lab ID: 1305506-01

Collection Date: 5/22/2013 08:10 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4,4'-DDD	ND		0.050	µg/L	1	6/4/2013 02:50 AM
4,4'-DDE	ND		0.050	µg/L	1	6/4/2013 02:50 AM
4,4'-DDT	ND		0.050	µg/L	1	6/4/2013 02:50 AM
Aldrin	ND		0.050	µg/L	1	6/4/2013 02:50 AM
alpha Chlordane	ND		0.050	µg/L	1	6/4/2013 02:50 AM
alpha-BHC	ND		0.050	µg/L	1	6/4/2013 02:50 AM
beta-BHC	ND		0.050	µg/L	1	6/4/2013 02:50 AM
delta-BHC	ND		0.050	µg/L	1	6/4/2013 02:50 AM
Dieldrin	ND		0.050	µg/L	1	6/4/2013 02:50 AM
Endosulfan I	ND		0.050	µg/L	1	6/4/2013 02:50 AM
Endosulfan II	ND		0.050	µg/L	1	6/4/2013 02:50 AM
Endosulfan sulfate	ND		0.050	µg/L	1	6/4/2013 02:50 AM
Endrin	ND		0.050	µg/L	1	6/4/2013 02:50 AM
Endrin aldehyde	ND		0.050	µg/L	1	6/4/2013 02:50 AM
Endrin ketone	ND		0.050	µg/L	1	6/4/2013 02:50 AM
gamma Chlordane	ND		0.050	µg/L	1	6/4/2013 02:50 AM
gamma-BHC (Lindane)	ND		0.050	µg/L	1	6/4/2013 02:50 AM
Heptachlor	ND		0.050	µg/L	1	6/4/2013 02:50 AM
Heptachlor epoxide	ND		0.050	µg/L	1	6/4/2013 02:50 AM
Methoxychlor	ND		0.050	µg/L	1	6/4/2013 02:50 AM
Toxaphene	ND		1.0	µg/L	1	6/4/2013 02:50 AM
Surr: Decachlorobiphenyl	33.0		25-140	%REC	1	6/4/2013 02:50 AM
Surr: Tetrachloro-m-xylene	38.6		20-180	%REC	1	6/4/2013 02:50 AM

HERBICIDES

SW8151

Prep Date: 5/29/2013

Analyst: Microb

2,4,5-T	ND		0.20	µg/L	1	6/4/2013 05:48 AM
2,4,5-TP (Silvex)	ND		0.20	µg/L	1	6/4/2013 05:48 AM
2,4-D	ND		2.0	µg/L	1	6/4/2013 05:48 AM
2,4-DB	ND		2.0	µg/L	1	6/4/2013 05:48 AM
Dalapon	ND		5.0	µg/L	1	6/4/2013 05:48 AM
Dicamba	ND		0.20	µg/L	1	6/4/2013 05:48 AM
Dichlorprop	ND		2.0	µg/L	1	6/4/2013 05:48 AM
Dinoseb	ND		1.0	µg/L	1	6/4/2013 05:48 AM
MCPA	ND		250	µg/L	1	6/4/2013 05:48 AM
MCPP	ND		250	µg/L	1	6/4/2013 05:48 AM
Pentachlorophenol	ND		0.20	µg/L	1	6/4/2013 05:48 AM
Surr: 2,4-Dichlorophenylacetic acid	106		20-144	%REC	1	6/4/2013 05:48 AM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 5/23/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		10	µg/L	1	5/29/2013 05:47 AM
1,2,4-Trichlorobenzene	ND		10	µg/L	1	5/29/2013 05:47 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305506

Sample ID: SW-4-052213

Lab ID: 1305506-01

Collection Date: 5/22/2013 08:10 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichlorobenzene	ND		10	µg/L	1	5/29/2013 05:47 AM
1,3-Dichlorobenzene	ND		10	µg/L	1	5/29/2013 05:47 AM
1,3-Dinitrobenzene	ND		10	µg/L	1	5/29/2013 05:47 AM
1,4-Dichlorobenzene	ND		10	µg/L	1	5/29/2013 05:47 AM
1-Methylnaphthalene	ND		0.10	µg/L	1	5/29/2013 02:22 AM
1-Naphthylamine	ND		10	µg/L	1	5/29/2013 05:47 AM
2,3,4,6-Tetrachlorophenol	ND		10	µg/L	1	5/29/2013 05:47 AM
2,4,5-Trichlorophenol	ND		10	µg/L	1	5/29/2013 05:47 AM
2,4,6-Trichlorophenol	ND		10	µg/L	1	5/29/2013 05:47 AM
2,4-Dichlorophenol	ND		10	µg/L	1	5/29/2013 05:47 AM
2,4-Dimethylphenol	ND		10	µg/L	1	5/29/2013 05:47 AM
2,4-Dinitrophenol	ND		10	µg/L	1	5/29/2013 05:47 AM
2,4-Dinitrotoluene	ND		10	µg/L	1	5/29/2013 05:47 AM
2,6-Dichlorophenol	ND		10	µg/L	1	5/29/2013 05:47 AM
2,6-Dinitrotoluene	ND		10	µg/L	1	5/29/2013 05:47 AM
2-Acetylaminofluorene	ND		10	µg/L	1	5/29/2013 05:47 AM
2-Chloronaphthalene	ND		10	µg/L	1	5/29/2013 05:47 AM
2-Chlorophenol	ND		10	µg/L	1	5/29/2013 05:47 AM
2-Methylnaphthalene	ND		0.10	µg/L	1	5/29/2013 02:22 AM
2-Methylphenol	ND		10	µg/L	1	5/29/2013 05:47 AM
2-Naphthylamine	ND		20	µg/L	1	5/29/2013 05:47 AM
2-Nitroaniline	ND		10	µg/L	1	5/29/2013 05:47 AM
2-Nitrophenol	ND		10	µg/L	1	5/29/2013 05:47 AM
2-Picoline	ND		20	µg/L	1	5/29/2013 05:47 AM
3&4-Methylphenol	ND		10	µg/L	1	5/29/2013 05:47 AM
3,3'-Dichlorobenzidine	ND		10	µg/L	1	5/29/2013 05:47 AM
3-Methylcholanthrene	ND		20	µg/L	1	5/29/2013 05:47 AM
3-Nitroaniline	ND		20	µg/L	1	5/29/2013 05:47 AM
4,6-Dinitro-2-methylphenol	ND		20	µg/L	1	5/29/2013 05:47 AM
4-Aminobiphenyl	ND		10	µg/L	1	5/29/2013 05:47 AM
4-Bromophenyl phenyl ether	ND		20	µg/L	1	5/29/2013 05:47 AM
4-Chloro-3-methylphenol	ND		20	µg/L	1	5/29/2013 05:47 AM
4-Chloroaniline	ND		10	µg/L	1	5/29/2013 05:47 AM
4-Chlorophenyl phenyl ether	ND		20	µg/L	1	5/29/2013 05:47 AM
4-Nitroaniline	ND		20	µg/L	1	5/29/2013 05:47 AM
4-Nitrophenol	ND		10	µg/L	1	5/29/2013 05:47 AM
4-Nitroquinoline 1-oxide	ND		10	µg/L	1	5/29/2013 05:47 AM
5-Nitro-o-toluidine	ND		10	µg/L	1	5/29/2013 05:47 AM
7,12-Dimethylbenz(a)anthracene	ND		10	µg/L	1	5/29/2013 05:47 AM
Acenaphthene	ND		0.10	µg/L	1	5/29/2013 02:22 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305506

Sample ID: SW-4-052213

Lab ID: 1305506-01

Collection Date: 5/22/2013 08:10 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Acenaphthylene	ND		0.10	µg/L	1	5/29/2013 02:22 AM
Acetophenone	ND		10	µg/L	1	5/29/2013 05:47 AM
Aniline	ND		10	µg/L	1	5/29/2013 05:47 AM
Anthracene	ND		0.10	µg/L	1	5/29/2013 02:22 AM
Azobenzene	ND		10	µg/L	1	5/29/2013 05:47 AM
Benzidine	ND		10	µg/L	1	5/29/2013 05:47 AM
Benzo(a)anthracene	ND		0.10	µg/L	1	5/29/2013 02:22 AM
Benzo(a)pyrene	ND		0.10	µg/L	1	5/29/2013 02:22 AM
Benzo(b)fluoranthene	ND		0.11	µg/L	1	5/29/2013 02:22 AM
Benzo(g,h,i)perylene	ND		0.10	µg/L	1	5/29/2013 02:22 AM
Benzo(k)fluoranthene	ND		0.16	µg/L	1	5/29/2013 02:22 AM
Benzyl alcohol	ND		10	µg/L	1	5/29/2013 05:47 AM
Bis(2-chloroethoxy)methane	ND		10	µg/L	1	5/29/2013 05:47 AM
Bis(2-chloroethyl)ether	ND		10	µg/L	1	5/29/2013 05:47 AM
Bis(2-chloroisopropyl)ether	ND		10	µg/L	1	5/29/2013 05:47 AM
Bis(2-ethylhexyl)phthalate	ND		10	µg/L	1	5/29/2013 05:47 AM
Butyl benzyl phthalate	ND		10	µg/L	1	5/29/2013 05:47 AM
Carbazole	ND		10	µg/L	1	5/29/2013 02:22 AM
Chrysene	ND		0.10	µg/L	1	5/29/2013 02:22 AM
Dibenzo(a,h)anthracene	ND		0.10	µg/L	1	5/29/2013 02:22 AM
Dibenzofuran	ND		10	µg/L	1	5/29/2013 02:22 AM
Diethyl phthalate	ND		10	µg/L	1	5/29/2013 05:47 AM
Dimethyl phthalate	ND		10	µg/L	1	5/29/2013 05:47 AM
Di-n-butyl phthalate	ND		10	µg/L	1	5/29/2013 05:47 AM
Di-n-octyl phthalate	ND		10	µg/L	1	5/29/2013 05:47 AM
Dinoseb	ND		20	µg/L	1	5/29/2013 05:47 AM
Diphenylamine	ND		10	µg/L	1	5/29/2013 05:47 AM
Ethyl methanesulfonate	ND		10	µg/L	1	5/29/2013 05:47 AM
Fluoranthene	ND		0.10	µg/L	1	5/29/2013 02:22 AM
Fluorene	ND		0.10	µg/L	1	5/29/2013 02:22 AM
Hexachlorobenzene	ND		10	µg/L	1	5/29/2013 05:47 AM
Hexachlorobutadiene	ND		10	µg/L	1	5/29/2013 05:47 AM
Hexachlorocyclopentadiene	ND		10	µg/L	1	5/29/2013 05:47 AM
Hexachloroethane	ND		10	µg/L	1	5/29/2013 05:47 AM
Indeno(1,2,3-cd)pyrene	ND		0.10	µg/L	1	5/29/2013 02:22 AM
Isophorone	ND		10	µg/L	1	5/29/2013 05:47 AM
Isosafrole	ND		10	µg/L	1	5/29/2013 05:47 AM
Methapyrilene	ND		10	µg/L	1	5/29/2013 05:47 AM
Methyl methanesulfonate	ND		10	µg/L	1	5/29/2013 05:47 AM
Naphthalene	ND		0.10	µg/L	1	5/29/2013 02:22 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305506

Sample ID: SW-4-052213

Lab ID: 1305506-01

Collection Date: 5/22/2013 08:10 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Nitrobenzene	ND		10	µg/L	1	5/29/2013 05:47 AM
N-Nitrosodiethylamine	ND		10	µg/L	1	5/29/2013 05:47 AM
N-Nitrosodimethylamine	ND		10	µg/L	1	5/29/2013 05:47 AM
N-Nitroso-di-n-butylamine	ND		10	µg/L	1	5/29/2013 05:47 AM
N-Nitrosodi-n-propylamine	ND		10	µg/L	1	5/29/2013 05:47 AM
N-Nitrosomethylethylamine	ND		10	µg/L	1	5/29/2013 05:47 AM
N-Nitrosomorpholine	ND		10	µg/L	1	5/29/2013 05:47 AM
N-Nitrosopiperidine	ND		10	µg/L	1	5/29/2013 05:47 AM
N-Nitrosopyrrolidine	ND		10	µg/L	1	5/29/2013 05:47 AM
o-Toluidine	ND		10	µg/L	1	5/29/2013 05:47 AM
p-Dimethylaminoazobenzene	ND		10	µg/L	1	5/29/2013 05:47 AM
Pentachlorobenzene	ND		10	µg/L	1	5/29/2013 05:47 AM
Pentachloroethane	ND		10	µg/L	1	5/29/2013 05:47 AM
Pentachloronitrobenzene	ND		20	µg/L	1	5/29/2013 05:47 AM
Pentachlorophenol	ND		20	µg/L	1	5/29/2013 05:47 AM
Phenacetin	ND		20	µg/L	1	5/29/2013 05:47 AM
Phenanthrene	ND		0.10	µg/L	1	5/29/2013 02:22 AM
Phenol	ND		10	µg/L	1	5/29/2013 05:47 AM
Pyrene	ND		0.10	µg/L	1	5/29/2013 02:22 AM
Pyridine	ND		10	µg/L	1	5/29/2013 05:47 AM
Safrole	ND		10	µg/L	1	5/29/2013 05:47 AM
Surr: 2,4,6-Tribromophenol	73.3		35-120	%REC	1	5/29/2013 05:47 AM
Surr: 2-Fluorobiphenyl	72.5		38-105	%REC	1	5/29/2013 05:47 AM
Surr: 2-Fluorophenol	50.9		12-89	%REC	1	5/29/2013 05:47 AM
Surr: 4-Terphenyl-d14	79.6		42-125	%REC	1	5/29/2013 05:47 AM
Surr: Nitrobenzene-d5	111		28-120	%REC	1	5/29/2013 05:47 AM
Surr: Phenol-d5	34.0		10-62	%REC	1	5/29/2013 05:47 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	5/29/2013 09:18 AM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	5/29/2013 09:18 AM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	5/29/2013 09:18 AM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	5/29/2013 09:18 AM
1,1-Dichloroethane	ND		5.0	µg/L	1	5/29/2013 09:18 AM
1,1-Dichloroethene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
1,1-Dichloropropene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	5/29/2013 09:18 AM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	5/29/2013 09:18 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305506

Sample ID: SW-4-052213

Lab ID: 1305506-01

Collection Date: 5/22/2013 08:10 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dibromoethane	ND		5.0	µg/L	1	5/29/2013 09:18 AM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
1,2-Dichloroethane	ND		5.0	µg/L	1	5/29/2013 09:18 AM
1,2-Dichloropropane	ND		5.0	µg/L	1	5/29/2013 09:18 AM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
1,3-Dichloropropane	ND		5.0	µg/L	1	5/29/2013 09:18 AM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
2,2-Dichloropropane	ND		5.0	µg/L	1	5/29/2013 09:18 AM
2-Butanone	ND		5.0	µg/L	1	5/29/2013 09:18 AM
2-Chlorotoluene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
2-Hexanone	ND		5.0	µg/L	1	5/29/2013 09:18 AM
4-Chlorotoluene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Acetone	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Benzene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Bromobenzene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Bromochloromethane	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Bromodichloromethane	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Bromoform	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Bromomethane	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Carbon disulfide	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Carbon tetrachloride	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Chlorobenzene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Chloroethane	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Chloroform	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Chloromethane	ND		5.0	µg/L	1	5/29/2013 09:18 AM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Dibromochloromethane	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Dibromomethane	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Dichlorodifluoromethane	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Ethylbenzene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Hexachlorobutadiene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Isopropylbenzene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
m,p-Xylene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Methyl tert-butyl ether	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Methylene chloride	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Naphthalene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
n-Butylbenzene	ND		5.0	µg/L	1	5/29/2013 09:18 AM

Note:

ALS Environmental

Date: 12-Jun-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305506

Sample ID: SW-4-052213

Lab ID: 1305506-01

Collection Date: 5/22/2013 08:10 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
n-Propylbenzene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
o-Xylene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
p-Isopropyltoluene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
sec-Butylbenzene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Styrene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
tert-Butylbenzene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Tetrachloroethene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Toluene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Trichloroethene	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Trichlorofluoromethane	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Vinyl chloride	ND		2.0	µg/L	1	5/29/2013 09:18 AM
Xylenes, Total	ND		5.0	µg/L	1	5/29/2013 09:18 AM
Surr: 4-Bromofluorobenzene	97.2		61-131	%REC	1	5/29/2013 09:18 AM
Surr: Dibromofluoromethane	99.2		87-126	%REC	1	5/29/2013 09:18 AM
Surr: Toluene-d8	102		84-111	%REC	1	5/29/2013 09:18 AM

Note:

Client: AECOM

QC BATCH REPORT

Work Order: 1305506

Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

Batch ID: 16890

Instrument ID: GC9

Method: SW8082

MBLK		Sample ID: MBLK-16890-16890			Units: µg/L		Analysis Date: 5/30/2013 01:00 PM			
Client ID:		Run ID: GC9_130530B			SeqNo: 618593		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.50								
Aroclor 1221	ND	0.50								
Aroclor 1232	ND	0.50								
Aroclor 1242	ND	0.50								
Aroclor 1248	ND	0.50								
Aroclor 1254	ND	0.50								
Aroclor 1260	ND	0.50								
Surr: Decachlorobiphenyl	0.413	0	0.5	0	82.6	37-108	0			
Surr: Tetrachloro-m-xylene	0.391	0	0.5	0	78.2	9-136	0			

LCS		Sample ID: LCS-16890-16890			Units: µg/L		Analysis Date: 5/30/2013 01:00 PM			
Client ID:		Run ID: GC9_130530B			SeqNo: 618594		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	9.57	0.50	10	0	95.7	61-122	0			
Surr: Decachlorobiphenyl	0.383	0	0.5	0	76.6	37-108	0			
Surr: Tetrachloro-m-xylene	0.393	0	0.5	0	78.6	9-136	0			

MS		Sample ID: 1305506-01DMS			Units: µg/L		Analysis Date: 5/30/2013 01:00 PM			
Client ID: SW-4-052213		Run ID: GC9_130530B			SeqNo: 618598		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	7.811	0.49	9.804	0	79.7	61-120	0			
Surr: Decachlorobiphenyl	0.3294	0	0.4902	0	67.2	37-108	0			
Surr: Tetrachloro-m-xylene	ND	0	0.4902	0	0	9-136	0			S

MSD		Sample ID: 1305506-01DMSD			Units: µg/L		Analysis Date: 5/30/2013 01:00 PM			
Client ID: SW-4-052213		Run ID: GC9_130530B			SeqNo: 618599		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	6.564	0.49	9.804	0	67	61-120	6.564	0	20	
Surr: Decachlorobiphenyl	0.2794	0	0.4902	0	57	37-108	0.2794	0		
Surr: Tetrachloro-m-xylene	ND	0	0.4902	0	0	9-136	0	0		S

The following samples were analyzed in this batch: 1305506-01D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305506
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16833** Instrument ID: **HG1** Method: **SW7470A**

MBLK	Sample ID: MBLK-16833-16833	Units: µg/L					Analysis Date: 5/28/2013 07:16 PM				
Client ID:	Run ID: HG1_130528D	SeqNo: 616156					Prep Date: 5/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury ND 0.50

LCS	Sample ID: LCS-16833-16833	Units: µg/L					Analysis Date: 5/28/2013 07:12 PM				
Client ID:	Run ID: HG1_130528D	SeqNo: 616154					Prep Date: 5/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 5.1 0.50 5 0 102 80-120 0

LCSD	Sample ID: LCSD-16833-16833	Units: µg/L					Analysis Date: 5/28/2013 07:14 PM				
Client ID:	Run ID: HG1_130528D	SeqNo: 616155					Prep Date: 5/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 5.2 0.50 5 0 104 80-120 5.1 1.94 20

MS	Sample ID: 1305506-01B MS	Units: µg/L					Analysis Date: 5/28/2013 07:43 PM				
Client ID: SW-4-052213	Run ID: HG1_130528D	SeqNo: 616167					Prep Date: 5/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 5.18 0.50 5 -0.03 104 75-125 0

MSD	Sample ID: 1305506-01B MSD	Units: µg/L					Analysis Date: 5/28/2013 07:45 PM				
Client ID: SW-4-052213	Run ID: HG1_130528D	SeqNo: 616168					Prep Date: 5/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 4.81 0.50 5 -0.03 96.8 75-125 5.18 7.41 20

The following samples were analyzed in this batch:

Client: AECOM
Work Order: 1305506
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16813** Instrument ID: **ICP3** Method: **SW6010B**

MBLK		Sample ID: mblk-16813-16813		Units: mg/L		Analysis Date: 5/24/2013 05:25 PM				
Client ID:		Run ID: ICP3_130524A		SeqNo: 615058		Prep Date: 5/24/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.20								
Antimony	ND	0.030								
Arsenic	ND	0.010								
Barium	ND	0.10								
Beryllium	ND	0.00040								
Cadmium	ND	0.0050								
Calcium	ND	0.20								
Chromium	ND	0.020								
Cobalt	ND	0.025								
Copper	ND	0.025								
Iron	ND	0.20								
Lead	ND	0.015								
Magnesium	ND	0.20								
Manganese	ND	0.050								
Nickel	ND	0.050								
Potassium	ND	0.20								
Selenium	ND	0.030								
Silver	ND	0.010								
Sodium	ND	0.20								
Thallium	ND	0.0020								
Vanadium	ND	0.050								
Zinc	ND	0.050								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305506
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16813 Instrument ID: ICP3 Method: SW6010B

LCS		Sample ID: Ics-16813-16813			Units: mg/L		Analysis Date: 5/24/2013 05:32 PM			
Client ID:		Run ID: ICP3_130524A			SeqNo: 615059		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.156	0.20	1.1	0	105	80-120	0			
Antimony	1.08	0.030	1.1	0	98.2	80-120	0			
Arsenic	1.123	0.010	1.1	0	102	80-120	0			
Barium	1.146	0.10	1.1	0	104	80-120	0			
Beryllium	1.114	0.00040	1.1	0	101	80-120	0			
Cadmium	1.122	0.0050	1.1	0	102	80-120	0			
Calcium	1.086	0.20	1.1	0	98.7	80-120	0			
Chromium	1.123	0.020	1.1	0	102	80-120	0			
Cobalt	1.086	0.025	1.1	0	98.7	80-120	0			
Copper	1.064	0.025	1.1	0	96.7	80-120	0			
Iron	1.124	0.20	1.1	0	102	80-120	0			
Lead	1.133	0.015	1.1	0	103	80-120	0			
Magnesium	1.071	0.20	1.1	0	97.4	80-120	0			
Manganese	1.078	0.050	1.1	0	98	80-120	0			
Nickel	1.088	0.050	1.1	0	98.9	80-120	0			
Potassium	11.18	0.20	11	0	102	80-120	0			
Selenium	1.124	0.030	1.1	0	102	80-120	0			
Silver	1.134	0.010	1.1	0	103	80-120	0			
Sodium	1.162	0.20	1.1	0	106	80-120	0			
Thallium	1.065	0.0020	1.1	0	96.8	80-120	0			
Vanadium	1.085	0.050	1.1	0	98.7	80-120	0			
Zinc	1.096	0.050	1.1	0	99.6	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305506
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16813** Instrument ID: **ICP3** Method: **SW6010B**

LCSD		Sample ID: lcsd-16813-16813			Units: mg/L		Analysis Date: 5/24/2013 05:38 PM			
Client ID:		Run ID: ICP3_130524A			SeqNo: 615060		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.156	0.20	1.1	0	105	80-120	1.156	0	20	
Antimony	1.079	0.030	1.1	0	98.1	80-120	1.08	0.0713	20	
Arsenic	1.114	0.010	1.1	0	101	80-120	1.123	0.787	20	
Barium	1.137	0.10	1.1	0	103	80-120	1.146	0.771	20	
Beryllium	1.114	0.00040	1.1	0	101	80-120	1.114	0	20	
Cadmium	1.118	0.0050	1.1	0	102	80-120	1.122	0.393	20	
Calcium	1.086	0.20	1.1	0	98.7	80-120	1.086	0.0101	20	
Chromium	1.12	0.020	1.1	0	102	80-120	1.123	0.294	20	
Cobalt	1.082	0.025	1.1	0	98.4	80-120	1.086	0.386	20	
Copper	1.057	0.025	1.1	0	96	80-120	1.064	0.716	20	
Iron	1.133	0.20	1.1	0	103	80-120	1.124	0.78	20	
Lead	1.128	0.015	1.1	0	102	80-120	1.133	0.487	20	
Magnesium	1.07	0.20	1.1	0	97.2	80-120	1.071	0.144	20	
Manganese	1.078	0.050	1.1	0	98	80-120	1.078	0.0612	20	
Nickel	1.084	0.050	1.1	0	98.5	80-120	1.088	0.405	20	
Potassium	11.01	0.20	11	0	100	80-120	11.18	1.49	20	
Selenium	1.121	0.030	1.1	0	102	80-120	1.124	0.294	20	
Silver	1.124	0.010	1.1	0	102	80-120	1.134	0.877	20	
Sodium	1.158	0.20	1.1	0	105	80-120	1.162	0.284	20	
Thallium	1.062	0.0020	1.1	0	96.6	80-120	1.065	0.248	20	
Vanadium	1.087	0.050	1.1	0	98.8	80-120	1.085	0.142	20	
Zinc	1.09	0.050	1.1	0	99.1	80-120	1.096	0.503	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305506
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16813 Instrument ID: ICP3 Method: SW6010B

MS		Sample ID: 1305506-01b ms			Units: mg/L		Analysis Date: 5/24/2013 05:50 PM			
Client ID: SW-4-052213		Run ID: ICP3_130524A			SeqNo: 615062		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.229	0.20	1.1	0.05075	107	75-125	0			
Antimony	1.101	0.030	1.1	0.006678	99.5	75-125	0			
Arsenic	1.157	0.010	1.1	-0.0004254	105	75-125	0			
Barium	1.114	0.10	1.1	0.02464	99.1	75-125	0			
Beryllium	1.145	0.00040	1.1	-0.0002857	104	75-125	0			
Cadmium	1.113	0.0050	1.1	0.00002446	101	75-125	0			
Calcium	547.1	0.20	1.1	542.7	400	75-125	0			SO
Chromium	1.06	0.020	1.1	0.003893	96	75-125	0			
Cobalt	0.9959	0.025	1.1	-0.00009132	90.5	75-125	0			
Copper	1.039	0.025	1.1	-0.0003872	94.5	75-125	0			
Iron	1.238	0.20	1.1	0.09043	104	75-125	0			
Lead	1.017	0.015	1.1	0.00717	91.8	75-125	0			
Magnesium	64.17	0.20	1.1	62.78	127	75-125	0			SO
Manganese	1.116	0.050	1.1	0.02411	99.3	75-125	0			
Nickel	0.9908	0.050	1.1	0.000003978	90.1	75-125	0			
Potassium	15.47	0.20	11	3.219	111	75-125	0			
Selenium	1.158	0.030	1.1	0.001713	105	75-125	0			
Silver	1.115	0.010	1.1	-0.0006149	101	75-125	0			
Sodium	15.63	0.20	1.1	14.77	78	75-125	0			O
Thallium	0.9332	0.0020	1.1	0.001605	84.7	75-125	0			
Vanadium	1.129	0.050	1.1	0.003257	102	75-125	0			
Zinc	1.031	0.050	1.1	0.01863	92	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305506
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16813 Instrument ID: ICP3 Method: SW6010B

MSD		Sample ID: 1305506-01b msd			Units: mg/L		Analysis Date: 5/24/2013 05:57 PM			
Client ID: SW-4-052213		Run ID: ICP3_130524A			SeqNo: 615063		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.283	0.20	1.1	0.05075	112	75-125	1.229	4.29	20	
Antimony	1.109	0.030	1.1	0.006678	100	75-125	1.101	0.697	20	
Arsenic	1.175	0.010	1.1	-0.0004254	107	75-125	1.157	1.51	20	
Barium	1.118	0.10	1.1	0.02464	99.4	75-125	1.114	0.296	20	
Beryllium	1.185	0.00040	1.1	-0.0002857	108	75-125	1.145	3.4	20	
Cadmium	1.121	0.0050	1.1	0.00002446	102	75-125	1.113	0.689	20	
Calcium	559.7	0.20	1.1	542.7	1540	75-125	547.1	2.27	20	SEO
Chromium	1.088	0.020	1.1	0.003893	98.5	75-125	1.06	2.54	20	
Cobalt	1.003	0.025	1.1	-0.00009132	91.2	75-125	0.9959	0.671	20	
Copper	1.058	0.025	1.1	-0.0003872	96.2	75-125	1.039	1.79	20	
Iron	1.274	0.20	1.1	0.09043	108	75-125	1.238	2.89	20	
Lead	1.027	0.015	1.1	0.00717	92.7	75-125	1.017	0.98	20	
Magnesium	66.11	0.20	1.1	62.78	303	75-125	64.17	2.97	20	SO
Manganese	1.143	0.050	1.1	0.02411	102	75-125	1.116	2.34	20	
Nickel	1.001	0.050	1.1	0.000003978	91	75-125	0.9908	1.07	20	
Potassium	15.68	0.20	11	3.219	113	75-125	15.47	1.34	20	
Selenium	1.172	0.030	1.1	0.001713	106	75-125	1.158	1.13	20	
Silver	1.138	0.010	1.1	-0.0006149	104	75-125	1.115	2.05	20	
Sodium	15.69	0.20	1.1	14.77	83	75-125	15.63	0.351	20	O
Thallium	0.945	0.0020	1.1	0.001605	85.8	75-125	0.9332	1.25	20	
Vanadium	1.158	0.050	1.1	0.003257	105	75-125	1.129	2.6	20	
Zinc	1.039	0.050	1.1	0.01863	92.7	75-125	1.031	0.733	20	

The following samples were analyzed in this batch:

1305506-01b

Client: AECOM
 Work Order: 1305506
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99706a** Instrument ID: **SUB** Method: **SW8081A**

MBLK		Sample ID: MBLK-R99706a			Units: µg/L		Analysis Date: 6/4/2013 12:59 AM			
Client ID:		Run ID: SUB_130604B			SeqNo: 624722		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	0.050								
4,4'-DDE	ND	0.050								
4,4'-DDT	ND	0.050								
Aldrin	ND	0.050								
alpha Chlordane	ND	0.050								
alpha-BHC	ND	0.050								
beta-BHC	ND	0.050								
delta-BHC	ND	0.050								
Dieldrin	ND	0.050								
Endosulfan I	ND	0.050								
Endosulfan II	ND	0.050								
Endosulfan sulfate	ND	0.050								
Endrin	ND	0.050								
Endrin aldehyde	ND	0.050								
Endrin ketone	ND	0.050								
gamma Chlordane	ND	0.050								
gamma-BHC (Lindane)	ND	0.050								
Heptachlor	ND	0.050								
Heptachlor epoxide	ND	0.050								
Methoxychlor	ND	0.050								
Toxaphene	ND	1.0								
<i>Surr: Decachlorobiphenyl</i>	66.9	0	100	0	66.9	25-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	53.4	0	100	0	53.4	20-180	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305506
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99706a** Instrument ID: **SUB** Method: **SW8081A**

LCS		Sample ID: LCS-R99706a			Units: µg/L		Analysis Date: 6/4/2013 01:26 AM			
Client ID:		Run ID: SUB_130604B			SeqNo: 624723		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.349	0.050	0.5	0	69.8	40-125	0			
4,4'-DDE	0.329	0.050	0.5	0	65.8	40-120	0			
4,4'-DDT	0.374	0.050	0.5	0	74.8	40-125	0			
Aldrin	0.282	0.050	0.5	0	56.4	30-110	0			
alpha Chlordane	0.361	0.050	0.5	0	72.2	40-120	0			
alpha-BHC	0.296	0.050	0.5	0	59.2	30-120	0			
beta-BHC	0.347	0.050	0.5	0	69.4	30-115	0			
delta-BHC	0.342	0.050	0.5	0	68.4	35-130	0			
Dieldrin	0.348	0.050	0.5	0	69.6	40-125	0			
Endosulfan I	0.266	0.050	0.5	0	53.2	30-110	0			
Endosulfan II	0.292	0.050	0.5	0	58.4	30-110	0			
Endosulfan sulfate	0.448	0.050	0.5	0	89.6	35-125	0			
Endrin	0.333	0.050	0.5	0	66.6	35-120	0			
Endrin aldehyde	0.317	0.050	0.5	0	63.4	30-120	0			
Endrin ketone	0.393	0.050	0.5	0	78.6	40-125	0			
gamma Chlordane	0.36	0.050	0.5	0	72	40-120	0			
gamma-BHC (Lindane)	0.303	0.050	0.5	0	60.6	30-120	0			
Heptachlor	0.319	0.050	0.5	0	63.8	35-115	0			
Heptachlor epoxide	0.37	0.050	0.5	0	74	35-115	0			
Methoxychlor	0.459	0.050	0.5	0	91.8	30-150	0			
<i>Surr: Decachlorobiphenyl</i>	47.2	0	100	0	47.2	25-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	47.7	0	100	0	47.7	20-180	0			

LCS		Sample ID: LCS-R99706a			Units: µg/L		Analysis Date: 6/4/2013 01:54 AM			
Client ID:		Run ID: SUB_130604B			SeqNo: 624727		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Toxaphene	2.13	1.0	2	0	106	41-126	0			
<i>Surr: Decachlorobiphenyl</i>	78.4	0	100	0	78.4	25-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	66	0	100	0	66	20-180	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305506
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99706a** Instrument ID: **SUB** Method: **SW8081A**

MS		Sample ID: 1305506-01E MS			Units: µg/L		Analysis Date: 6/4/2013 03:17 AM			
Client ID: SW-4-052213		Run ID: SUB_130604B			SeqNo: 624725		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.394	0.050	0.5	0	78.8	40-125	0			
4,4'-DDE	0.358	0.050	0.5	0	71.6	40-120	0			
4,4'-DDT	0.402	0.050	0.5	0	80.4	40-125	0			
Aldrin	0.344	0.050	0.5	0	68.8	30-110	0			
alpha Chlordane	0.416	0.050	0.5	0	83.2	40-120	0			
alpha-BHC	0.352	0.050	0.5	0	70.4	30-120	0			
beta-BHC	0.4	0.050	0.5	0	80	30-115	0			
delta-BHC	0.399	0.050	0.5	0	79.8	35-130	0			
Dieldrin	0.403	0.050	0.5	0	80.6	40-125	0			
Endosulfan I	0.315	0.050	0.5	0	63	30-110	0			
Endosulfan II	0.342	0.050	0.5	0	68.4	30-110	0			
Endosulfan sulfate	0.506	0.050	0.5	0	101	35-125	0			
Endrin	0.383	0.050	0.5	0	76.6	35-120	0			
Endrin aldehyde	0.384	0.050	0.5	0	76.8	30-120	0			
Endrin ketone	0.45	0.050	0.5	0	90	40-125	0			
gamma Chlordane	0.415	0.050	0.5	0	83	40-120	0			
gamma-BHC (Lindane)	0.361	0.050	0.5	0	72.2	30-120	0			
Heptachlor	0.398	0.050	0.5	0	79.6	35-115	0			
Heptachlor epoxide	0.434	0.050	0.5	0	86.8	35-115	0			
Methoxychlor	0.509	0.050	0.5	0	102	30-150	0			
<i>Surr: Decachlorobiphenyl</i>	48.6	0	100	0	48.6	25-140	0			
<i>Surr: Tetrachloro-m-xylene</i>	57.7	0	100	0	57.7	20-180	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305506
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99706a** Instrument ID: **SUB** Method: **SW8081A**

MSD		Sample ID: 1305506-01E MSD				Units: µg/L		Analysis Date: 6/4/2013 03:46 AM		
Client ID: SW-4-052213		Run ID: SUB_130604B				SeqNo: 624726		Prep Date: 5/29/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	0.403	0.050	0.5	0	80.6	40-125	0.394	2.26	30	
4,4'-DDE	0.378	0.050	0.5	0	75.6	40-120	0.358	5.43	30	
4,4'-DDT	0.421	0.050	0.5	0	84.2	40-125	0.402	4.62	30	
Aldrin	0.358	0.050	0.5	0	71.6	30-110	0.344	3.99	30	
alpha Chlordane	0.431	0.050	0.5	0	86.2	40-120	0.416	3.54	30	
alpha-BHC	0.375	0.050	0.5	0	75	30-120	0.352	6.33	30	
beta-BHC	0.412	0.050	0.5	0	82.4	30-115	0.4	2.96	30	
delta-BHC	0.407	0.050	0.5	0	81.4	35-130	0.399	1.99	30	
Dieldrin	0.412	0.050	0.5	0	82.4	40-125	0.403	2.21	30	
Endosulfan I	0.326	0.050	0.5	0	65.2	30-110	0.315	3.43	30	
Endosulfan II	0.344	0.050	0.5	0	68.8	30-110	0.342	0.583	30	
Endosulfan sulfate	0.492	0.050	0.5	0	98.4	35-125	0.506	2.81	30	
Endrin	0.393	0.050	0.5	0	78.6	35-120	0.383	2.58	30	
Endrin aldehyde	0.385	0.050	0.5	0	77	30-120	0.384	0.26	30	
Endrin ketone	0.447	0.050	0.5	0	89.4	40-125	0.45	0.669	30	
gamma Chlordane	0.431	0.050	0.5	0	86.2	40-120	0.415	3.78	30	
gamma-BHC (Lindane)	0.379	0.050	0.5	0	75.8	30-120	0.361	4.86	30	
Heptachlor	0.415	0.050	0.5	0	83	35-115	0.398	4.18	30	
Heptachlor epoxide	0.451	0.050	0.5	0	90.2	35-115	0.434	3.84	30	
Methoxychlor	0.516	0.050	0.5	0	103	30-150	0.509	1.37	30	
<i>Surr: Decachlorobiphenyl</i>	52.3	0	100	0	52.3	25-140	48.6	7.33		
<i>Surr: Tetrachloro-m-xylene</i>	61.8	0	100	0	61.8	20-180	57.7	6.86		

The following samples were analyzed in this batch:

1305506-01E

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305506
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99706b** Instrument ID: **SUB** Method: **SW8151**

MBLK		Sample ID: MB-R99706-R99706b			Units: µg/L		Analysis Date: 6/4/2013 01:31 AM			
Client ID:		Run ID: SUB_130604B			SeqNo: 624735		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	ND	0.20								
2,4,5-TP (Silvex)	ND	0.20								
2,4-D	ND	2.0								
2,4-DB	ND	2.0								
Dalapon	ND	5.0								
Dicamba	ND	0.20								
Dichlorprop	ND	2.0								
Dinoseb	ND	1.0								
MCPA	ND	250								
MCPD	ND	250								
Pentachlorophenol	ND	0.20								
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	101	0	100	0	101	20-144	0			

LCS		Sample ID: LCS-R99706-R99706b			Units: µg/L		Analysis Date: 6/4/2013 01:57 AM			
Client ID:		Run ID: SUB_130604B			SeqNo: 624736		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	0.351	0.20	0.5	0	70.2	30-110	0			
2,4,5-TP (Silvex)	0.339	0.20	0.5	0	67.8	30-110	0			
2,4-D	2.85	2.0	5	0	57	30-100	0			
2,4-DB	2.47	2.0	5	0	49.4	30-110	0			
Dalapon	ND	5.0	12.5	0	28.6	10-100	0			
Dicamba	0.354	0.20	0.5	0	70.8	30-135	0			
Dichlorprop	3.8	2.0	5	0	76	25-115	0			
Dinoseb	1.71	1.0	2.5	0	68.4	30-105	0			
MCPA	307	250	500	0	61.4	25-100	0			
MCPD	331	250	500	0	66.2	30-120	0			
Pentachlorophenol	0.308	0.20	0.5	0	61.6	30-105	0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	95	0	100	0	95	20-144	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305506
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99706b** Instrument ID: **SUB** Method: **SW8151**

MS		Sample ID: 1305506-01F MS			Units: µg/L		Analysis Date: 6/4/2013 06:14 AM			
Client ID: SW-4-052213		Run ID: SUB_130604B			SeqNo: 624738		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	0.362	0.20	0.5	0	72.4	30-110	0			
2,4,5-TP (Silvex)	0.363	0.20	0.5	0	72.6	30-110	0			
2,4-D	3.1	2.0	5	0	62	30-100	0			
2,4-DB	3.03	2.0	5	0	60.6	30-110	0			
Dalapon	ND	5.0	12.5	0	28.2	10-100	0			
Dicamba	0.442	0.20	0.5	0	88.4	30-135	0			
Dichlorprop	4.18	2.0	5	0	83.6	25-115	0			
Dinoseb	1.69	1.0	2.5	0	67.6	30-105	0			
MCPA	328	250	500	0	65.6	25-10	0			S
MCPP	355	250	500	0	71	30-120	0			
Pentachlorophenol	0.291	0.20	0.5	0	58.2	30-105	0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	103	0	100	0	103	20-144	0			

MSD		Sample ID: 1305506-01F MSD			Units: µg/L		Analysis Date: 6/4/2013 06:40 AM			
Client ID: SW-4-052213		Run ID: SUB_130604B			SeqNo: 624739		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	0.417	0.20	0.5	0	83.4	30-110	0.362	14.1	30	
2,4,5-TP (Silvex)	0.426	0.20	0.5	0	85.2	30-110	0.363	16	30	
2,4-D	3.78	2.0	5	0	75.6	30-100	3.1	19.8	30	
2,4-DB	3.43	2.0	5	0	68.6	30-110	3.03	12.4	30	
Dalapon	6.5	5.0	12.5	0	52	10-100	3.53	59.2	30	R
Dicamba	0.557	0.20	0.5	0	111	30-135	0.442	23	30	
Dichlorprop	4.92	2.0	5	0	98.4	25-115	4.18	16.3	30	
Dinoseb	1.97	1.0	2.5	0	78.8	30-105	1.69	15.3	30	
MCPA	401	250	500	0	80.2	25-10	328	20	30	S
MCPP	419	250	500	0	83.8	30-120	355	16.5	30	
Pentachlorophenol	0.348	0.20	0.5	0	69.6	30-105	0.291	17.8	30	
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	123	0	100	0	123	20-144	103	17.7		

The following samples were analyzed in this batch:

1305506-01F

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305506
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16805** Instrument ID: **SVMS3** Method: **SW8270C**

MBLK		Sample ID: mblk-16805-16805		Units: µg/L		Analysis Date: 5/28/2013 10:10 PM				
Client ID:		Run ID: SVMS3_130528A		SeqNo: 617306		Prep Date: 5/23/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.10								
Acenaphthene	ND	0.10								
Acenaphthylene	ND	0.10								
Anthracene	ND	0.10								
Benzo(a)anthracene	ND	0.10								
Benzo(a)pyrene	ND	0.10								
Benzo(b)fluoranthene	ND	0.11								
Benzo(g,h,i)perylene	ND	0.10								
Benzo(k)fluoranthene	ND	0.16								
Carbazole	ND	10								
Chrysene	ND	0.10								
Dibenzo(a,h)anthracene	ND	0.10								
Dibenzofuran	ND	10								
Fluoranthene	ND	0.10								
Fluorene	ND	0.10								
Indeno(1,2,3-cd)pyrene	ND	0.10								
Naphthalene	ND	0.10								
Phenanthrene	ND	0.10								
Pyrene	ND	0.10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305506
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **16805** Instrument ID: **SVMS3** Method: **SW8270C**

MBLK		Sample ID: mblk-16805-16805			Units: µg/L		Analysis Date: 5/28/2013 11:15 PM			
Client ID:		Run ID: SVMS2_130528A			SeqNo: 617374		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	10								
1,2,4-Trichlorobenzene	ND	10								
1,2-Dichlorobenzene	ND	10								
1,3-Dichlorobenzene	ND	10								
1,3-Dinitrobenzene	ND	10								
1,4-Dichlorobenzene	ND	10								
1-Naphthylamine	ND	10								
2,3,4,6-Tetrachlorophenol	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
2,4-Dichlorophenol	ND	10								
2,4-Dimethylphenol	ND	10								
2,4-Dinitrophenol	ND	10								
2,4-Dinitrotoluene	ND	10								
2,6-Dichlorophenol	ND	10								
2,6-Dinitrotoluene	ND	10								
2-Acetylaminofluorene	ND	10								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	10								
2-Methylphenol	ND	10								
2-Naphthylamine	ND	20								
2-Nitroaniline	ND	10								
2-Nitrophenol	ND	10								
2-Picoline	ND	20								
3&4-Methylphenol	ND	10								
3,3'-Dichlorobenzidine	ND	10								
3-Methylcholanthrene	ND	20								
3-Nitroaniline	ND	20								
4,6-Dinitro-2-methylphenol	ND	20								
4-Aminobiphenyl	ND	10								
4-Bromophenyl phenyl ether	ND	20								
4-Chloro-3-methylphenol	ND	20								
4-Chloroaniline	ND	10								
4-Chlorophenyl phenyl ether	ND	20								
4-Nitroaniline	ND	20								
4-Nitrophenol	ND	10								
4-Nitroquinoline 1-oxide	ND	10								
5-Nitro-o-toluidine	ND	10								
7,12-Dimethylbenz(a)anthracene	ND	10								
Acetophenone	ND	10								
Aniline	ND	10								
Azobenzene	ND	10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305506
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805	Instrument ID: SVMS3	Method: SW8270C						
Benzidine	ND	10						
Benzyl alcohol	ND	10						
Bis(2-chloroethoxy)methane	ND	10						
Bis(2-chloroethyl)ether	ND	10						
Bis(2-chloroisopropyl)ether	ND	10						
Bis(2-ethylhexyl)phthalate	ND	10						
Butyl benzyl phthalate	ND	10						
Diethyl phthalate	ND	10						
Dimethyl phthalate	ND	10						
Di-n-butyl phthalate	ND	10						
Di-n-octyl phthalate	ND	10						
Dinoseb	ND	20						
Diphenylamine	ND	10						
Ethyl methanesulfonate	ND	10						
Hexachlorobenzene	ND	10						
Hexachlorobutadiene	ND	10						
Hexachlorocyclopentadiene	ND	10						
Hexachloroethane	ND	10						
Isophorone	ND	10						
Isosafrole	ND	10						
Methapyrilene	ND	10						
Methyl methanesulfonate	ND	10						
Nitrobenzene	ND	10						
N-Nitrosodiethylamine	ND	10						
N-Nitrosodimethylamine	ND	10						
N-Nitroso-di-n-butylamine	ND	10						
N-Nitrosodi-n-propylamine	ND	10						
N-Nitrosomethylethylamine	ND	10						
N-Nitrosomorpholine	ND	10						
N-Nitrosopiperidine	ND	10						
N-Nitrosopyrrolidine	ND	10						
o-Toluidine	ND	10						
p-Dimethylaminoazobenzene	ND	10						
Pentachlorobenzene	ND	10						
Pentachloroethane	ND	10						
Pentachloronitrobenzene	ND	20						
Pentachlorophenol	ND	20						
Phenacetin	ND	20						
Phenol	ND	10						
Pyridine	ND	10						
Safrole	ND	10						
<i>Surr: 2,4,6-Tribromophenol</i>	73.57	0	100	0	73.6	35-120	0	
<i>Surr: 2-Fluorobiphenyl</i>	30.74	0	50	0	61.5	38-105	0	
<i>Surr: 2-Fluorophenol</i>	46.59	0	100	0	46.6	12-89	0	
<i>Surr: 4-Terphenyl-d14</i>	40.18	0	50	0	80.4	42-125	0	
<i>Surr: Nitrobenzene-d5</i>	34	0	50	0	68	28-120	0	
<i>Surr: Phenol-d5</i>	43.93	0	100	0	43.9	10-62	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305506
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805 Instrument ID: SVMS3 Method: SW8270C

LCS		Sample ID: Ics-16805-16805			Units: µg/L		Analysis Date: 5/28/2013 11:51 PM			
Client ID:		Run ID: SVMS2_130528A			SeqNo: 617375		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	33.02	10	50	0	66	49.8-102	0			
1,4-Dichlorobenzene	37.78	10	50	0	75.6	44-92.8	0			
2,4-Dinitrotoluene	48.45	10	50	0	96.9	61.3-108	0			
2-Chlorophenol	43.64	10	50	0	87.3	33.3-89.9	0			
4-Chloro-3-methylphenol	45.03	20	50	0	90.1	39.3-96.6	0			
4-Nitrophenol	38.92	10	50	0	77.8	17.3-80.3	0			
Acenaphthene	39.27	0.10	50	0	78.5	40.1-123	0			
Acenaphthylene	39.16	0.10	50	0	78.3	59.3-126	0			
Anthracene	41.25	0.10	50	0	82.5	62.1-110	0			
Benzo(a)anthracene	41.54	0.10	50	0	83.1	62.3-118	0			
Benzo(a)pyrene	45.53	0.10	50	0	91.1	69.6-111	0			
Benzo(b)fluoranthene	41.92	0.11	50	0	83.8	60.1-94.5	0			
Benzo(g,h,i)perylene	40.81	0.10	50	0	81.6	66.8-138	0			
Benzo(k)fluoranthene	45.76	0.16	50	0	91.5	68.8-136	0			
Carbazole	54.36	10	50	0	109	70.8-115	0			
Chrysene	41.61	0.10	50	0	83.2	63.1-116	0			
Dibenzo(a,h)anthracene	44.21	0.10	50	0	88.4	47.1-168	0			
Fluoranthene	44	0.10	50	0	88	58.1-117	0			
Fluorene	40.68	0.10	50	0	81.4	59.5-120	0			
Indeno(1,2,3-cd)pyrene	45.14	0.10	50	0	90.3	56.3-141	0			
Naphthalene	34.42	0.10	50	0	68.8	46.6-104	0			
N-Nitrosodi-n-propylamine	58.06	10	50	0	116	54.8-121	0			
Pentachlorophenol	51.41	20	50	0	103	34.1-130	0			
Phenanthrene	42.02	0.10	50	0	84	63-118	0			
Phenol	28.08	10	50	0	56.2	17.5-68	0			
Pyrene	41.51	0.10	50	0	83	42-125	0			
Surr: 2,4,6-Tribromophenol	71.21	0	100	0	71.2	35-120	0			
Surr: 2-Fluorobiphenyl	33.67	0	50	0	67.3	38-105	0			
Surr: 2-Fluorophenol	73.28	0	100	0	73.3	12-89	0			
Surr: 4-Terphenyl-d14	39.17	0	50	0	78.3	42-125	0			
Surr: Nitrobenzene-d5	48.72	0	50	0	97.4	28-120	0			
Surr: Phenol-d5	51.65	0	100	0	51.6	10-62	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305506
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805 Instrument ID: SVMS3 Method: SW8270C

MS		Sample ID: 1305506-01c ms			Units: µg/L		Analysis Date: 5/29/2013 12:27 PM			
Client ID: SW-4-052213		Run ID: SVMS2_130528A			SeqNo: 617385		Prep Date: 5/23/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	33.86	10	50	0	67.7		0			
2,4-Dinitrotoluene	48.79	10	50	0	97.6		0			
2-Chlorophenol	54.91	10	50	0	110		0			
4-Chloro-3-methylphenol	52.94	20	50	0	106		0			
4-Nitrophenol	23.45	10	50	0	46.9		0			
Acenaphthene	41.59	0.10	50	0	83.2		0			
Acenaphthylene	41.52	0.10	50	0	83		0			
Anthracene	41.1	0.10	50	0	82.2		0			
Benzo(a)anthracene	41.74	0.10	50	0	83.5		0			
Benzo(a)pyrene	45.79	0.10	50	0	91.6		0			
Benzo(b)fluoranthene	41.42	0.11	50	0	82.8		0			
Benzo(g,h,i)perylene	41.68	0.10	50	0	83.4		0			
Benzo(k)fluoranthene	45.93	0.16	50	0	91.9		0			
Carbazole	52.43	10	50	0	105		0			
Chrysene	41.53	0.10	50	0	83.1		0			
Dibenzo(a,h)anthracene	43.96	0.10	50	0	87.9		0			
Dibenzofuran	46.46	10	50	0	92.9		0			
Fluoranthene	42.91	0.10	50	0	85.8		0			
Fluorene	41.98	0.10	50	0	84		0			
Indeno(1,2,3-cd)pyrene	44.13	0.10	50	0	88.3		0			
Naphthalene	40.98	0.10	50	0	82		0			
N-Nitrosodi-n-propylamine	55.58	10	50	0	111		0			
Pentachlorophenol	52.03	20	50	0	104		0			
Phenol	28.99	10	50	0	58		0			
Pyrene	40.87	0.10	50	0	81.7		0			
Surr: 2,4,6-Tribromophenol	73.67	0	100	0	73.7	35-120	0			
Surr: 2-Fluorobiphenyl	37.14	0	50	0	74.3	38-105	0			
Surr: 2-Fluorophenol	74.17	0	100	0	74.2	12-89	0			
Surr: 4-Terphenyl-d14	39.2	0	50	0	78.4	42-125	0			
Surr: Nitrobenzene-d5	58.26	0	50	0	117	28-120	0			
Surr: Phenol-d5	47.67	0	100	0	47.7	10-62	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305506
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16805 Instrument ID: SVMS3 Method: SW8270C

MSD		Sample ID: 1305506-01c msd				Units: µg/L		Analysis Date: 5/29/2013 01:03 AM		
Client ID: SW-4-052213		Run ID: SVMS2_130528A				SeqNo: 617376		Prep Date: 5/23/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	38.57	10	50	0	77.1		41.34	6.93		
1,4-Dichlorobenzene	46.29	10	50	0	92.6		33.86	31		
2,4-Dinitrotoluene	47.19	10	50	0	94.4		48.79	3.33		
2-Chlorophenol	66.34	10	50	0	133		54.91	18.9		
4-Chloro-3-methylphenol	50.78	20	50	0	102		52.94	4.17		
4-Nitrophenol	22.65	10	50	0	45.3		23.45	3.47		
Acenaphthene	40.65	0.10	50	0	81.3		41.59	2.29		
Acenaphthylene	40.01	0.10	50	0	80		41.52	3.7		
Anthracene	39.73	0.10	50	0	79.5		41.1	3.39		
Benzo(a)anthracene	51.63	0.10	50	0	103		41.74	21.2		
Benzo(a)pyrene	53.55	0.10	50	0	107		45.79	15.6		
Benzo(b)fluoranthene	43.41	0.11	50	0	86.8		41.42	4.69		
Benzo(g,h,i)perylene	41.13	0.10	50	0	82.3		41.68	1.33		
Benzo(k)fluoranthene	50.78	0.16	50	0	102		45.93	10		
Carbazole	46.99	10	50	0	94		52.43	10.9		
Chrysene	52.36	0.10	50	0	105		41.53	23.1		
Dibenzo(a,h)anthracene	47.18	0.10	50	0	94.4		43.96	7.07		
Dibenzofuran	44.84	10	50	0	89.7		46.46	3.55		
Fluoranthene	40.28	0.10	50	0	80.6		42.91	6.32		
Fluorene	40.66	0.10	50	0	81.3		41.98	3.19		
Indeno(1,2,3-cd)pyrene	43.13	0.10	50	0	86.3		44.13	2.29		
Naphthalene	38.31	0.10	50	0	76.6		40.98	6.73		
N-Nitrosodi-n-propylamine	50.39	10	50	0	101		55.58	9.8		
Pentachlorophenol	49.51	20	50	0	99		52.03	4.96		
Phenol	27.35	10	50	0	54.7		28.99	5.82		
Pyrene	35.64	0.10	50	0	71.3		40.87	13.7		
Surr: 2,4,6-Tribromophenol	68.78	0	100	0	68.8	35-120	73.67	6.87		
Surr: 2-Fluorobiphenyl	35.94	0	50	0	71.9	38-105	37.14	3.28		
Surr: 2-Fluorophenol	63.44	0	100	0	63.4	12-89	74.17	15.6		
Surr: 4-Terphenyl-d14	36.65	0	50	0	73.3	42-125	39.2	6.72		
Surr: Nitrobenzene-d5	50.55	0	50	0	101	28-120	58.26	14.2		
Surr: Phenol-d5	55.24	0	100	0	55.2	10-62	47.67	14.7		

The following samples were analyzed in this batch:

1305506-01C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305506
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99362** Instrument ID: **VMS1** Method: **SW8260**

MBLK		Sample ID: MBLK-R99362			Units: µg/L		Analysis Date: 5/29/2013 08:48 AM			
Client ID:		Run ID: VMS1_130529A			SeqNo: 616653		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305506
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99362	Instrument ID: VMS1	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	2.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	49.51	0	50	0	99	61-131	0
<i>Surr: Dibromofluoromethane</i>	51.03	0	50	0	102	87-126	0
<i>Surr: Toluene-d8</i>	51.14	0	50	0	102	84-111	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305506
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99362** Instrument ID: **VMS1** Method: **SW8260**

LCS		Sample ID: LCS-R99362			Units: µg/L		Analysis Date: 5/29/2013 08:18 AM			
Client ID:		Run ID: VMS1_130529A			SeqNo: 616652		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	58.19	5.0	50	0	116	48.4-140	0			
1,1-Dichloroethene	56.99	5.0	50	0	114	45.5-150	0			
1,2-Dichloroethane	56.09	5.0	50	0	112	46.5-141	0			
1,3-Dichlorobenzene	50.72	5.0	50	0	101	42.5-133	0			
1,4-Dichlorobenzene	50.1	5.0	50	0	100	38.9-136	0			
Benzene	54.85	5.0	50	0	110	50.7-134	0			
Carbon tetrachloride	62.79	5.0	50	0	126	45.5-143	0			
Chlorobenzene	52.87	5.0	50	0	106	45-133	0			
Chloroform	55.24	5.0	50	0	110	52.4-136	0			
cis-1,2-Dichloroethene	53.02	5.0	50	0	106	49.7-138	0			
Ethylbenzene	54.18	5.0	50	0	108	37.8-145	0			
m,p-Xylene	113.2	5.0	100	0	113	25.1-163	0			
Styrene	59.66	5.0	50	0	119	26.3-172	0			
Tetrachloroethene	50.99	5.0	50	0	102	37.3-139	0			
Toluene	56.93	5.0	50	0	114	44-135	0			
Trichloroethene	55.14	5.0	50	0	110	46.9-134	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.15	0	50	0	96.3	61-131	0			
<i>Surr: Dibromofluoromethane</i>	50.73	0	50	0	101	87-126	0			
<i>Surr: Toluene-d8</i>	52.3	0	50	0	105	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305506
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99362** Instrument ID: **VMS1** Method: **SW8260**

MS		Sample ID: 1305506-01A MS			Units: µg/L		Analysis Date: 5/29/2013 11:18 AM			
Client ID: SW-4-052213		Run ID: VMS1_130529A			SeqNo: 616658		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.91	5.0	50	0	97.8	47.4-141	0			
1,1-Dichloroethene	49.09	5.0	50	0	98.2	56.3-140	0			
1,2-Dichloroethane	48.56	5.0	50	0	97.1	50.1-139	0			
1,3-Dichlorobenzene	45.92	5.0	50	0	91.8	53-127	0			
1,4-Dichlorobenzene	44.43	5.0	50	0	88.9	53.4-129	0			
Benzene	47.5	5.0	50	0	95	52.8-136	0			
Carbon tetrachloride	51.26	5.0	50	0	103	48.1-141	0			
Chlorobenzene	45.53	5.0	50	0	91.1	52.4-132	0			
Chloroform	48.85	5.0	50	0	97.7	52.9-136	0			
cis-1,2-Dichloroethene	47.24	5.0	50	0	94.5	63.5-128	0			
Ethylbenzene	47.11	5.0	50	0	94.2	46.5-146	0			
m,p-Xylene	98.54	5.0	100	0	98.5	38.2-167	0			
Styrene	49.82	5.0	50	0	99.6	20.9-184	0			
Tetrachloroethene	44.3	5.0	50	0	88.6	55.2-134	0			
Toluene	50.5	5.0	50	0	101	45.1-138	0			
Trichloroethene	47.32	5.0	50	0	94.6	52.8-133	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.71	0	50	0	99.4	61-131	0			
<i>Surr: Dibromofluoromethane</i>	50.93	0	50	0	102	87-126	0			
<i>Surr: Toluene-d8</i>	52.45	0	50	0	105	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305506
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99362** Instrument ID: **VMS1** Method: **SW8260**

MSD		Sample ID: 1305506-01A MSD				Units: µg/L		Analysis Date: 5/29/2013 11:48 AM		
Client ID: SW-4-052213		Run ID: VMS1_130529A				SeqNo: 616659		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	59.05	5.0	50	0	118	47.4-141	48.91	18.8	20	
1,1-Dichloroethene	58.16	5.0	50	0	116	56.3-140	49.09	16.9	20	
1,2-Dichloroethane	58.09	5.0	50	0	116	50.1-139	48.56	17.9	20	
1,3-Dichlorobenzene	51.66	5.0	50	0	103	53-127	45.92	11.8	20	
1,4-Dichlorobenzene	50.1	5.0	50	0	100	53.4-129	44.43	12	20	
Benzene	56.32	5.0	50	0	113	52.8-136	47.5	17	20	
Carbon tetrachloride	61.13	5.0	50	0	122	48.1-141	51.26	17.6	20	
Chlorobenzene	53.14	5.0	50	0	106	52.4-132	45.53	15.4	20	
Chloroform	58.48	5.0	50	0	117	52.9-136	48.85	17.9	20	
cis-1,2-Dichloroethene	56.32	5.0	50	0	113	63.5-128	47.24	17.5	20	
Ethylbenzene	53.39	5.0	50	0	107	46.5-146	47.11	12.5	20	
m,p-Xylene	111.8	5.0	100	0	112	38.2-167	98.54	12.6	20	
Styrene	58.74	5.0	50	0	117	20.9-184	49.82	16.4	20	
Tetrachloroethene	49.88	5.0	50	0	99.8	55.2-134	44.3	11.8	20	
Toluene	58.65	5.0	50	0	117	45.1-138	50.5	14.9	20	
Trichloroethene	55.22	5.0	50	0	110	52.8-133	47.32	15.4	20	
<i>Surr: 4-Bromofluorobenzene</i>	50.05	0	50	0	100	61-131	49.71	0.682		
<i>Surr: Dibromofluoromethane</i>	51.63	0	50	0	103	87-126	50.93	1.37		
<i>Surr: Toluene-d8</i>	52.12	0	50	0	104	84-111	52.45	0.631		

The following samples were analyzed in this batch:

1305506-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 12-Jun-13

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305506

Analytical Comments

Method	Type:	SampID	SeqNo	Analysis	Comments
Batch	<u>16890</u>				
	Analysis	1305506-01DMS	618598	PCBs	TCMX could not be calculated due to sample matrix interference.
	Analysis	1305506-01DMSD	618599	PCBs	TCMX could not be calculated due to sample matrix interference.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
WorkOrder: 1305506

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/L	
mg/L	

Sample Receipt Checklist

Client Name: AECOM-CINCINNATI

Date/Time Received: 22-May-13 00:00

Work Order: 1305506

Received by: CEG

Checklist completed by: Chris Gibson 23-May-13
eSignature Date

Reviewed by: Chris Gibson 06-Jun-13
eSignature Date

Matrices: water

Carrier name: Client

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 5.7

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



ALS Laboratory Group
 10450 Stanciliff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530 5656
 Fax. +1 281 530 5887

Chain of Custody Form

ALS Laboratory Group
 3352 128th Ave.
 Holland, MI 49424-9263
 Tel: +1 616 399 6070
 Fax: +1 616 399 6185

Page 1 of 1

1305506

Customer Information				ALS Project Manager:				Parameter/Method Request for Analysis															
Purchase Order	46496 ACM	Project Name	Whirlpool- Green Springs, OH- SWP	A	B	C	D	E	F	G	H	I	J	Hold	Project Information								
Work Order		Project Number	60298534												VOCs - 8260								
Company Name	AECOM	Bill To Company	AECOM												Metals - 6010								
Send Report To	Elaine Nomina	Invoice Attn	Ron Roelker												SVOCs - 8270								
Address	4219 Malsbury Road	Address	4219 Malsbury Road												PCBs - 8082								
City/State/Zip	Cincinnati, OH 45242	City/State/Zip	Cincinnati, OH 45242												Pesticides - 8081								
Phone	(513) 878-8853	Phone	(513) 878-8844												Herbicides - 9151								
Fax	(513) 878-8848	Fax	(513) 878-8848												Hardness - Sm 2340								
e-Mail Address	elaine.nomina@aecom.com	e-Mail Address	ron.roelker@aecom.com																				
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J							
1	SW-4-052213	5-22-13	0810	Water	-	4		X	X	X	X	X											
2					HCL	2																	
3					HNO3	1		X					X										
4	SW-4-MS-052213				-	4			X	X	X	X											
5					HCL	2		X															
6					HNO3	1		X					X										
7	SW-4-MSD-052213				-	4			X	X	X	X											
8					HCL	2		X															
9					HNO3	1		X					X										
10																							

Sampler(s) Please Print & Sign

Relinquished by: *Tom O'Neil* Date: 5-22-13 Time: 1835

Relinquished by: *[Signature]* Date: 5/22/13 Time: 18:35

Logged by (Laboratory): *[Signature]* Date: _____ Time: _____

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NH₂SO₄ 7-Other 8-4°C 9-5035

QC Package: (Check One Box Below)
 Level II Std QC
 Level III Std QC/Rev Data
 Level IV SW846/CLP
 Other/EDD

QC Package: (Check One Box Below)
 TRRP Checklist
 TRRP Level I
 TRRP Level II
 TRRP Level III
 TRRP Level IV

Results Due Date: _____

Notes: _____

Required Turnaround Time: (Check Box)
 Std 10 WK Days
 5 WK Days
 Other 2 WK Days
 24 Hour

Shipper Method: _____

Received by: _____
 Received by (Laboratory): _____
 Checked by (Laboratory): _____

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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23-Aug-2013

Elaine Nomina
AECOM
4219 Malsbury Road
Cincinnati, OH 45242

Tel: (513) 878-6853
Fax: (513) 878-6848

Re: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: **1306670**

Dear Elaine,

ALS Environmental received 4 samples on 25-Jun-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 43.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

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Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1306670

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1306670-03	SW-9-062413	Water		6/24/2013	6/25/2013	<input type="checkbox"/>
1306670-03	SW-9-062413	Water		6/24/2013	6/25/2013	<input type="checkbox"/>

ALS Environmental

Date: 23-Aug-13

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1306670

Case Narrative

The analyses requested were analyzed according to Ohio Voluntary Action Program requirements.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The herbicides analyses were performed by Microbac Laboratories, Marietta, OH.

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: SW-9-062413

Lab ID: 1306670-03

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANOCHLORINE PESTICIDES			SW8081A		Prep Date: 6/25/2013	Analyst: SAD
4,4'-DDD	ND		0.040	µg/L	1	6/26/2013
4,4'-DDE	ND		0.040	µg/L	1	6/26/2013
4,4'-DDT	ND		0.040	µg/L	1	6/26/2013
Aldrin	ND		0.020	µg/L	1	6/26/2013
alpha-BHC	ND		0.020	µg/L	1	6/26/2013
beta-BHC	ND		0.020	µg/L	1	6/26/2013
Chlordane	ND		0.99	µg/L	1	6/26/2013
delta-BHC	ND		0.020	µg/L	1	6/26/2013
Dieldrin	ND		0.040	µg/L	1	6/26/2013
Endosulfan I	ND		0.020	µg/L	1	6/26/2013
Endosulfan II	ND		0.040	µg/L	1	6/26/2013
Endosulfan sulfate	ND		0.040	µg/L	1	6/26/2013
Endrin	ND		0.040	µg/L	1	6/26/2013
Endrin aldehyde	ND		0.040	µg/L	1	6/26/2013
Endrin ketone	ND		0.040	µg/L	1	6/26/2013
gamma-BHC (Lindane)	ND		0.020	µg/L	1	6/26/2013
Heptachlor	ND		0.020	µg/L	1	6/26/2013
Heptachlor epoxide	ND		0.020	µg/L	1	6/26/2013
Methoxychlor	ND		0.20	µg/L	1	6/26/2013
Toxaphene	ND		5.0	µg/L	1	6/26/2013
<i>Surr: Decachlorobiphenyl</i>	75.0		11-146	%REC	1	6/26/2013
<i>Surr: Tetrachloro-m-xylene</i>	94.6		35-132	%REC	1	6/26/2013
PCBS			SW8082		Prep Date: 6/25/2013	Analyst: SAD
Aroclor 1016	ND		0.50	µg/L	1	6/27/2013
Aroclor 1221	ND		0.50	µg/L	1	6/27/2013
Aroclor 1232	ND		0.50	µg/L	1	6/27/2013
Aroclor 1242	ND		0.50	µg/L	1	6/27/2013
Aroclor 1248	ND		0.50	µg/L	1	6/27/2013
Aroclor 1254	ND		0.50	µg/L	1	6/27/2013
Aroclor 1260	ND		0.50	µg/L	1	6/27/2013
<i>Surr: Decachlorobiphenyl</i>	76.2		37-108	%REC	1	6/27/2013
<i>Surr: Tetrachloro-m-xylene</i>	102		9-136	%REC	1	6/27/2013
MERCURY BY CVAA			SW7470A		Prep Date: 6/26/2013	Analyst: SLW
Mercury	ND		0.50	µg/L	1	6/27/2013 02:53 PM
METALS BY ICP			SW6010B		Prep Date: 6/26/2013	Analyst: VAW
Aluminum	ND		0.20	mg/L	1	6/26/2013 05:39 PM
Antimony	ND		0.0060	mg/L	1	6/26/2013 05:39 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: SW-9-062413

Lab ID: 1306670-03

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Arsenic	ND		0.010	mg/L	1	6/26/2013 05:39 PM
Barium	ND		0.10	mg/L	1	6/26/2013 05:39 PM
Beryllium	ND		0.0040	mg/L	1	6/26/2013 05:39 PM
Cadmium	ND		0.0050	mg/L	1	6/26/2013 05:39 PM
Calcium	120		0.20	mg/L	1	6/26/2013 05:39 PM
Chromium	ND		0.020	mg/L	1	6/26/2013 05:39 PM
Cobalt	ND		0.050	mg/L	1	6/26/2013 05:39 PM
Copper	ND		0.025	mg/L	1	6/26/2013 05:39 PM
Iron	0.40		0.20	mg/L	1	6/26/2013 05:39 PM
Lead	ND		0.015	mg/L	1	6/26/2013 05:39 PM
Magnesium	27		0.20	mg/L	1	6/26/2013 05:39 PM
Manganese	0.19		0.050	mg/L	1	6/26/2013 05:39 PM
Nickel	ND		0.040	mg/L	1	6/26/2013 05:39 PM
Potassium	3.3		0.20	mg/L	1	6/26/2013 05:39 PM
Selenium	ND		0.030	mg/L	1	6/26/2013 05:39 PM
Silver	ND		0.010	mg/L	1	6/26/2013 05:39 PM
Sodium	160		0.20	mg/L	1	6/26/2013 05:39 PM
Thallium	ND		0.0020	mg/L	1	6/26/2013 05:39 PM
Vanadium	ND		0.050	mg/L	1	6/26/2013 05:39 PM
Zinc	ND		0.050	mg/L	1	6/26/2013 05:39 PM

HERBICIDES

SW8151

Prep Date: 6/26/2013

Analyst: Microb

2,4,5-T	ND		0.20	µg/L	1	7/2/2013 03:12 AM
2,4,5-TP (Silvex)	ND		0.20	µg/L	1	7/2/2013 03:12 AM
2,4-D	ND		2.0	µg/L	1	7/2/2013 03:12 AM
2,4-DB	ND		2.0	µg/L	1	7/2/2013 03:12 AM
Dalapon	ND		5.0	µg/L	1	7/2/2013 03:12 AM
Dicamba	ND		0.20	µg/L	1	7/2/2013 03:12 AM
Dichlorprop	ND		2.0	µg/L	1	7/2/2013 03:12 AM
Dinoseb	ND		1.0	µg/L	1	7/2/2013 03:12 AM
MCPA	ND		250	µg/L	1	7/2/2013 03:12 AM
MCPP	ND		250	µg/L	1	7/2/2013 03:12 AM
Pentachlorophenol	ND		0.20	µg/L	1	7/2/2013 03:12 AM
Surr: 2,4-Dichlorophenylacetic acid	134		20-144	%REC	1	7/2/2013 03:12 AM

SEMI-VOLATILE ORGANIC COMPOUNDS

SW8270C

Prep Date: 6/27/2013

Analyst: JCL

1,2,4,5-Tetrachlorobenzene	ND		9.8	µg/L	1	6/29/2013 01:34 AM
1,2,4-Trichlorobenzene	ND		9.8	µg/L	1	6/29/2013 01:34 AM
1,2-Dichlorobenzene	ND		9.8	µg/L	1	6/29/2013 01:34 AM
1,3-Dichlorobenzene	ND		9.8	µg/L	1	6/29/2013 01:34 AM
1,3-Dinitrobenzene	ND		9.8	µg/L	1	6/29/2013 01:34 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: SW-9-062413

Lab ID: 1306670-03

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dichlorobenzene	ND		9.8	µg/L	1	6/29/2013 01:34 AM
1-Methylnaphthalene	ND		0.098	µg/L	1	6/28/2013 11:10 PM
1-Naphthylamine	ND		9.8	µg/L	1	6/29/2013 01:34 AM
2,3,4,6-Tetrachlorophenol	ND		9.8	µg/L	1	6/29/2013 01:34 AM
2,4,5-Trichlorophenol	ND		9.8	µg/L	1	6/29/2013 01:34 AM
2,4,6-Trichlorophenol	ND		9.8	µg/L	1	6/29/2013 01:34 AM
2,4-Dichlorophenol	ND		9.8	µg/L	1	6/29/2013 01:34 AM
2,4-Dimethylphenol	ND		9.8	µg/L	1	6/29/2013 01:34 AM
2,4-Dinitrophenol	ND		9.8	µg/L	1	6/29/2013 01:34 AM
2,4-Dinitrotoluene	ND		9.8	µg/L	1	6/29/2013 01:34 AM
2,6-Dichlorophenol	ND		9.8	µg/L	1	6/29/2013 01:34 AM
2,6-Dinitrotoluene	ND		9.8	µg/L	1	6/29/2013 01:34 AM
2-Acetylaminofluorene	ND		9.8	µg/L	1	6/29/2013 01:34 AM
2-Chloronaphthalene	ND		9.8	µg/L	1	6/29/2013 01:34 AM
2-Chlorophenol	ND		9.8	µg/L	1	6/29/2013 01:34 AM
2-Methylnaphthalene	ND		0.098	µg/L	1	6/28/2013 11:10 PM
2-Methylphenol	ND		9.8	µg/L	1	6/29/2013 01:34 AM
2-Naphthylamine	ND		20	µg/L	1	6/29/2013 01:34 AM
2-Nitroaniline	ND		9.8	µg/L	1	6/29/2013 01:34 AM
2-Nitrophenol	ND		9.8	µg/L	1	6/29/2013 01:34 AM
2-Picoline	ND		20	µg/L	1	6/29/2013 01:34 AM
3&4-Methylphenol	ND		9.8	µg/L	1	6/29/2013 01:34 AM
3,3'-Dichlorobenzidine	ND		9.8	µg/L	1	6/29/2013 01:34 AM
3-Methylcholanthrene	ND		20	µg/L	1	6/29/2013 01:34 AM
3-Nitroaniline	ND		20	µg/L	1	6/29/2013 01:34 AM
4,6-Dinitro-2-methylphenol	ND		20	µg/L	1	6/29/2013 01:34 AM
4-Aminobiphenyl	ND		9.8	µg/L	1	6/29/2013 01:34 AM
4-Bromophenyl phenyl ether	ND		20	µg/L	1	6/29/2013 01:34 AM
4-Chloro-3-methylphenol	ND		20	µg/L	1	6/29/2013 01:34 AM
4-Chloroaniline	ND		9.8	µg/L	1	6/29/2013 01:34 AM
4-Chlorophenyl phenyl ether	ND		20	µg/L	1	6/29/2013 01:34 AM
4-Nitroaniline	ND		20	µg/L	1	6/29/2013 01:34 AM
4-Nitrophenol	ND		9.8	µg/L	1	6/29/2013 01:34 AM
4-Nitroquinoline 1-oxide	ND		9.8	µg/L	1	6/29/2013 01:34 AM
5-Nitro-o-toluidine	ND		9.8	µg/L	1	6/29/2013 01:34 AM
7,12-Dimethylbenz(a)anthracene	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Acenaphthene	ND		0.098	µg/L	1	6/28/2013 11:10 PM
Acenaphthylene	ND		0.098	µg/L	1	6/28/2013 11:10 PM
Acetophenone	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Aniline	ND		9.8	µg/L	1	6/29/2013 01:34 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: SW-9-062413

Lab ID: 1306670-03

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	ND		0.098	µg/L	1	6/28/2013 11:10 PM
Azobenzene	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Benzidine	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Benzo(a)anthracene	ND		0.098	µg/L	1	6/28/2013 11:10 PM
Benzo(a)pyrene	ND		0.098	µg/L	1	6/28/2013 11:10 PM
Benzo(b)fluoranthene	ND		0.11	µg/L	1	6/28/2013 11:10 PM
Benzo(g,h,i)perylene	ND		0.098	µg/L	1	6/28/2013 11:10 PM
Benzo(k)fluoranthene	ND		0.16	µg/L	1	6/28/2013 11:10 PM
Benzyl alcohol	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Bis(2-chloroethoxy)methane	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Bis(2-chloroethyl)ether	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Bis(2-chloroisopropyl)ether	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Bis(2-ethylhexyl)phthalate	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Butyl benzyl phthalate	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Carbazole	ND		9.8	µg/L	1	6/28/2013 11:10 PM
Chrysene	ND		0.098	µg/L	1	6/28/2013 11:10 PM
Dibenzo(a,h)anthracene	ND		0.098	µg/L	1	6/28/2013 11:10 PM
Dibenzofuran	ND		9.8	µg/L	1	6/28/2013 11:10 PM
Diethyl phthalate	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Dimethyl phthalate	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Di-n-butyl phthalate	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Di-n-octyl phthalate	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Dinoseb	ND		20	µg/L	1	6/29/2013 01:34 AM
Diphenylamine	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Ethyl methanesulfonate	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Fluoranthene	ND		0.098	µg/L	1	6/28/2013 11:10 PM
Fluorene	ND		0.098	µg/L	1	6/28/2013 11:10 PM
Hexachlorobenzene	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Hexachlorobutadiene	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Hexachlorocyclopentadiene	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Hexachloroethane	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Indeno(1,2,3-cd)pyrene	ND		0.098	µg/L	1	6/28/2013 11:10 PM
Isophorone	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Isosafrole	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Methapyrilene	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Methyl methanesulfonate	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Naphthalene	ND		0.098	µg/L	1	6/28/2013 11:10 PM
Nitrobenzene	ND		9.8	µg/L	1	6/29/2013 01:34 AM
N-Nitrosodiethylamine	ND		9.8	µg/L	1	6/29/2013 01:34 AM
N-Nitrosodimethylamine	ND		9.8	µg/L	1	6/29/2013 01:34 AM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: SW-9-062413

Lab ID: 1306670-03

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
N-Nitroso-di-n-butylamine	ND		9.8	µg/L	1	6/29/2013 01:34 AM
N-Nitrosodi-n-propylamine	ND		9.8	µg/L	1	6/29/2013 01:34 AM
N-Nitrosomethylethylamine	ND		9.8	µg/L	1	6/29/2013 01:34 AM
N-Nitrosomorpholine	ND		9.8	µg/L	1	6/29/2013 01:34 AM
N-Nitrosopiperidine	ND		9.8	µg/L	1	6/29/2013 01:34 AM
N-Nitrosopyrrolidine	ND		9.8	µg/L	1	6/29/2013 01:34 AM
o-Toluidine	ND		9.8	µg/L	1	6/29/2013 01:34 AM
p-Dimethylaminoazobenzene	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Pentachlorobenzene	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Pentachloroethane	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Pentachloronitrobenzene	ND		20	µg/L	1	6/29/2013 01:34 AM
Pentachlorophenol	ND		20	µg/L	1	6/29/2013 01:34 AM
Phenacetin	ND		20	µg/L	1	6/29/2013 01:34 AM
Phenanthrene	ND		0.098	µg/L	1	6/28/2013 11:10 PM
Phenol	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Pyrene	ND		0.098	µg/L	1	6/28/2013 11:10 PM
Pyridine	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Safrole	ND		9.8	µg/L	1	6/29/2013 01:34 AM
Surr: 2,4,6-Tribromophenol	89.9		35-120	%REC	1	6/29/2013 01:34 AM
Surr: 2-Fluorobiphenyl	72.4		38-105	%REC	1	6/29/2013 01:34 AM
Surr: 2-Fluorophenol	36.5		12-89	%REC	1	6/29/2013 01:34 AM
Surr: 4-Terphenyl-d14	86.1		42-125	%REC	1	6/29/2013 01:34 AM
Surr: Nitrobenzene-d5	73.8		28-120	%REC	1	6/29/2013 01:34 AM
Surr: Phenol-d5	31.0		10-62	%REC	1	6/29/2013 01:34 AM

VOLATILE ORGANIC COMPOUNDS

SW8260

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	7/1/2013 07:06 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	7/1/2013 07:06 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	7/1/2013 07:06 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	7/1/2013 07:06 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	7/1/2013 07:06 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	7/1/2013 07:06 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	7/1/2013 07:06 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	7/1/2013 07:06 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	7/1/2013 07:06 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: SW-9-062413

Lab ID: 1306670-03

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-Dichloropropane	ND		5.0	µg/L	1	7/1/2013 07:06 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	7/1/2013 07:06 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	7/1/2013 07:06 PM
2-Butanone	ND		5.0	µg/L	1	7/1/2013 07:06 PM
2-Chlorotoluene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
2-Hexanone	ND		5.0	µg/L	1	7/1/2013 07:06 PM
4-Chlorotoluene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Acetone	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Benzene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Bromobenzene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Bromochloromethane	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Bromodichloromethane	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Bromoform	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Bromomethane	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Carbon disulfide	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Carbon tetrachloride	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Chlorobenzene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Chloroethane	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Chloroform	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Chloromethane	ND		5.0	µg/L	1	7/1/2013 07:06 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Dibromochloromethane	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Dibromomethane	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Ethylbenzene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Isopropylbenzene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
m,p-Xylene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Methylene chloride	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Naphthalene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
n-Butylbenzene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
n-Propylbenzene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
o-Xylene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	7/1/2013 07:06 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1306670

Sample ID: SW-9-062413

Lab ID: 1306670-03

Collection Date: 6/24/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
sec-Butylbenzene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Styrene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
tert-Butylbenzene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Tetrachloroethene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Toluene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Trichloroethene	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	7/1/2013 07:06 PM
Vinyl chloride	ND		2.0	µg/L	1	7/1/2013 07:06 PM
Xylenes, Total	ND		5.0	µg/L	1	7/1/2013 07:06 PM
<i>Surr: 4-Bromofluorobenzene</i>	98.8		61-131	%REC	1	7/1/2013 07:06 PM
<i>Surr: Dibromofluoromethane</i>	98.5		87-126	%REC	1	7/1/2013 07:06 PM
<i>Surr: Toluene-d8</i>	97.5		84-111	%REC	1	7/1/2013 07:06 PM

Note:

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17369** Instrument ID **GC9** Method: **SW8082**

MBLK		Sample ID MBLK-17369-17369			Units: µg/L		Analysis Date: 6/27/2013			
Client ID:		Run ID: GC9_130627C			SeqNo: 637459		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.50								
Aroclor 1221	ND	0.50								
Aroclor 1232	ND	0.50								
Aroclor 1242	ND	0.50								
Aroclor 1248	ND	0.50								
Aroclor 1254	ND	0.50								
Aroclor 1260	ND	0.50								
<i>Surr: Decachlorobiphenyl</i>	0.339	0	0.5	0	67.8	37-108	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.5	0	0.5	0	100	9-136	0			

LCS		Sample ID LCS-17369-17369			Units: µg/L		Analysis Date: 6/27/2013			
Client ID:		Run ID: GC9_130627C			SeqNo: 637460		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	9.402	0.50	10	0	94	61-122	0			
<i>Surr: Decachlorobiphenyl</i>	0.343	0	0.5	0	68.6	37-108	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.501	0	0.5	0	100	9-136	0			

MS		Sample ID 1306628-06GMS			Units: µg/L		Analysis Date: 6/27/2013			
Client ID:		Run ID: GC9_130627C			SeqNo: 637466		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	10.8	0.52	10.36	0	104		0			
<i>Surr: Decachlorobiphenyl</i>	0.4052	0	0.5181	0	78.2		0			
<i>Surr: Tetrachloro-m-xylene</i>	0.5534	0	0.5181	0	107		0			

MSD		Sample ID 1306628-06GMSD			Units: µg/L		Analysis Date: 6/27/2013			
Client ID:		Run ID: GC9_130627C			SeqNo: 637467		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	10.52	0.51	10.1	0	104		10.8	2.66		
<i>Surr: Decachlorobiphenyl</i>	0.4172	0	0.5051	0	82.6		0.4052	2.92		
<i>Surr: Tetrachloro-m-xylene</i>	0.5505	0	0.5051	0	109		0.5534	0.519		

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17376 Instrument ID GC9 Method: SW8081A

MBLK		Sample ID MBLK-17376-17376			Units: µg/L		Analysis Date: 6/26/2013			
Client ID:		Run ID: GC9_130626B			SeqNo: 636702		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDD	ND	0.040								
4,4'-DDE	ND	0.040								
4,4'-DDT	ND	0.040								
Aldrin	ND	0.020								
alpha-BHC	ND	0.020								
beta-BHC	ND	0.020								
Chlordane	ND	1.0								
delta-BHC	ND	0.020								
Dieldrin	ND	0.040								
Endosulfan I	ND	0.020								
Endosulfan II	ND	0.040								
Endosulfan sulfate	ND	0.040								
Endrin	ND	0.040								
Endrin aldehyde	ND	0.040								
Endrin ketone	ND	0.040								
gamma-BHC (Lindane)	ND	0.020								
Heptachlor	ND	0.020								
Heptachlor epoxide	ND	0.020								
Methoxychlor	ND	0.20								
Toxaphene	ND	5.0								
Surr: Decachlorobiphenyl	0.343	0	0.5	0	68.6	11-146	0			
Surr: Tetrachloro-m-xylene	0.467	0	0.5	0	93.4	35-132	0			

LCS		Sample ID LCS-17376-17376			Units: µg/L		Analysis Date: 6/26/2013			
Client ID:		Run ID: GC9_130626B			SeqNo: 636703		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDT	0.181	0.040	0.2	0	90.5	25-163	0			
Aldrin	0.099	0.020	0.1	0	99	29-148	0			
Dieldrin	0.221	0.040	0.2	0	110	36-148	0			
Endrin	0.253	0.040	0.2	0	126	27-168	0			
gamma-BHC (Lindane)	0.076	0.020	0.1	0	76	20-139	0			
Heptachlor	0.11	0.020	0.1	0	110	30-149	0			
Surr: Decachlorobiphenyl	0.489	0	0.5	0	97.8	51-130	0			
Surr: Tetrachloro-m-xylene	0.546	0	0.5	0	109	44-129	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17376 Instrument ID GC9 Method: SW8081A

MS		Sample ID 1306628-06FMS			Units: µg/L		Analysis Date: 6/26/2013			
Client ID:		Run ID: GC9_130626B			SeqNo: 636709		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDT	0.1421	0.041	0.203	0	70	25-163	0			
Aldrin	0.07919	0.020	0.1015	0	78	29-148	0			
Dieldrin	0.1817	0.041	0.203	0	89.5	36-148	0			
Endrin	0.2173	0.041	0.203	0	107	27-168	0			
gamma-BHC (Lindane)	0.06802	0.020	0.1015	0	67	20-139	0			
Heptachlor	0.09036	0.020	0.1015	0	89	30-149	0			
Surr: Decachlorobiphenyl	0.2985	0	0.5076	0	58.8	51-130	0			
Surr: Tetrachloro-m-xylene	0.4274	0	0.5076	0	84.2	44-129	0			

MSD		Sample ID 1306628-06FMSD			Units: µg/L		Analysis Date: 6/26/2013			
Client ID:		Run ID: GC9_130626B			SeqNo: 636710		Prep Date: 6/25/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4'-DDT	0.126	0.042	0.2083	0	60.5	25-163	0.1421	12		
Aldrin	0.07083	0.021	0.1042	0	68	29-148	0.07919	11.1		
Dieldrin	0.1635	0.042	0.2083	0	78.5	36-148	0.1817	10.5		
Endrin	0.1865	0.042	0.2083	0	89.5	27-168	0.2173	15.3		
gamma-BHC (Lindane)	0.05729	0.021	0.1042	0	55	20-139	0.06802	17.1		
Heptachlor	0.07812	0.021	0.1042	0	75	30-149	0.09036	14.5		
Surr: Decachlorobiphenyl	0.2812	0	0.5208	0	54	51-130	0.2985	5.94		
Surr: Tetrachloro-m-xylene	0.3812	0	0.5208	0	73.2	44-129	0.4274	11.4		

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17406** Instrument ID **HG1** Method: **SW7470A**

MBLK	Sample ID	MBLK-17406-17406		Units:	µg/L		Analysis Date: 6/27/2013 02:28 PM				
Client ID:	Run ID:	HG1_130627A		SeqNo:	637118		Prep Date:	6/26/2013		DF:	1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury ND 0.50

LCS	Sample ID	LCS-17406-17406		Units:	µg/L		Analysis Date: 6/27/2013 02:24 PM				
Client ID:	Run ID:	HG1_130627A		SeqNo:	637116		Prep Date:	6/26/2013		DF:	1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 4.97 0.50 5 0 99.4 80-120 0

LCSD	Sample ID	LCSD-17406-17406		Units:	µg/L		Analysis Date: 6/27/2013 02:26 PM				
Client ID:	Run ID:	HG1_130627A		SeqNo:	637117		Prep Date:	6/26/2013		DF:	1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 4.9 0.50 5 0 98 80-120 4.97 1.42 20

MS	Sample ID	1306628-06CMS		Units:	µg/L		Analysis Date: 6/27/2013 02:45 PM				
Client ID:	Run ID:	HG1_130627A		SeqNo:	637124		Prep Date:	6/26/2013		DF:	1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 5.17 0.50 5 -0.09 105 75-125 0

MSD	Sample ID	1306628-06CMSD		Units:	µg/L		Analysis Date: 6/27/2013 02:47 PM				
Client ID:	Run ID:	HG1_130627A		SeqNo:	637125		Prep Date:	6/26/2013		DF:	1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 4.97 0.50 5 -0.09 101 75-125 5.17 3.94 20

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17407** Instrument ID **HG1** Method: **SW7470A** (Dissolve)

MBLK		Sample ID MBLK-17407-17407			Units: µg/L		Analysis Date: 6/27/2013 03:40 PM			
Client ID:		Run ID: HG1_130627B			SeqNo: 637201		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.50								

LCS		Sample ID LCS-17407-17407			Units: µg/L		Analysis Date: 6/27/2013 03:36 PM			
Client ID:		Run ID: HG1_130627B			SeqNo: 637199		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.88	0.50	5	0	97.6	80-120	0			

LCSD		Sample ID LCSD-17407-17407			Units: µg/L		Analysis Date: 6/27/2013 03:38 PM			
Client ID:		Run ID: HG1_130627B			SeqNo: 637200		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.87	0.50	5	0	97.4	80-120	4.88	0.205	20	

MS		Sample ID 1306628-06DMS			Units: µg/L		Analysis Date: 6/27/2013 03:57 PM			
Client ID:		Run ID: HG1_130627B			SeqNo: 637207		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	5.03	0.50	5	-0.05	102	75-125	0			

MSD		Sample ID 1306628-06DMSD			Units: µg/L		Analysis Date: 6/27/2013 03:59 PM			
Client ID:		Run ID: HG1_130627B			SeqNo: 637208		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	4.98	0.50	5	-0.05	101	75-125	5.03	0.999	20	

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17398** Instrument ID **ICP3** Method: **SW6010B (Dissolve)**

MBLK	Sample ID	mbik-17398-17398		Units: mg/L		Analysis Date: 6/26/2013 03:59 PM				
Client ID:	Run ID:	ICP3_130626B		SeqNo: 636446		Prep Date: 6/26/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.20								
Antimony	ND	0.0060								
Arsenic	ND	0.010								
Barium	ND	0.10								
Beryllium	ND	0.0040								
Cadmium	ND	0.0050								
Calcium	ND	0.20								
Chromium	ND	0.020								
Cobalt	ND	0.050								
Copper	ND	0.025								
Iron	ND	0.20								
Lead	ND	0.015								
Magnesium	ND	0.20								
Manganese	ND	0.050								
Nickel	ND	0.040								
Potassium	ND	0.20								
Selenium	ND	0.030								
Silver	ND	0.010								
Sodium	ND	0.20								
Thallium	ND	0.0050								
Vanadium	ND	0.050								
Zinc	ND	0.050								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17398** Instrument ID **ICP3** Method: **SW6010B** (Dissolve)

LCS		Sample ID ics-17398-17398			Units: mg/L		Analysis Date: 6/26/2013 04:07 PM			
Client ID:		Run ID: ICP3_130626B			SeqNo: 636447		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.112	0.20	1.1	0	101	80-120	0			
Antimony	1.079	0.0060	1.1	0	98.1	80-120	0			
Arsenic	1.115	0.010	1.1	0	101	80-120	0			
Barium	1.162	0.10	1.1	0	106	80-120	0			
Beryllium	1.103	0.0040	1.1	0	100	80-120	0			
Cadmium	1.147	0.0050	1.1	0	104	80-120	0			
Calcium	1.069	0.20	1.1	0	97.1	80-120	0			
Chromium	1.134	0.020	1.1	0	103	80-120	0			
Cobalt	1.094	0.050	1.1	0	99.4	80-120	0			
Copper	1.085	0.025	1.1	0	98.6	80-120	0			
Iron	1.068	0.20	1.1	0	97	80-120	0			
Lead	1.176	0.015	1.1	0	107	80-120	0			
Magnesium	1.113	0.20	1.1	0	101	80-120	0			
Manganese	1.094	0.050	1.1	0	99.4	80-120	0			
Nickel	1.097	0.040	1.1	0	99.7	80-120	0			
Potassium	10.96	0.20	11	0	99.6	80-120	0			
Selenium	1.119	0.030	1.1	0	102	80-120	0			
Silver	1.123	0.010	1.1	0	102	80-120	0			
Sodium	1.085	0.20	1.1	0	98.6	80-120	0			
Thallium	1.095	0.0050	1.1	0	99.6	80-120	0			
Vanadium	1.122	0.050	1.1	0	102	80-120	0			
Zinc	1.103	0.050	1.1	0	100	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17398** Instrument ID **ICP3** Method: **SW6010B** (Dissolve)

LCSD	Sample ID	ICSD-17398-17398		Units: mg/L		Analysis Date: 6/26/2013 04:13 PM				
Client ID:	Run ID: ICP3_130626B			SeqNo: 636448		Prep Date: 6/26/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.099	0.20	1.1	0	99.9	80-120	1.112	1.21	20	
Antimony	1.081	0.0060	1.1	0	98.2	80-120	1.079	0.163	20	
Arsenic	1.118	0.010	1.1	0	102	80-120	1.115	0.197	20	
Barium	1.167	0.10	1.1	0	106	80-120	1.162	0.472	20	
Beryllium	1.111	0.0040	1.1	0	101	80-120	1.103	0.695	20	
Cadmium	1.152	0.0050	1.1	0	105	80-120	1.147	0.383	20	
Calcium	1.065	0.20	1.1	0	96.8	80-120	1.069	0.32	20	
Chromium	1.142	0.020	1.1	0	104	80-120	1.134	0.677	20	
Cobalt	1.099	0.050	1.1	0	99.9	80-120	1.094	0.471	20	
Copper	1.089	0.025	1.1	0	99	80-120	1.085	0.395	20	
Iron	1.084	0.20	1.1	0	98.6	80-120	1.068	1.55	20	
Lead	1.178	0.015	1.1	0	107	80-120	1.176	0.187	20	
Magnesium	1.075	0.20	1.1	0	97.8	80-120	1.113	3.47	20	
Manganese	1.097	0.050	1.1	0	99.7	80-120	1.094	0.261	20	
Nickel	1.099	0.040	1.1	0	99.9	80-120	1.097	0.23	20	
Potassium	10.9	0.20	11	0	99.1	80-120	10.96	0.513	20	
Selenium	1.119	0.030	1.1	0	102	80-120	1.119	0	20	
Silver	1.13	0.010	1.1	0	103	80-120	1.123	0.586	20	
Sodium	1.122	0.20	1.1	0	102	80-120	1.085	3.36	20	
Thallium	1.094	0.0050	1.1	0	99.4	80-120	1.095	0.151	20	
Vanadium	1.123	0.050	1.1	0	102	80-120	1.122	0.098	20	
Zinc	1.103	0.050	1.1	0	100	80-120	1.103	0	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17398 Instrument ID ICP3 Method: SW6010B (Dissolve)

MS		Sample ID 1306670-02g ms			Units: mg/L		Analysis Date: 6/26/2013 04:42 PM			
Client ID: MW-6-062413		Run ID: ICP3_130626B			SeqNo: 636450		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.407	0.20	1.1	0.1578	114	75-125	0			
Antimony	1.067	0.0060	1.1	0.003156	96.7	75-125	0			
Arsenic	1.134	0.010	1.1	0.003123	103	75-125	0			
Barium	1.123	0.10	1.1	0.03482	98.9	75-125	0			
Beryllium	1.092	0.0040	1.1	0.0001138	99.3	75-125	0			
Cadmium	1.121	0.0050	1.1	-0.0003154	102	75-125	0			
Calcium	207.1	0.20	1.1	209.9	-250	75-125	0			SO
Chromium	1.08	0.020	1.1	0.001625	98	75-125	0			
Cobalt	1.009	0.050	1.1	0.002196	91.5	75-125	0			
Copper	1.02	0.025	1.1	0.002055	92.6	75-125	0			
Iron	1.615	0.20	1.1	0.5576	96.1	75-125	0			
Lead	1.07	0.015	1.1	0.001137	97.1	75-125	0			
Magnesium	68.94	0.20	1.1	69.12	-17	75-125	0			SO
Manganese	1.458	0.050	1.1	0.4	96.1	75-125	0			
Nickel	1.011	0.040	1.1	0.008847	91.1	75-125	0			
Potassium	15.51	0.20	11	3.743	107	75-125	0			
Selenium	1.123	0.030	1.1	0.005831	102	75-125	0			
Silver	1.074	0.010	1.1	-0.0001319	97.7	75-125	0			
Sodium	65.55	0.20	1.1	62.64	264	75-125	0			SO
Thallium	0.9628	0.0050	1.1	0.003776	87.2	75-125	0			
Vanadium	1.115	0.050	1.1	0.004444	101	75-125	0			
Zinc	1.041	0.050	1.1	0.003645	94.3	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17398 Instrument ID ICP3 Method: SW6010B (Dissolve)

MSD		Sample ID 1306670-02g msd			Units: mg/L		Analysis Date: 6/26/2013 04:49 PM			
Client ID: MW-6-062413		Run ID: ICP3_130626B			SeqNo: 636451		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.368	0.20	1.1	0.1578	110	75-125	1.407	2.77	20	
Antimony	1.06	0.0060	1.1	0.003156	96	75-125	1.067	0.724	20	
Arsenic	1.129	0.010	1.1	0.003123	102	75-125	1.134	0.486	20	
Barium	1.12	0.10	1.1	0.03482	98.6	75-125	1.123	0.294	20	
Beryllium	1.081	0.0040	1.1	0.0001138	98.3	75-125	1.092	1.03	20	
Cadmium	1.115	0.0050	1.1	-0.0003154	101	75-125	1.121	0.492	20	
Calcium	205.7	0.20	1.1	209.9	-380	75-125	207.1	0.693	20	SO
Chromium	1.084	0.020	1.1	0.001625	98.4	75-125	1.08	0.386	20	
Cobalt	1.004	0.050	1.1	0.002196	91.1	75-125	1.009	0.459	20	
Copper	1.019	0.025	1.1	0.002055	92.4	75-125	1.02	0.14	20	
Iron	1.615	0.20	1.1	0.5576	96.1	75-125	1.615	0	20	
Lead	1.067	0.015	1.1	0.001137	96.9	75-125	1.07	0.257	20	
Magnesium	68.68	0.20	1.1	69.12	-40	75-125	68.94	0.368	20	SO
Manganese	1.444	0.050	1.1	0.4	94.9	75-125	1.458	0.91	20	
Nickel	1.009	0.040	1.1	0.008847	90.9	75-125	1.011	0.261	20	
Potassium	15.36	0.20	11	3.743	106	75-125	15.51	0.998	20	
Selenium	1.119	0.030	1.1	0.005831	101	75-125	1.123	0.393	20	
Silver	1.078	0.010	1.1	-0.0001319	98	75-125	1.074	0.348	20	
Sodium	66.1	0.20	1.1	62.64	314	75-125	65.55	0.836	20	SO
Thallium	0.9606	0.0050	1.1	0.003776	87	75-125	0.9628	0.229	20	
Vanadium	1.102	0.050	1.1	0.004444	99.8	75-125	1.115	1.19	20	
Zinc	1.041	0.050	1.1	0.003645	94.3	75-125	1.041	0.0106	20	

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1306670
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17399** Instrument ID **ICP3** Method: **SW6010B**

MBLK		Sample ID mblk-17399-17399		Units: mg/L		Analysis Date: 6/26/2013 04:56 PM				
Client ID:		Run ID: ICP3_130626B		SeqNo: 636495		Prep Date: 6/26/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.20								
Antimony	ND	0.0060								
Arsenic	ND	0.010								
Barium	ND	0.10								
Beryllium	ND	0.0040								
Cadmium	ND	0.0050								
Calcium	ND	0.20								
Chromium	ND	0.020								
Cobalt	ND	0.050								
Copper	ND	0.025								
Iron	ND	0.20								
Lead	ND	0.015								
Magnesium	ND	0.20								
Manganese	ND	0.050								
Nickel	ND	0.040								
Potassium	ND	0.20								
Selenium	ND	0.030								
Silver	ND	0.010								
Sodium	ND	0.20								
Thallium	ND	0.0020								
Vanadium	ND	0.050								
Zinc	ND	0.050								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17399 Instrument ID ICP3 Method: SW6010B

LCS		Sample ID Ics-17399-17399			Units: mg/L		Analysis Date: 6/26/2013 05:04 PM			
Client ID:		Run ID: ICP3_130626B			SeqNo: 636496		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.108	0.20	1.1	0	101	80-120	0			
Antimony	1.065	0.0060	1.1	0	96.8	80-120	0			
Arsenic	1.102	0.010	1.1	0	100	80-120	0			
Barium	1.153	0.10	1.1	0	105	80-120	0			
Beryllium	1.077	0.0040	1.1	0	97.9	80-120	0			
Cadmium	1.137	0.0050	1.1	0	103	80-120	0			
Calcium	1.04	0.20	1.1	0	94.6	80-120	0			
Chromium	1.125	0.020	1.1	0	102	80-120	0			
Cobalt	1.087	0.050	1.1	0	98.8	80-120	0			
Copper	1.075	0.025	1.1	0	97.7	80-120	0			
Iron	1.056	0.20	1.1	0	96	80-120	0			
Lead	1.169	0.015	1.1	0	106	80-120	0			
Magnesium	1.076	0.20	1.1	0	97.8	80-120	0			
Manganese	1.069	0.050	1.1	0	97.2	80-120	0			
Nickel	1.085	0.040	1.1	0	98.6	80-120	0			
Potassium	10.76	0.20	11	0	97.9	80-120	0			
Selenium	1.102	0.030	1.1	0	100	80-120	0			
Silver	1.108	0.010	1.1	0	101	80-120	0			
Sodium	1.112	0.20	1.1	0	101	80-120	0			
Thallium	1.081	0.0020	1.1	0	98.2	80-120	0			
Vanadium	1.089	0.050	1.1	0	99	80-120	0			
Zinc	1.095	0.050	1.1	0	99.6	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17399** Instrument ID **ICP3** Method: **SW6010B**

LCSD	Sample ID	icstd-17399-17399		Units: mg/L		Analysis Date: 6/26/2013 05:10 PM				
Client ID:	Run ID: ICP3_130626B			SeqNo: 636497		Prep Date: 6/26/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.067	0.20	1.1	0	97	80-120	1.108	3.72	20	
Antimony	1.068	0.0060	1.1	0	97.1	80-120	1.065	0.31	20	
Arsenic	1.108	0.010	1.1	0	101	80-120	1.102	0.498	20	
Barium	1.156	0.10	1.1	0	105	80-120	1.153	0.286	20	
Beryllium	1.072	0.0040	1.1	0	97.4	80-120	1.077	0.471	20	
Cadmium	1.142	0.0050	1.1	0	104	80-120	1.137	0.386	20	
Calcium	1.038	0.20	1.1	0	94.4	80-120	1.04	0.212	20	
Chromium	1.126	0.020	1.1	0	102	80-120	1.125	0.0977	20	
Cobalt	1.092	0.050	1.1	0	99.2	80-120	1.087	0.394	20	
Copper	1.078	0.025	1.1	0	98	80-120	1.075	0.317	20	
Iron	1.035	0.20	1.1	0	94.1	80-120	1.056	1.97	20	
Lead	1.174	0.015	1.1	0	107	80-120	1.169	0.376	20	
Magnesium	1.088	0.20	1.1	0	98.9	80-120	1.076	1.11	20	
Manganese	1.065	0.050	1.1	0	96.8	80-120	1.069	0.35	20	
Nickel	1.087	0.040	1.1	0	98.9	80-120	1.085	0.243	20	
Potassium	10.73	0.20	11	0	97.6	80-120	10.76	0.276	20	
Selenium	1.113	0.030	1.1	0	101	80-120	1.102	0.993	20	
Silver	1.111	0.010	1.1	0	101	80-120	1.108	0.297	20	
Sodium	1.125	0.20	1.1	0	102	80-120	1.112	1.18	20	
Thallium	1.086	0.0020	1.1	0	98.7	80-120	1.081	0.467	20	
Vanadium	1.094	0.050	1.1	0	99.4	80-120	1.089	0.403	20	
Zinc	1.098	0.050	1.1	0	99.9	80-120	1.095	0.291	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17399 Instrument ID ICP3 Method: SW6010B

MS		Sample ID 1306670-02f ms			Units: mg/L		Analysis Date: 6/26/2013 05:25 PM			
Client ID: MW-6-062413		Run ID: ICP3_130626B			SeqNo: 636499		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.27	0.20	1.1	0.167	100	75-125	0			
Antimony	1.066	0.0060	1.1	-0.002765	97.1	75-125	0			
Arsenic	1.138	0.010	1.1	0.003134	103	75-125	0			
Barium	1.125	0.10	1.1	0.03193	99.4	75-125	0			
Beryllium	1.081	0.0040	1.1	0.0001587	98.3	75-125	0			
Cadmium	1.121	0.0050	1.1	-9.041E-05	102	75-125	0			
Calcium	205	0.20	1.1	207.7	-240	75-125	0			SO
Chromium	1.078	0.020	1.1	0.002884	97.7	75-125	0			
Cobalt	1.009	0.050	1.1	0.002428	91.5	75-125	0			
Copper	1.021	0.025	1.1	0.002164	92.6	75-125	0			
Iron	2.044	0.20	1.1	1.023	92.8	75-125	0			
Lead	1.074	0.015	1.1	0.001651	97.5	75-125	0			
Magnesium	68.63	0.20	1.1	69.08	-41	75-125	0			SO
Manganese	1.455	0.050	1.1	0.4048	95.5	75-125	0			
Nickel	1.012	0.040	1.1	0.006364	91.4	75-125	0			
Potassium	15.29	0.20	11	4.006	103	75-125	0			
Selenium	1.136	0.030	1.1	0.007647	103	75-125	0			
Silver	1.078	0.010	1.1	0.0001351	98	75-125	0			
Sodium	64.46	0.20	1.1	64.33	12	75-125	0			SO
Thallium	0.9689	0.0020	1.1	0.001804	87.9	75-125	0			
Vanadium	1.11	0.050	1.1	0.006274	100	75-125	0			
Zinc	1.052	0.050	1.1	0.01038	94.7	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17399 Instrument ID ICP3 Method: SW6010B

MSD		Sample ID 1306670-02f msd			Units: mg/L		Analysis Date: 6/26/2013 05:32 PM			
Client ID: MW-6-062413		Run ID: ICP3_130626B			SeqNo: 636500		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.284	0.20	1.1	0.167	102	75-125	1.27	1.03	20	
Antimony	1.052	0.0060	1.1	-0.002765	95.9	75-125	1.066	1.26	20	
Arsenic	1.123	0.010	1.1	0.003134	102	75-125	1.138	1.36	20	
Barium	1.113	0.10	1.1	0.03193	98.3	75-125	1.125	1.08	20	
Beryllium	1.07	0.0040	1.1	0.0001587	97.3	75-125	1.081	0.992	20	
Cadmium	1.108	0.0050	1.1	-9.041E-05	101	75-125	1.121	1.18	20	
Calcium	202.2	0.20	1.1	207.7	-500	75-125	205	1.4	20	SO
Chromium	1.072	0.020	1.1	0.002884	97.2	75-125	1.078	0.522	20	
Cobalt	0.9979	0.050	1.1	0.002428	90.5	75-125	1.009	1.12	20	
Copper	1.011	0.025	1.1	0.002164	91.8	75-125	1.021	0.931	20	
Iron	2.006	0.20	1.1	1.023	89.4	75-125	2.044	1.85	20	
Lead	1.062	0.015	1.1	0.001651	96.4	75-125	1.074	1.13	20	
Magnesium	67.99	0.20	1.1	69.08	-99	75-125	68.63	0.934	20	SO
Manganese	1.439	0.050	1.1	0.4048	94	75-125	1.455	1.14	20	
Nickel	1.004	0.040	1.1	0.006364	90.7	75-125	1.012	0.753	20	
Potassium	15.16	0.20	11	4.006	101	75-125	15.29	0.867	20	
Selenium	1.116	0.030	1.1	0.007647	101	75-125	1.136	1.76	20	
Silver	1.067	0.010	1.1	0.0001351	97	75-125	1.078	1	20	
Sodium	63.62	0.20	1.1	64.33	-64	75-125	64.46	1.31	20	SO
Thallium	0.9646	0.0020	1.1	0.001804	87.5	75-125	0.9689	0.444	20	
Vanadium	1.099	0.050	1.1	0.006274	99.3	75-125	1.11	1.01	20	
Zinc	1.048	0.050	1.1	0.01038	94.3	75-125	1.052	0.388	20	

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100365** Instrument ID **SUB** Method: **SW8151**

MBLK		Sample ID MB-R100365-R100365			Units: µg/L		Analysis Date: 7/1/2013 05:40 PM			
Client ID:		Run ID: SUB_130701C			SeqNo: 641164		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	ND	0.20								
2,4,5-TP (Silvex)	ND	0.20								
2,4-D	ND	2.0								
2,4-DB	ND	2.0								
Dalapon	ND	5.0								
Dicamba	ND	0.20								
Dichlorprop	ND	2.0								
Dinoseb	ND	1.0								
MCPA	ND	250								
MCPP	ND	250								
Pentachlorophenol	ND	0.20								
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	120	0	100	0	120	20-144	0			

LCS		Sample ID LCS-R100365-R100365			Units: µg/L		Analysis Date: 7/1/2013 06:06 PM			
Client ID:		Run ID: SUB_130701C			SeqNo: 641165		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	0.535	0.20	0.5	0	107	30-110	0			
2,4,5-TP (Silvex)	0.484	0.20	0.5	0	96.8	30-110	0			
2,4-D	4.58	2.0	5	0	91.6	30-100	0			
2,4-DB	4.75	2.0	5	0	95	30-110	0			
Dalapon	ND	5.0	12.5	0	30.5	10-100	0			
Dicamba	0.497	0.20	0.5	0	99.4	30-135	0			
Dichlorprop	5.9	2.0	5	0	118	25-115	0			S
Dinoseb	2.34	1.0	2.5	0	93.6	30-105	0			
MCPA	406	250	500	0	81.2	25-100	0			
MCPP	427	250	500	0	85.4	30-120	0			
Pentachlorophenol	0.391	0.20	0.5	0	78.2	30-105	0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	147	0	100	0	147	20-144	0			S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100365** Instrument ID **SUB** Method: **SW8151**

MS		Sample ID 1306628-06EMS			Units: µg/L		Analysis Date: 7/2/2013 01:02 AM			
Client ID:		Run ID: SUB_130701C			SeqNo: 641171		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	0.509	0.20	0.5	0	102	50-150	0			
2,4,5-TP (Silvex)	0.453	0.20	0.5	0	90.6	50-150	0			
2,4-D	4.17	2.0	5	0	83.4	50-150	0			
2,4-DB	4.45	2.0	5	0	89		0			
Dalapon	ND	5.0	12.5	0	27.1		0			
Dicamba	0.441	0.20	0.5	0	88.2		0			
Dichlorprop	5.36	2.0	5	0	107		0			
Dinoseb	2.09	1.0	2.5	0	83.6		0			
MCPA	370	250	500	0	74		0			
MCPP	393	250	500	0	78.6		0			
Pentachlorophenol	0.321	0.20	0.5	0	64.2		0			
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	124	0	100	0	124	20-144	0			

MSD		Sample ID 1306628-06EMSD			Units: µg/L		Analysis Date: 7/2/2013 01:28 AM			
Client ID:		Run ID: SUB_130701C			SeqNo: 641172		Prep Date: 6/26/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	0.686	0.20	0.5	0	137	50-150	0.509	29.6		
2,4,5-TP (Silvex)	0.639	0.20	0.5	0	128	50-150	0.453	34.1		
2,4-D	5.57	2.0	5	0	111	50-150	4.17	28.7		
2,4-DB	5.7	2.0	5	0	114		4.45	24.6		
Dalapon	ND	5.0	12.5	0	24.3		3.39	0		
Dicamba	0.588	0.20	0.5	0	118		0.441	28.6		
Dichlorprop	7.32	2.0	5	0	146		5.36	30.9		
Dinoseb	2.82	1.0	2.5	0	113		2.09	29.7		
MCPA	553	250	500	0	111		370	39.7		
MCPP	568	250	500	0	114		393	36.4		
Pentachlorophenol	0.459	0.20	0.5	0	91.8		0.321	35.4		
<i>Surr: 2,4-Dichlorophenylacetic acid</i>	164	0	100	0	164	20-144	124	27.8		S

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1306670
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **17423** Instrument ID **SVMS3** Method: **SW8270C**

MBLK		Sample ID mblk-17423-17423		Units: $\mu\text{g/L}$		Analysis Date: 6/28/2013 10:09 PM				
Client ID:		Run ID: SVMS3_130628A		SeqNo: 639076		Prep Date: 6/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.10								
Acenaphthene	ND	0.10								
Acenaphthylene	ND	0.10								
Anthracene	ND	0.10								
Benzo(a)anthracene	ND	0.10								
Benzo(a)pyrene	ND	0.10								
Benzo(b)fluoranthene	ND	0.11								
Benzo(g,h,i)perylene	ND	0.10								
Benzo(k)fluoranthene	ND	0.16								
Carbazole	ND	10								
Chrysene	ND	0.10								
Dibenzo(a,h)anthracene	ND	0.10								
Dibenzofuran	ND	10								
Fluoranthene	ND	0.10								
Fluorene	ND	0.10								
Indeno(1,2,3-cd)pyrene	ND	0.10								
Naphthalene	ND	0.10								
Phenanthrene	ND	0.10								
Pyrene	ND	0.10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17423 Instrument ID SVMS3 Method: SW8270C

MBLK	Sample ID	mbik-17423-17423		Units: µg/L		Analysis Date: 6/28/2013 06:35 PM				
Client ID:	Run ID:	SVMS2_130628A		SeqNo: 639124		Prep Date: 6/27/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	10								
1,2,4-Trichlorobenzene	ND	10								
1,2-Dichlorobenzene	ND	10								
1,3-Dichlorobenzene	ND	10								
1,3-Dinitrobenzene	ND	10								
1,4-Dichlorobenzene	ND	10								
1-Naphthylamine	ND	10								
2,3,4,6-Tetrachlorophenol	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
2,4-Dichlorophenol	ND	10								
2,4-Dimethylphenol	ND	10								
2,4-Dinitrophenol	ND	10								
2,4-Dinitrotoluene	ND	10								
2,6-Dichlorophenol	ND	10								
2,6-Dinitrotoluene	ND	10								
2-Acetylaminofluorene	ND	10								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	10								
2-Methylphenol	ND	10								
2-Naphthylamine	ND	20								
2-Nitroaniline	ND	10								
2-Nitrophenol	ND	10								
2-Picoline	ND	20								
3&4-Methylphenol	ND	10								
3,3'-Dichlorobenzidine	ND	10								
3-Methylcholanthrene	ND	20								
3-Nitroaniline	ND	20								
4,6-Dinitro-2-methylphenol	ND	20								
4-Aminobiphenyl	ND	10								
4-Bromophenyl phenyl ether	ND	20								
4-Chloro-3-methylphenol	ND	20								
4-Chloroaniline	ND	10								
4-Chlorophenyl phenyl ether	ND	20								
4-Nitroaniline	ND	20								
4-Nitrophenol	ND	10								
4-Nitroquinoline 1-oxide	ND	10								
5-Nitro-o-toluidine	ND	10								
7,12-Dimethylbenz(a)anthracene	ND	10								
Acetophenone	ND	10								
Aniline	ND	10								
Azobenzene	ND	10								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17423	Instrument ID SVMS3	Method: SW8270C						
Benzidine	ND	10						
Benzyl alcohol	ND	10						
Bis(2-chloroethoxy)methane	ND	10						
Bis(2-chloroethyl)ether	ND	10						
Bis(2-chloroisopropyl)ether	ND	10						
Bis(2-ethylhexyl)phthalate	ND	10						
Butyl benzyl phthalate	ND	10						
Diethyl phthalate	ND	10						
Dimethyl phthalate	ND	10						
Di-n-butyl phthalate	ND	10						
Di-n-octyl phthalate	ND	10						
Dinoseb	ND	20						
Diphenylamine	ND	10						
Ethyl methanesulfonate	ND	10						
Hexachlorobenzene	ND	10						
Hexachlorobutadiene	ND	10						
Hexachlorocyclopentadiene	ND	10						
Hexachloroethane	ND	10						
Isophorone	ND	10						
Isosafrole	ND	10						
Methapyrilene	ND	10						
Methyl methanesulfonate	ND	10						
Nitrobenzene	ND	10						
N-Nitrosodiethylamine	ND	10						
N-Nitrosodimethylamine	ND	10						
N-Nitroso-di-n-butylamine	ND	10						
N-Nitrosodi-n-propylamine	ND	10						
N-Nitrosomethylethylamine	ND	10						
N-Nitrosomorpholine	ND	10						
N-Nitrosopiperidine	ND	10						
N-Nitrosopyrrolidine	ND	10						
o-Toluidine	ND	10						
p-Dimethylaminoazobenzene	ND	10						
Pentachlorobenzene	ND	10						
Pentachloroethane	ND	10						
Pentachloronitrobenzene	ND	20						
Pentachlorophenol	ND	20						
Phenacetin	ND	20						
Phenol	ND	10						
Pyridine	ND	10						
Safrole	ND	10						
<i>Surr: 2,4,6-Tribromophenol</i>	84.28	0	100	0	84.3	35-120	0	
<i>Surr: 2-Fluorobiphenyl</i>	32.2	0	50	0	64.4	38-105	0	
<i>Surr: 2-Fluorophenol</i>	34.93	0	100	0	34.9	12-89	0	
<i>Surr: 4-Terphenyl-d14</i>	43.89	0	50	0	87.8	42-125	0	
<i>Surr: Nitrobenzene-d5</i>	32.56	0	50	0	65.1	28-120	0	
<i>Surr: Phenol-d5</i>	29.79	0	100	0	29.8	10-62	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 17423 Instrument ID SVMS3 Method: SW8270C

LCS		Sample ID Ics-17423-17423			Units: µg/L		Analysis Date: 6/28/2013 07:10 PM			
Client ID:		Run ID: SVMS2_130628A			SeqNo: 639125		Prep Date: 6/27/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	31.71	10	50	0	63.4	49.8-102	0			
1,4-Dichlorobenzene	27.42	10	50	0	54.8	44-92.8	0			
2,4-Dinitrotoluene	46.11	10	50	0	92.2	61.3-108	0			
2-Chlorophenol	33.13	10	50	0	66.3	33.3-89.9	0			
4-Chloro-3-methylphenol	43.85	20	50	0	87.7	39.3-96.6	0			
4-Nitrophenol	23.31	10	50	0	46.6	17.3-80.3	0			
Acenaphthene	38.05	0.10	50	0	76.1	40.1-123	0			
Acenaphthylene	38.66	0.10	50	0	77.3	59.3-126	0			
Anthracene	41.03	0.10	50	0	82.1	62.1-110	0			
Benzo(a)anthracene	46.55	0.10	50	0	93.1	62.3-118	0			
Benzo(a)pyrene	47.7	0.10	50	0	95.4	69.6-111	0			
Benzo(b)fluoranthene	39.05	0.11	50	0	78.1	60.1-94.5	0			
Benzo(g,h,i)perylene	45.78	0.10	50	0	91.6	66.8-138	0			
Benzo(k)fluoranthene	50.16	0.16	50	0	100	68.8-136	0			
Carbazole	45.68	10	50	0	91.4	70.8-115	0			
Chrysene	48.09	0.10	50	0	96.2	63.1-116	0			
Dibenzo(a,h)anthracene	43.36	0.10	50	0	86.7	47.1-168	0			
Fluoranthene	43.45	0.10	50	0	86.9	58.1-117	0			
Fluorene	40.71	0.10	50	0	81.4	59.5-120	0			
Indeno(1,2,3-cd)pyrene	42.03	0.10	50	0	84.1	56.3-141	0			
Naphthalene	32.53	0.10	50	0	65.1	46.6-104	0			
N-Nitrosodi-n-propylamine	38.18	10	50	0	76.4	54.8-121	0			
Pentachlorophenol	45.94	20	50	0	91.9	34.1-130	0			
Phenanthrene	42.2	0.10	50	0	84.4	63-118	0			
Phenol	17.02	10	50	0	34	17.5-68	0			
Pyrene	40.72	0.10	50	0	81.4	42-125	0			
Surr: 2,4,6-Tribromophenol	77.81	0	100	0	77.8	35-120	0			
Surr: 2-Fluorobiphenyl	35.18	0	50	0	70.4	38-105	0			
Surr: 2-Fluorophenol	40.74	0	100	0	40.7	12-89	0			
Surr: 4-Terphenyl-d14	40.75	0	50	0	81.5	42-125	0			
Surr: Nitrobenzene-d5	33.47	0	50	0	66.9	28-120	0			
Surr: Phenol-d5	33.49	0	100	0	33.5	10-62	0			

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100272** Instrument ID **VMS1** Method: **SW8260**

MBLK	Sample ID	MBLK-R100272		Units: µg/L		Analysis Date: 7/1/2013 01:05 PM				
Client ID:	Run ID: VMS1_130701A			SeqNo: 639459		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1306670
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R100272	Instrument ID VMS1	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	2.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	50.09	0	50	0	100	61-131	0
<i>Surr: Dibromofluoromethane</i>	49.47	0	50	0	98.9	87-126	0
<i>Surr: Toluene-d8</i>	51.43	0	50	0	103	84-111	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100272** Instrument ID **VMS1** Method: **SW8260**

LCS		Sample ID LCS-R100272			Units: µg/L		Analysis Date: 7/1/2013 01:35 PM			
Client ID:		Run ID: VMS1_130701A			SeqNo: 639460		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	38.25	5.0	50	0	76.5	48.4-140	0			
1,1-Dichloroethene	41.27	5.0	50	0	82.5	45.5-150	0			
1,2-Dichloroethane	37.28	5.0	50	0	74.6	46.5-141	0			
1,3-Dichlorobenzene	37.08	5.0	50	0	74.2	42.5-133	0			
1,4-Dichlorobenzene	35.99	5.0	50	0	72	38.9-136	0			
Benzene	37.37	5.0	50	0	74.7	50.7-134	0			
Carbon tetrachloride	37.93	5.0	50	0	75.9	45.5-143	0			
Chlorobenzene	39.18	5.0	50	0	78.4	45-133	0			
Chloroform	39.37	5.0	50	0	78.7	52.4-136	0			
cis-1,2-Dichloroethene	39.78	5.0	50	0	79.6	49.7-138	0			
Ethylbenzene	38.57	5.0	50	0	77.1	37.8-145	0			
m,p-Xylene	75.14	5.0	100	0	75.1	25.1-163	0			
Styrene	38.8	5.0	50	0	77.6	26.3-172	0			
Tetrachloroethene	38.38	5.0	50	0	76.8	37.3-139	0			
Toluene	37.64	5.0	50	0	75.3	44-135	0			
Trichloroethene	40.46	5.0	50	0	80.9	46.9-134	0			
Surr: 4-Bromofluorobenzene	49.86	0	50	0	99.7	61-131	0			
Surr: Dibromofluoromethane	50.23	0	50	0	100	87-126	0			
Surr: Toluene-d8	50.9	0	50	0	102	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100272** Instrument ID **VMS1** Method: **SW8260**

MS		Sample ID 1306628-05A MS			Units: µg/L		Analysis Date: 7/1/2013 02:05 PM			
Client ID:		Run ID: VMS1_130701A			SeqNo: 639461		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	37.01	5.0	50	0	74	47.4-141	0			
1,1-Dichloroethene	36.17	5.0	50	0	72.3	56.3-140	0			
1,2-Dichloroethane	40.61	5.0	50	0	81.2	50.1-139	0			
1,3-Dichlorobenzene	32.88	5.0	50	0	65.8	53-127	0			
1,4-Dichlorobenzene	33.84	5.0	50	0	67.7	53.4-129	0			
Benzene	36.86	5.0	50	0	73.7	52.8-136	0			
Carbon tetrachloride	36.59	5.0	50	0	73.2	48.1-141	0			
Chlorobenzene	37.21	5.0	50	0	74.4	52.4-132	0			
Chloroform	36.35	5.0	50	0	72.7	52.9-136	0			
cis-1,2-Dichloroethene	37.39	5.0	50	0	74.8	63.5-128	0			
Ethylbenzene	34.92	5.0	50	0	69.8	46.5-146	0			
m,p-Xylene	68.72	5.0	100	0	68.7	38.2-167	0			
Styrene	36.17	5.0	50	0	72.3	20.9-184	0			
Tetrachloroethene	33.97	5.0	50	0	67.9	55.2-134	0			
Toluene	35.88	5.0	50	0	71.8	45.1-138	0			
Trichloroethene	38.8	5.0	50	0	77.6	52.8-133	0			
<i>Surr: 4-Bromofluorobenzene</i>	51.68	0	50	0	103	61-131	0			
<i>Surr: Dibromofluoromethane</i>	48.96	0	50	0	97.9	87-126	0			
<i>Surr: Toluene-d8</i>	49.57	0	50	0	99.1	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100272** Instrument ID **VMS1** Method: **SW8260**

MSD		Sample ID 1306628-05A MSD			Units: $\mu\text{g/L}$		Analysis Date: 7/1/2013 02:35 PM			
Client ID:		Run ID: VMS1_130701A			SeqNo: 639462		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	50.51	5.0	50	0	101	47.4-141	37.01	30.9	20	R
1,1-Dichloroethene	53.44	5.0	50	0	107	56.3-140	36.17	38.5	20	R
1,2-Dichloroethane	52.49	5.0	50	0	105	50.1-139	40.61	25.5	20	R
1,3-Dichlorobenzene	50.88	5.0	50	0	102	53-127	32.88	43	20	R
1,4-Dichlorobenzene	51.64	5.0	50	0	103	53.4-129	33.84	41.6	20	R
Benzene	49.88	5.0	50	0	99.8	52.8-136	36.86	30	20	R
Carbon tetrachloride	53.15	5.0	50	0	106	48.1-141	36.59	36.9	20	R
Chlorobenzene	51.93	5.0	50	0	104	52.4-132	37.21	33	20	R
Chloroform	51.26	5.0	50	0	103	52.9-136	36.35	34	20	R
cis-1,2-Dichloroethene	51.69	5.0	50	0	103	63.5-128	37.39	32.1	20	R
Ethylbenzene	50.93	5.0	50	0	102	46.5-146	34.92	37.3	20	R
m,p-Xylene	99.71	5.0	100	0	99.7	38.2-167	68.72	36.8	20	R
Styrene	50.52	5.0	50	0	101	20.9-184	36.17	33.1	20	R
Tetrachloroethene	49.64	5.0	50	0	99.3	55.2-134	33.97	37.5	20	R
Toluene	50.28	5.0	50	0	101	45.1-138	35.88	33.4	20	R
Trichloroethene	53.49	5.0	50	0	107	52.8-133	38.8	31.8	20	R
Surr: 4-Bromofluorobenzene	51.82	0	50	0	104	61-131	51.68	0.271		
Surr: Dibromofluoromethane	50.41	0	50	0	101	87-126	48.96	2.92		
Surr: Toluene-d8	49.67	0	50	0	99.3	84-111	49.57	0.202		

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100286** Instrument ID **VMS1** Method: **SW8260**

MBLK	Sample ID	MBLK-R100286		Units: µg/L		Analysis Date: 7/2/2013 10:37 AM				
Client ID:	Run ID:	VMS1_130702A		SeqNo: 639767		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1306670
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R100286	Instrument ID VMS1	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	2.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	50.61	0	50	0	101	61-131	0
<i>Surr: Dibromofluoromethane</i>	48.07	0	50	0	96.1	87-126	0
<i>Surr: Toluene-d8</i>	42.84	0	50	0	85.7	84-111	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100286** Instrument ID **VMS1** Method: **SW8260**

LCS		Sample ID LCS-R100286			Units: µg/L		Analysis Date: 7/2/2013 11:07 AM			
Client ID:		Run ID: VMS1_130702A			SeqNo: 639768		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	43.34	5.0	50	0	86.7	48.4-140	0			
1,1-Dichloroethene	62.4	5.0	50	0	125	45.5-150	0			
1,2-Dichloroethane	46.49	5.0	50	0	93	46.5-141	0			
1,3-Dichlorobenzene	45.84	5.0	50	0	91.7	42.5-133	0			
1,4-Dichlorobenzene	45.89	5.0	50	0	91.8	38.9-136	0			
Benzene	52.96	5.0	50	0	106	50.7-134	0			
Carbon tetrachloride	40.4	5.0	50	0	80.8	45.5-143	0			
Chlorobenzene	48.81	5.0	50	0	97.6	45-133	0			
Chloroform	51.82	5.0	50	0	104	52.4-136	0			
cis-1,2-Dichloroethene	57.51	5.0	50	0	115	49.7-138	0			
Ethylbenzene	47.14	5.0	50	0	94.3	37.8-145	0			
m,p-Xylene	96.33	5.0	100	0	96.3	25.1-163	0			
Styrene	47.42	5.0	50	0	94.8	26.3-172	0			
Tetrachloroethene	47.56	5.0	50	0	95.1	37.3-139	0			
Toluene	47.06	5.0	50	0	94.1	44-135	0			
Trichloroethene	50.11	5.0	50	0	100	46.9-134	0			
Surr: 4-Bromofluorobenzene	55.2	0	50	0	110	61-131	0			
Surr: Dibromofluoromethane	53.34	0	50	0	107	87-126	0			
Surr: Toluene-d8	50.84	0	50	0	102	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100286** Instrument ID **VMS1** Method: **SW8260**

MS		Sample ID 1306670-03A MS			Units: µg/L		Analysis Date: 7/2/2013 11:37 AM			
Client ID: SW-9-062413		Run ID: VMS1_130702A			SeqNo: 639769		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	36.48	5.0	50	0	73	47.4-141	0			
1,1-Dichloroethene	52.08	5.0	50	0	104	56.3-140	0			
1,2-Dichloroethane	38.73	5.0	50	0	77.5	50.1-139	0			
1,3-Dichlorobenzene	41.2	5.0	50	0	82.4	53-127	0			
1,4-Dichlorobenzene	40.34	5.0	50	0	80.7	53.4-129	0			
Benzene	46.81	5.0	50	0	93.6	52.8-136	0			
Carbon tetrachloride	35.08	5.0	50	0	70.2	48.1-141	0			
Chlorobenzene	42.36	5.0	50	0	84.7	52.4-132	0			
Chloroform	43.78	5.0	50	0	87.6	52.9-136	0			
cis-1,2-Dichloroethene	50.23	5.0	50	0	100	63.5-128	0			
Ethylbenzene	41.59	5.0	50	0	83.2	46.5-146	0			
m,p-Xylene	84.09	5.0	100	0	84.1	38.2-167	0			
Styrene	41.12	5.0	50	0	82.2	20.9-184	0			
Tetrachloroethene	40.42	5.0	50	0	80.8	55.2-134	0			
Toluene	41.66	5.0	50	0	83.3	45.1-138	0			
Trichloroethene	44.37	5.0	50	0	88.7	52.8-133	0			
Surr: 4-Bromofluorobenzene	53.59	0	50	0	107	61-131	0			
Surr: Dibromofluoromethane	52.64	0	50	0	105	87-126	0			
Surr: Toluene-d8	51.47	0	50	0	103	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1306670
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R100286** Instrument ID **VMS1** Method: **SW8260**

MSD		Sample ID 1306670-03A MSD			Units: µg/L		Analysis Date: 7/2/2013 12:11 PM			
Client ID: SW-9-062413		Run ID: VMS1_130702A			SeqNo: 639770		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	33.96	5.0	50	0	67.9	47.4-141	36.48	7.16	20	
1,1-Dichloroethene	45.45	5.0	50	0	90.9	56.3-140	52.08	13.6	20	
1,2-Dichloroethane	34.71	5.0	50	0	69.4	50.1-139	38.73	10.9	20	
1,3-Dichlorobenzene	36.41	5.0	50	0	72.8	53-127	41.2	12.3	20	
1,4-Dichlorobenzene	36.86	5.0	50	0	73.7	53.4-129	40.34	9.02	20	
Benzene	41.68	5.0	50	0	83.4	52.8-136	46.81	11.6	20	
Carbon tetrachloride	33.22	5.0	50	0	66.4	48.1-141	35.08	5.45	20	
Chlorobenzene	39.01	5.0	50	0	78	52.4-132	42.36	8.23	20	
Chloroform	37.83	5.0	50	0	75.7	52.9-136	43.78	14.6	20	
cis-1,2-Dichloroethene	42.75	5.0	50	0	85.5	63.5-128	50.23	16.1	20	
Ethylbenzene	39.22	5.0	50	0	78.4	46.5-146	41.59	5.87	20	
m,p-Xylene	80.61	5.0	100	0	80.6	38.2-167	84.09	4.23	20	
Styrene	38.28	5.0	50	0	76.6	20.9-184	41.12	7.15	20	
Tetrachloroethene	37.81	5.0	50	0	75.6	55.2-134	40.42	6.67	20	
Toluene	37.01	5.0	50	0	74	45.1-138	41.66	11.8	20	
Trichloroethene	40.16	5.0	50	0	80.3	52.8-133	44.37	9.96	20	
Surr: 4-Bromofluorobenzene	51.79	0	50	0	104	61-131	53.59	3.42		
Surr: Dibromofluoromethane	51	0	50	0	102	87-126	52.64	3.16		
Surr: Toluene-d8	49.82	0	50	0	99.6	84-111	51.47	3.26		

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
WorkOrder: 1306670

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/L	
mg/L	

Sample Receipt Checklist

Client Name: AECOM-CINCINNATI

Date/Time Received: 25-Jun-13 00:00

Work Order: 1306670

Received by: SMS

Checklist completed by Chris Gibson 25-Jun-13
eSignature Date

Reviewed by: Chris Gibson 25-Jun-13
eSignature Date

Matrices: Soil/Water

Carrier name: Client

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 4.1

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

[Empty text box for comments]

CorrectiveAction:

[Empty text box for corrective action]

Appendix Q

Filter Media and Soil Laboratory Report



23-Aug-2013

Elaine Nomina
AECOM
4219 Malsbury Road
Cincinnati, OH 45242

Tel: (513) 878-6853
Fax: (513) 878-6848

Re: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: **1305490**

Dear Elaine,

ALS Environmental received 21 samples on 22-May-2013 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 27.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Rob Nieman

Chris Gibson
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

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Environmental

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RIGHT SOLUTIONS RIGHT PARTNER

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305490

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1305490-09	SF-1	Soil		5/22/2013 10:25	5/22/2013	<input type="checkbox"/>
1305490-10	SF-2	Soil		5/22/2013 10:35	5/22/2013	<input type="checkbox"/>
1305490-11	SF-2B	Soil		5/22/2013	5/22/2013	<input type="checkbox"/>
1305490-12	SF-3	Soil		5/22/2013 10:40	5/22/2013	<input type="checkbox"/>
1305490-13	SF-S1-0001	Soil		5/22/2013 11:10	5/22/2013	<input type="checkbox"/>
1305490-14	SF-S1-0102	Soil		5/22/2013 11:14	5/22/2013	<input type="checkbox"/>
1305490-15	ASTE-1	Soil		5/22/2013 11:55	5/22/2013	<input type="checkbox"/>
1305490-16	ASTW-1	Soil		5/22/2013 12:05	5/22/2013	<input type="checkbox"/>
1305490-17	ASTW-S1-0001	Soil		5/22/2013 12:15	5/22/2013	<input type="checkbox"/>
1305490-18	ASTW-S1-0102	Soil		5/22/2013 12:20	5/22/2013	<input type="checkbox"/>
1305490-19	ASTE-S1-0001	Soil		5/22/2013 12:35	5/22/2013	<input type="checkbox"/>
1305490-20	ASTE-S1-0102	Soil		5/22/2013 12:40	5/22/2013	<input type="checkbox"/>
1305490-21	TB-052213	Water		5/22/2013	5/22/2013	<input type="checkbox"/>

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305490

Case Narrative

The analyses requested were analyzed according to Ohio Voluntary Action Program requirements.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SF-1

Lab ID: 1305490-09

Collection Date: 5/22/2013 10:25 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1221	ND		0.22	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Surr: Decachlorobiphenyl	87.2		22-156	%REC	1	5/30/2013 08:19 AM
Surr: Tetrachloro-m-xylene	84.8		34-145	%REC	1	5/30/2013 08:19 AM
MOISTURE			SM2540B		Prep Date: 5/23/2013	Analyst: CTS
Moisture	7.6		0.010	% of sample	1	5/24/2013
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Cobalt	ND		5.3	mg/Kg-dry	1	5/24/2013 10:45 PM
Nickel	5.7		5.3	mg/Kg-dry	1	5/24/2013 10:45 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SF-2

Lab ID: 1305490-10

Collection Date: 5/22/2013 10:35 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1221	ND		0.21	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Surr: Decachlorobiphenyl	86.4		22-156	%REC	1	5/30/2013 08:19 AM
Surr: Tetrachloro-m-xylene	84.4		34-145	%REC	1	5/30/2013 08:19 AM
MOISTURE			SM2540B		Prep Date: 5/23/2013	Analyst: CTS
Moisture	4.9		0.010	% of sample	1	5/24/2013
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Cobalt	ND		5.2	mg/Kg-dry	1	5/24/2013 10:51 PM
Nickel	ND		5.2	mg/Kg-dry	1	5/24/2013 10:51 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SF-2B

Lab ID: 1305490-11

Collection Date: 5/22/2013

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1221	ND		0.21	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Surr: Decachlorobiphenyl	88.4		22-156	%REC	1	5/30/2013 08:19 AM
Surr: Tetrachloro-m-xylene	88.0		34-145	%REC	1	5/30/2013 08:19 AM
MOISTURE			SM2540B		Prep Date: 5/23/2013	Analyst: CTS
Moisture	6.4		0.010	% of sample	1	5/24/2013
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Cobalt	ND		5.3	mg/Kg-dry	1	5/24/2013 10:57 PM
Nickel	ND		5.3	mg/Kg-dry	1	5/24/2013 10:57 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SF-3

Lab ID: 1305490-12

Collection Date: 5/22/2013 10:40 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1221	ND		0.22	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Surr: Decachlorobiphenyl	91.2		22-156	%REC	1	5/30/2013 08:19 AM
Surr: Tetrachloro-m-xylene	89.6		34-145	%REC	1	5/30/2013 08:19 AM
MOISTURE			SM2540B		Prep Date: 5/23/2013	Analyst: CTS
Moisture	7.9		0.010	% of sample	1	5/24/2013
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Cobalt	ND		5.4	mg/Kg-dry	1	5/24/2013 11:03 PM
Nickel	5.7		5.4	mg/Kg-dry	1	5/24/2013 11:03 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SF-S1-0001

Lab ID: 1305490-13

Collection Date: 5/22/2013 11:10 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1254	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1260	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Surr: Decachlorobiphenyl	89.2		22-156	%REC	1	5/30/2013 08:19 AM
Surr: Tetrachloro-m-xylene	89.8		34-145	%REC	1	5/30/2013 08:19 AM
MOISTURE			SM2540B		Prep Date: 5/23/2013	Analyst: CTS
Moisture	12		0.010	% of sample	1	5/24/2013
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Cobalt	8.6		5.6	mg/Kg-dry	1	5/24/2013 11:09 PM
Nickel	21		5.6	mg/Kg-dry	1	5/24/2013 11:09 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: SF-S1-0102

Lab ID: 1305490-14

Collection Date: 5/22/2013 11:14 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1232	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1242	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1248	ND		0.11	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1254	ND		1.1	mg/Kg-dry	10	5/30/2013 08:19 AM
Aroclor 1260	ND		1.1	mg/Kg-dry	10	5/30/2013 08:19 AM
Surr: Decachlorobiphenyl	113		22-156	%REC	1	5/30/2013 08:19 AM
Surr: Tetrachloro-m-xylene	87.2		34-145	%REC	1	5/30/2013 08:19 AM
MOISTURE			SM2540B		Prep Date: 5/23/2013	Analyst: CTS
Moisture	13		0.010	% of sample	1	5/24/2013
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Cobalt	7.4		5.6	mg/Kg-dry	1	5/25/2013 01:15 PM
Nickel	20		5.6	mg/Kg-dry	1	5/25/2013 01:15 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: ASTE-1

Lab ID: 1305490-15

Collection Date: 5/22/2013 11:55 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.10	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1221	ND		0.20	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1232	ND		0.10	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1242	ND		0.10	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1248	ND		0.10	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1254	ND		0.10	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1260	ND		0.10	mg/Kg-dry	1	5/30/2013 08:19 AM
Surr: Decachlorobiphenyl	90.0		22-156	%REC	1	5/30/2013 08:19 AM
Surr: Tetrachloro-m-xylene	90.4		34-145	%REC	1	5/30/2013 08:19 AM
MOISTURE			SM2540B		Prep Date: 5/23/2013	Analyst: CTS
Moisture	2.7		0.010	% of sample	1	5/24/2013
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Cobalt	ND		5.1	mg/Kg-dry	1	5/25/2013 01:22 PM
Nickel	11		5.1	mg/Kg-dry	1	5/25/2013 01:22 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: ASTW-1

Lab ID: 1305490-16

Collection Date: 5/22/2013 12:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.10	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1221	ND		0.21	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1232	ND		0.10	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1242	ND		0.10	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1248	ND		0.10	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1254	ND		0.10	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1260	ND		0.10	mg/Kg-dry	1	5/30/2013 08:19 AM
Surr: Decachlorobiphenyl	59.0		22-156	%REC	1	5/30/2013 08:19 AM
Surr: Tetrachloro-m-xylene	56.4		34-145	%REC	1	5/30/2013 08:19 AM
MOISTURE			SM2540B		Prep Date: 5/23/2013	Analyst: CTS
Moisture	3.9		0.010	% of sample	1	5/24/2013
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Cobalt	7.4		5.1	mg/Kg-dry	1	5/25/2013 01:28 PM
Nickel	34		5.1	mg/Kg-dry	1	5/25/2013 01:28 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: ASTW-S1-0001

Lab ID: 1305490-17

Collection Date: 5/22/2013 12:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Surr: Decachlorobiphenyl	85.6		22-156	%REC	1	5/30/2013 08:19 AM
Surr: Tetrachloro-m-xylene	80.8		34-145	%REC	1	5/30/2013 08:19 AM
MOISTURE			SM2540B		Prep Date: 5/23/2013	Analyst: CTS
Moisture	16		0.010	% of sample	1	5/24/2013
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Cobalt	ND		5.9	mg/Kg-dry	1	5/25/2013 01:34 PM
Nickel	15		5.9	mg/Kg-dry	1	5/25/2013 01:34 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: ASTW-S1-0102

Lab ID: 1305490-18

Collection Date: 5/22/2013 12:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Surr: Decachlorobiphenyl	88.8		22-156	%REC	1	5/30/2013 08:19 AM
Surr: Tetrachloro-m-xylene	85.0		34-145	%REC	1	5/30/2013 08:19 AM
MOISTURE			SM2540B		Prep Date: 5/23/2013	Analyst: CTS
Moisture	18		0.010	% of sample	1	5/24/2013
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Cobalt	7.0		6.0	mg/Kg-dry	1	5/25/2013 02:17 PM
Nickel	17		6.0	mg/Kg-dry	1	5/25/2013 02:17 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: ASTE-S1-0001

Lab ID: 1305490-19

Collection Date: 5/22/2013 12:35 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Surr: Decachlorobiphenyl	85.8		22-156	%REC	1	5/30/2013 08:19 AM
Surr: Tetrachloro-m-xylene	83.8		34-145	%REC	1	5/30/2013 08:19 AM
MOISTURE			SM2540B		Prep Date: 5/23/2013	Analyst: CTS
Moisture	18		0.010	% of sample	1	5/24/2013
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Cobalt	ND		6.1	mg/Kg-dry	1	5/25/2013 02:23 PM
Nickel	12		6.1	mg/Kg-dry	1	5/25/2013 02:23 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: ASTE-S1-0102

Lab ID: 1305490-20

Collection Date: 5/22/2013 12:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082		Prep Date: 5/29/2013	Analyst: SAD
Aroclor 1016	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	5/30/2013 08:19 AM
Surr: Decachlorobiphenyl	85.2		22-156	%REC	1	5/30/2013 08:19 AM
Surr: Tetrachloro-m-xylene	83.6		34-145	%REC	1	5/30/2013 08:19 AM
MOISTURE			SM2540B		Prep Date: 5/23/2013	Analyst: CTS
Moisture	16		0.010	% of sample	1	5/24/2013
METALS BY ICP			SW6010B		Prep Date: 5/24/2013	Analyst: VAW
Cobalt	ND		5.9	mg/Kg-dry	1	5/25/2013 02:30 PM
Nickel	12		5.9	mg/Kg-dry	1	5/25/2013 02:30 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: TB-052213

Lab ID: 1305490-21

Collection Date: 5/22/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: LAK
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	5/29/2013 02:46 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	5/29/2013 02:46 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	5/29/2013 02:46 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	5/29/2013 02:46 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	5/29/2013 02:46 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	5/29/2013 02:46 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	5/29/2013 02:46 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	5/29/2013 02:46 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	5/29/2013 02:46 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	5/29/2013 02:46 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	5/29/2013 02:46 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	5/29/2013 02:46 PM
2-Butanone	ND		5.0	µg/L	1	5/29/2013 02:46 PM
2-Chlorotoluene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
2-Hexanone	ND		5.0	µg/L	1	5/29/2013 02:46 PM
4-Chlorotoluene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Acetone	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Benzene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Bromobenzene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Bromochloromethane	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Bromodichloromethane	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Bromoform	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Bromomethane	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Carbon disulfide	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Carbon tetrachloride	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Chlorobenzene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Chloroethane	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Chloroform	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Chloromethane	ND		5.0	µg/L	1	5/29/2013 02:46 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM

Project: Whirlpool - Green Springs, OH -SWP; PN 60299534

Work Order: 1305490

Sample ID: TB-052213

Lab ID: 1305490-21

Collection Date: 5/22/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Dibromochloromethane	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Dibromomethane	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Ethylbenzene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Isopropylbenzene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
m,p-Xylene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Methylene chloride	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Naphthalene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
n-Butylbenzene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
n-Propylbenzene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
o-Xylene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
sec-Butylbenzene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Styrene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
tert-Butylbenzene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Tetrachloroethene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Toluene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Trichloroethene	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	5/29/2013 02:46 PM
Vinyl chloride	ND		2.0	µg/L	1	5/29/2013 02:46 PM
Xylenes, Total	ND		5.0	µg/L	1	5/29/2013 02:46 PM
<i>Surr: 4-Bromofluorobenzene</i>	96.0		61-131	%REC	1	5/29/2013 02:46 PM
<i>Surr: Dibromofluoromethane</i>	97.1		87-126	%REC	1	5/29/2013 02:46 PM
<i>Surr: Toluene-d8</i>	104		84-111	%REC	1	5/29/2013 02:46 PM

Note:

ALS Environmental

Date: 23-Aug-13

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
Work Order: 1305490

Analytical Comments

Method	Type:	SampID	SeqNo	Analysis	Comments
Batch <u>16886</u>					
	Analysis	1305490-14A	617647	PCBs	Elevated detection limit was due to matrix interference
Batch <u>R99836</u>					
	Analysis	1305490-05C	627995	Organochlorine Pesticides	Ran at 20X dilution; Surrogate diluted out
	Analysis	1305490-07C	627997	Organochlorine Pesticides	Ran at 5X dilution
Batch <u>R99840a</u>					
	Analysis	1305490-05C	628155	Herbicides	Analyzed at 20X dilution, surrogate diluted out
	Analysis	1305490-06C	628156	Herbicides	Analyzed at 10X dilution, surrogate diluted out
	Analysis	1305490-07C	628157	Herbicides	Analyzed at 5X dilution

Client: AECOM

QC BATCH REPORT

Work Order: 1305490

Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

Batch ID: **16886**

Instrument ID: **GC9**

Method: **SW8082**

MBLK		Sample ID: MBLK-16886-16886			Units: mg/Kg		Analysis Date: 5/30/2013 08:19 AM			
Client ID:		Run ID: GC9_130530A			SeqNo: 617623		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
<i>Surr: Decachlorobiphenyl</i>	0.0922	0	0.1	0	92.2	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0926	0	0.1	0	92.6	34-145	0			

LCS		Sample ID: LCS-16886-16886			Units: mg/Kg		Analysis Date: 5/30/2013 08:19 AM			
Client ID:		Run ID: GC9_130530A			SeqNo: 617624		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.165	0.10	2	0	108	50-133	0			
<i>Surr: Decachlorobiphenyl</i>	0.095	0	0.1	0	95	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.0938	0	0.1	0	93.8	34-145	0			

MS		Sample ID: 1305490-17AMS			Units: mg/Kg		Analysis Date: 5/30/2013 08:19 AM			
Client ID: ASTW-S1-0001		Run ID: GC9_130530A			SeqNo: 617639		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.302	0.10	2.004	0	115	31-150	0			
<i>Surr: Decachlorobiphenyl</i>	0.0986	0	0.1002	0	98.4	22-156	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.09118	0	0.1002	0	91	34-145	0			

MSD		Sample ID: 1305490-17AMSD			Units: mg/Kg		Analysis Date: 5/30/2013 08:19 AM			
Client ID: ASTW-S1-0001		Run ID: GC9_130530A			SeqNo: 617640		Prep Date: 5/29/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	2.196	0.099	1.988	0	110	31-150	2.302	4.7	53	
<i>Surr: Decachlorobiphenyl</i>	0.09105	0	0.0994	0	91.6	22-156	0.0986	7.96		
<i>Surr: Tetrachloro-m-xylene</i>	0.08807	0	0.0994	0	88.6	34-145	0.09118	3.47		

The following samples were analyzed in this batch:

1305490-09A	1305490-10A	1305490-11A
1305490-12A	1305490-13A	1305490-14A
1305490-15A	1305490-16A	1305490-17A
1305490-18A	1305490-19A	1305490-20A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: 16814 Instrument ID: ICP3 Method: SW6010B

MBLK		Sample ID: mblk-16814-16814			Units: mg/Kg		Analysis Date: 5/24/2013 09:43 PM			
Client ID:		Run ID: ICP3_130524A			SeqNo: 615253		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cobalt	ND	5.0								
Nickel	ND	5.0								

LCS		Sample ID: lcs-16814-16814			Units: mg/Kg		Analysis Date: 5/24/2013 09:49 PM			
Client ID:		Run ID: ICP3_130524A			SeqNo: 615254		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cobalt	102.2	5.0	100	0	102	80-120	0			
Nickel	102.2	5.0	100	0	102	80-120	0			

LCSD		Sample ID: lcscd-16814-16814			Units: mg/Kg		Analysis Date: 5/24/2013 09:55 PM			
Client ID:		Run ID: ICP3_130524A			SeqNo: 615255		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cobalt	102.7	5.0	100	0	103	80-120	102.2	0.488	20	
Nickel	102.4	5.0	100	0	102	80-120	102.2	0.196	20	

MS		Sample ID: 1305490-17a ms			Units: mg/Kg		Analysis Date: 5/25/2013 02:05 PM			
Client ID: ASTW-S1-0001		Run ID: ICP3_130524B			SeqNo: 615374		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cobalt	98.33	5.0	99.62	4.91	93.8	75-125	0			
Nickel	106.2	5.0	99.62	12.26	94.3	75-125	0			

MSD		Sample ID: 1305490-17a msd			Units: mg/Kg		Analysis Date: 5/25/2013 02:11 PM			
Client ID: ASTW-S1-0001		Run ID: ICP3_130524B			SeqNo: 615375		Prep Date: 5/24/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cobalt	97.06	5.0	99.66	4.91	92.5	75-125	98.33	1.3	20	
Nickel	105.8	5.0	99.66	12.26	93.9	75-125	106.2	0.336	20	

The following samples were analyzed in this batch:

1305490-09a	1305490-10a	1305490-11a
1305490-12a	1305490-13a	1305490-14a
1305490-15a	1305490-16a	1305490-17a
1305490-18a	1305490-19a	1305490-20a

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99362** Instrument ID: **VMS1** Method: **SW8260**

MBLK	Sample ID: MBLK-R99362	Units: $\mu\text{g/L}$				Analysis Date: 5/29/2013 08:48 AM				
Client ID:	Run ID: VMS1_130529A	SeqNo: 616653			Prep Date:	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	5.0								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	5.0								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Work Order: 1305490
Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: R99362	Instrument ID: VMS1	Method: SW8260					
Dibromomethane	ND	5.0					
Dichlorodifluoromethane	ND	5.0					
Ethylbenzene	ND	5.0					
Hexachlorobutadiene	ND	5.0					
Isopropylbenzene	ND	5.0					
m,p-Xylene	ND	5.0					
Methyl tert-butyl ether	ND	5.0					
Methylene chloride	ND	5.0					
Naphthalene	ND	5.0					
n-Butylbenzene	ND	5.0					
n-Propylbenzene	ND	5.0					
o-Xylene	ND	5.0					
p-Isopropyltoluene	ND	5.0					
sec-Butylbenzene	ND	5.0					
Styrene	ND	5.0					
tert-Butylbenzene	ND	5.0					
Tetrachloroethene	ND	5.0					
Toluene	ND	5.0					
trans-1,2-Dichloroethene	ND	5.0					
trans-1,3-Dichloropropene	ND	5.0					
Trichloroethene	ND	5.0					
Trichlorofluoromethane	ND	5.0					
Vinyl chloride	ND	2.0					
Xylenes, Total	ND	5.0					
<i>Surr: 4-Bromofluorobenzene</i>	49.51	0	50	0	99	61-131	0
<i>Surr: Dibromofluoromethane</i>	51.03	0	50	0	102	87-126	0
<i>Surr: Toluene-d8</i>	51.14	0	50	0	102	84-111	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99362** Instrument ID: **VMS1** Method: **SW8260**

LCS		Sample ID: LCS-R99362			Units: µg/L		Analysis Date: 5/29/2013 08:18 AM			
Client ID:		Run ID: VMS1_130529A			SeqNo: 616652		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	58.19	5.0	50	0	116	48.4-140	0			
1,1-Dichloroethene	56.99	5.0	50	0	114	45.5-150	0			
1,2-Dichloroethane	56.09	5.0	50	0	112	46.5-141	0			
1,3-Dichlorobenzene	50.72	5.0	50	0	101	42.5-133	0			
1,4-Dichlorobenzene	50.1	5.0	50	0	100	38.9-136	0			
Benzene	54.85	5.0	50	0	110	50.7-134	0			
Carbon tetrachloride	62.79	5.0	50	0	126	45.5-143	0			
Chlorobenzene	52.87	5.0	50	0	106	45-133	0			
Chloroform	55.24	5.0	50	0	110	52.4-136	0			
cis-1,2-Dichloroethene	53.02	5.0	50	0	106	49.7-138	0			
Ethylbenzene	54.18	5.0	50	0	108	37.8-145	0			
m,p-Xylene	113.2	5.0	100	0	113	25.1-163	0			
Styrene	59.66	5.0	50	0	119	26.3-172	0			
Tetrachloroethene	50.99	5.0	50	0	102	37.3-139	0			
Toluene	56.93	5.0	50	0	114	44-135	0			
Trichloroethene	55.14	5.0	50	0	110	46.9-134	0			
<i>Surr: 4-Bromofluorobenzene</i>	48.15	0	50	0	96.3	61-131	0			
<i>Surr: Dibromofluoromethane</i>	50.73	0	50	0	101	87-126	0			
<i>Surr: Toluene-d8</i>	52.3	0	50	0	105	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99362** Instrument ID: **VMS1** Method: **SW8260**

MS		Sample ID: 1305506-01A MS			Units: µg/L		Analysis Date: 5/29/2013 11:18 AM			
Client ID:		Run ID: VMS1_130529A			SeqNo: 616658		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.91	5.0	50	0	97.8	47.4-141	0			
1,1-Dichloroethene	49.09	5.0	50	0	98.2	56.3-140	0			
1,2-Dichloroethane	48.56	5.0	50	0	97.1	50.1-139	0			
1,3-Dichlorobenzene	45.92	5.0	50	0	91.8	53-127	0			
1,4-Dichlorobenzene	44.43	5.0	50	0	88.9	53.4-129	0			
Benzene	47.5	5.0	50	0	95	52.8-136	0			
Carbon tetrachloride	51.26	5.0	50	0	103	48.1-141	0			
Chlorobenzene	45.53	5.0	50	0	91.1	52.4-132	0			
Chloroform	48.85	5.0	50	0	97.7	52.9-136	0			
cis-1,2-Dichloroethene	47.24	5.0	50	0	94.5	63.5-128	0			
Ethylbenzene	47.11	5.0	50	0	94.2	46.5-146	0			
m,p-Xylene	98.54	5.0	100	0	98.5	38.2-167	0			
Styrene	49.82	5.0	50	0	99.6	20.9-184	0			
Tetrachloroethene	44.3	5.0	50	0	88.6	55.2-134	0			
Toluene	50.5	5.0	50	0	101	45.1-138	0			
Trichloroethene	47.32	5.0	50	0	94.6	52.8-133	0			
<i>Surr: 4-Bromofluorobenzene</i>	49.71	0	50	0	99.4	61-131	0			
<i>Surr: Dibromofluoromethane</i>	50.93	0	50	0	102	87-126	0			
<i>Surr: Toluene-d8</i>	52.45	0	50	0	105	84-111	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
 Work Order: 1305490
 Project: Whirlpool - Green Springs, OH -SWP; PN 6029953

QC BATCH REPORT

Batch ID: **R99362** Instrument ID: **VMS1** Method: **SW8260**

MSD		Sample ID: 1305506-01A MSD			Units: µg/L		Analysis Date: 5/29/2013 11:48 AM			
Client ID:		Run ID: VMS1_130529A			SeqNo: 616659		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	59.05	5.0	50	0	118	47.4-141	48.91	18.8	20	
1,1-Dichloroethene	58.16	5.0	50	0	116	56.3-140	49.09	16.9	20	
1,2-Dichloroethane	58.09	5.0	50	0	116	50.1-139	48.56	17.9	20	
1,3-Dichlorobenzene	51.66	5.0	50	0	103	53-127	45.92	11.8	20	
1,4-Dichlorobenzene	50.1	5.0	50	0	100	53.4-129	44.43	12	20	
Benzene	56.32	5.0	50	0	113	52.8-136	47.5	17	20	
Carbon tetrachloride	61.13	5.0	50	0	122	48.1-141	51.26	17.6	20	
Chlorobenzene	53.14	5.0	50	0	106	52.4-132	45.53	15.4	20	
Chloroform	58.48	5.0	50	0	117	52.9-136	48.85	17.9	20	
cis-1,2-Dichloroethene	56.32	5.0	50	0	113	63.5-128	47.24	17.5	20	
Ethylbenzene	53.39	5.0	50	0	107	46.5-146	47.11	12.5	20	
m,p-Xylene	111.8	5.0	100	0	112	38.2-167	98.54	12.6	20	
Styrene	58.74	5.0	50	0	117	20.9-184	49.82	16.4	20	
Tetrachloroethene	49.88	5.0	50	0	99.8	55.2-134	44.3	11.8	20	
Toluene	58.65	5.0	50	0	117	45.1-138	50.5	14.9	20	
Trichloroethene	55.22	5.0	50	0	110	52.8-133	47.32	15.4	20	
<i>Surr: 4-Bromofluorobenzene</i>	50.05	0	50	0	100	61-131	49.71	0.682		
<i>Surr: Dibromofluoromethane</i>	51.63	0	50	0	103	87-126	50.93	1.37		
<i>Surr: Toluene-d8</i>	52.12	0	50	0	104	84-111	52.45	0.631		

The following samples were analyzed in this batch:

1305490-21A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: AECOM
Project: Whirlpool - Green Springs, OH -SWP; PN 60299534
WorkOrder: 1305490

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
%	
% of sample	
µg/Kg	
µg/Kg-dry	
µg/L	
mg/Kg	
mg/Kg-dry	
mg/L	

Sample Receipt Checklist

Client Name: **AECOM-CINCINNATI**

Date/Time Received: **22-May-13 00:00**

Work Order: **1305490**

Received by: **CEG**

Checklist completed by: Chris Gibson 23-May-13
eSignature Date

Reviewed by: Rob Nieman 23-Aug-13
eSignature Date

Matrices: Soil/Water

Carrier name: Client

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

Appendix R

References

References

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