A. Environmental Hazardous Material Report

EEE Consulting, Inc.
Environmental, Engineering and Educational Solutions

August 1, 2013

Mr. Brett Hayes, EIT
Design Manager
NAVFAC Washington
Capital Improvements | Gold IPT
1314 Harwood Street, Bldg. 212, 3rd Floor
Washington Navy Yard, DC 20374-5018

Re: Quantico Marine Corps Base
P-1406 Air Traffic Control Transmitter/Receiver Relocation
Final Hazardous Material Removal Survey & Report
EEE Project No. 13-107

Dear Mr. Hayes,

EEE Consulting, Inc. (EEE) is pleased to submit this final report for the Hazardous Materials Removal Survey conducted at Buildings 3248 and 3248B for the P-1406 Air Traffic Control Transmitter/Receiver Relocation project at the Quantico Marine Corps Base. The Hazardous Materials Removal Survey included: a National Emissions Standards for Hazardous Air Pollutants (NESHAPS) Asbestos-Containing Materials (ACM) inspection; a lead paint inspection; an inventory of all lighting ballasts and other electrical transformer units that may potentially contain polychlorinated biphenyls (PCB); an investigation and inventory of fluorescent light tubes and switches that may potentially contain mercury; an inventory of containers that may potentially contain refrigerants; and an investigation of potential soil contamination due to any oil or fuel leakage from transformers or petroleum storage tanks. EEE performed the site reconnaissance on May 29, 2013. Buildings 3248 and 3248B are steel frame structures with steel siding and roof constructed on concrete slab foundations.

The objective of the survey was to identify any hazardous materials or substances that may need to be addressed when the buildings are demolished. Knowledge of the hazardous materials present in the buildings will ensure the proper handling and disposal of such materials, before and during the demolition process, in accordance with all state and federal regulations.

Based on the site reconnaissance performed on May 29, 2013, the following hazardous materials/substances were identified:

- Asbestos-containing drywall joint compound, floor tile mastic, window glazing and boiler gasket
- Lead-containing paint on building components
- Fluorescent light bulbs
- Light ballasts potentially containing PCBs

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- Refrigerant in a Packaged Terminal Air-conditioning unit
- Possible underground storage tank which stored heating oil to fuel a furnace and water heater

For purposes of this report, a hazardous material is any material that could be defined as such according to the Resource Conservation and Recovery Act (RCRA), Toxic Substance Control Act (TSCA) or Department of Transportation (DOT) or equivalent state authorized program. A detailed discussion of each hazardous material and the associated regulation(s) is provided below.

Asbestos-containing Materials

The ACM survey was conducted in accordance with the EPA's "National Emission Standards for Hazardous Air Pollutants; Asbestos NESHAP Final Rule, 40 CFR 61" and OSHA's "Asbestos in Construction Standard, 29 CFR 1926.1101".

In accordance with the Asbestos NESHAP, EEE conducted a thorough inspection of the buildings 3248 and 3248B. The ACM survey included the physical assessment and sampling of suspect ACM from accessible areas of the buildings. The buildings were inspected for friable and non-friable suspect ACM. The asbestos inspector identified and sampled the suspect ACM by Homogeneous Areas. A Homogeneous Area contains material that is uniform in texture and appearance, was installed at one time, and is unlikely to consist of more than one type, or formulation, of material. The inspector physically touched each suspect asbestos-containing building material (ACBM) to determine if it was friable. The EPA Asbestos NESHAP standard defines friable ACM as any material containing more than one (1) percent asbestos that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Non-friable ACM is any material that contains more than one (1) percent asbestos and cannot be crumbled, pulverized, or reduced to powder by hand pressure.

The Asbestos NESHAP further designates Non-friable ACM into two categories. Category I non-friable ACM includes asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products that contain more than one percent asbestos. Floor tile and other construction mastics are generally considered by the EPA as Category I Non-friable ACM. Category II Non-friable ACM is any material, excluding Category I Non-friable ACM, containing more than one percent asbestos. These types of materials may include asbestos cement board (a.k.a. "transite"), cement siding or roofing shingles, laboratory countertops, and other similar products.

Homogenous Areas of suspect ACM observed at Buildings 3248 and 3248B included: drywall and joint compound; cloth backing on fiberglass wall and ceiling batts insulation; door caulk; floor tile and mastic; ceiling tile; fire door insulation; window glazing; and boiler gasket. Bulk samples were collected from each suspect ACM Homogenous Area at random locations, bagged and assigned a unique sample identification number. Bulk samples of suspect ACM were submitted to Environmental Hazards Services, LLC a National Voluntary Laboratory Accreditation Program (NVLAP) and American Industrial Hygiene Association (AIHA)-accredited asbestos analytical laboratory, located in Richmond, Virginia. The bulk samples were analyzed for asbestos content using Polarized Light Microscopy (PLM) with dispersion staining as prescribed in EPA 40 CFR Part 763.

Results of the Suspect ACM Sample Analysis

The following table summarizes the homogeneous sampling areas identified within each building, and details the results of the samples collected from each homogenous material. Copies of laboratory analytical data sheets are attached in Attachment A. All sampling collection sites are identified on the diagrams included as Attachment B.

Suspect ACM Sampling Results – Buildings 3248 and 3248B
May 29, 2013

EPA Category	Material Description	Photo	Sample ID	Sample Result
Building 3248				
Non-ACM*	Wallboard and joint compound		3248-A1 3248-A2 3248-A3	NAD Trace <1% Chrysotile Trace <1% Chrysotile **2% Chrysotile asbestos present in the joint compound material
Non-ACM Category I Non-friable	12”x12” tan floor tile with brown specks Black floor tile mastic		3248-B1 Tile 3248-B2 Tile 3248-B3 Tile 3248-B1 Mastic 3248-B2 Mastic 3248-B3 Mastic	NAD NAD NAD 2% Chrysotile Did not analyze Did not analyze
Non-ACM	2’x4’ white ceiling tile with wormholes		3248-C1 3248-C2	NAD NAD

EPA Category	Material Description	Photo	Sample ID	Sample Result
Non-ACM	Fire door insulation (interior of door)		3248-D1	NAD
Non-ACM*	White window glazing		3248-E1	Trace <1% Chrysotile
Friable ACM	White boiler gasket at blower motor flange		3248-F1	68% Chrysotile
Building 3248B				
Non-ACM	Wallboard and joint compound		3248B-A1 3248B-A2 3248B-A3	NAD NAD NAD

EPA Category	Material Description	Photo	Sample ID	Sample Result
Non-ACM	Cloth backing on batts fiberglass wall and ceiling insulation		3248B-B1 3248B-B2 3248B-B3	NAD NAD NAD
Non-ACM	White exterior caulking at door		3248B-C1 3248B-C2 3248B-C3	NAD NAD NAD
Non-ACM	Gray exterior window caulking		3248B-D1 3248B-D2 3248B-D3	NAD NAD NAD

NAD = indicates no asbestos detected in the sample. Method limit of detection is 1%.
*Material contains less than one percent (1%) asbestos and is not defined by OSHA or EPA as an ACM. However, disturbance of materials containing trace (<1%) concentrations of asbestos must still be managed under the general provisions of the OSHA Asbestos in Construction Standard, 29 CFR 1926.1101.
**Joint compound layer was identified as ACM when analyzed separate from wallboard. However, composite analysis of wallboard and joint compound, allowed under NESHAPs, indicates wallboard system is not ACM.

Friable ACM

The EPA Asbestos NESHAP standard defines friable ACM as any material containing more than 1 percent asbestos that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Friable asbestos-containing boiler gasket material located at the blower motor flange was identified on the furnace unit in Building 3248. This material appeared to be in good condition at the time of the inspection. There is approximately one (1) square foot of this material on the furnace unit. Additional asbestos-containing gasket materials may be present on the furnace unit but were not accessible at the time of the inspection without dismantling the unit. The furnace unit should be dismantled prior to demolition of the building and the ACM gaskets removed and disposed as friable ACM waste.

There were no friable ACMs identified in Building 3248B.

Non-Friable ACM

The EPA Asbestos NESHAP standard defines non-friable ACM as any material containing more than 1 percent asbestos that, when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure. EPA Category I Non-friable asbestos-containing floor tile mastic was identified under the 12"x12" tan floor tile in Building 3248. The asbestos-containing floor tile mastic material appeared to be in good condition at the time of the survey and was covered by a layer of non-ACM floor tile. There is approximately 1,350 square feet of this material located on the floor of Building 3248. This material need not be removed prior to building demolition since it is Category I non-friable ACM that is in good condition. However, the asbestos-containing floor tile mastic must be removed from the building if the building is to be intentionally burned or the concrete slab floor will be recycled.

There were no non-friable ACMs identified in Building 3248B.

Trace - <1% Asbestos

Bulk samples of wallboard/joint compound and window glazing collected from Building 3248 were identified by laboratory analysis as containing less than one percent (1%) asbestos. Building materials containing trace concentrations, less than or equal to one percent (≤1%), asbestos are not considered asbestos-containing building materials (ACBM) according to EPA's definition and are not subject to the requirements of the EPA Asbestos NESHAP for renovation or demolition. However, additional worker protection, air monitoring, worker general awareness training and disposal methods may be required during any renovation or demolition activities that involve the disturbance of these materials in accordance with the Occupational Safety and Health Administration (OSHA) standards. The removal/demolition of a material containing one percent or less of asbestos is considered "Unclassified Asbestos Work" provided the Permissible Exposure Levels (PEL's) are not exceeded. This means that only certain Work Practice Standard's, Engineering Control Obligations, and Prohibitions pertain including, but may not be limited to, the ones defined in the OSHA standards under 29 CFR 1926.1101 and clarified in the August 13, 1999 OSHA letter regarding the Requirements for demolition operations involving material containing (≤1%) asbestos.

Asbestos NESHAP requires that each owner or operator of a demolition or renovation activity involving Regulated Asbestos Containing Material (RACM) remove all such material from a facility being demolished or renovated before any activity begins that would break up, dislodge, or similarly disturb the material or preclude access to the material for subsequent removal. Building materials containing one percent or less (≤1%) of asbestos are not considered RCAM under the EPA Asbestos NESHAP and may be included with the building demolition.

The bulk samples of wallboard/joint compound were identified to contain less than one percent asbestos when analyzed as a composite. However, when analyzed as two separate layers, no asbestos was identified in the drywall layer and the joint compound was identified as containing 2% chrysotile asbestos. When joint compound and/or tape are applied to wallboard it becomes a part of the wallboard and in effect becomes one material forming a system. Therefore, where a demolition or renovation impacts such a wall system, a composite analysis of the wall system (percent of asbestos in the joint

compound, tape and wallboard) may be conducted. Since the joint compound on the wallboard at Building 3248 is an integral part of the wallboard system and the composite sample did not contain more than one percent asbestos, the wallboard system is not an RACM.

Future renovation or demolition may expose or release suspect asbestos-containing building materials that were inaccessible at the time of this inspection. If this should occur, renovation or demolition activities should stop until the suspect asbestos-containing building materials are sampled by an EPA-accredited asbestos inspector and analyzed by a laboratory accredited by NVLAP in asbestos identification.

Lead Paint

The lead paint inspection was conducted to determine lead content in painted building components that might be impacted by future demolition of the buildings. The survey included the identification of painted building components within each structure and the sampling and analysis of the paint to determine the lead content.

Activities involving lead paint are regulated differently by various regulatory agencies. HUD and EPA regulate lead-based paint for target housing and child occupied facilities. Lead-based paint, as defined by HUD and EPA, is any paint, varnish, shellac, or other coating that contains lead equal to or greater than 0.5% lead by weight in dry film when measured by laboratory analysis. The U.S. Occupational Safety and Health Administration (OSHA) regulate employee exposures to airborne lead during construction activities under 29 CFR 1926.62, the OSHA Lead in Construction Standard. This standard does not set a minimum amount of lead in a painted surface that triggers compliance with the standard. Specifically, the standard does not correlate the amount of lead contained in the paint matrix with airborne levels of lead generated by disturbing the paint matrix.

The OSHA Lead Standard regulates lead exposures based on the type of construction activity to be performed and the potential to create airborne lead dust. The standard indicates that worker exposure to airborne lead must be maintained below the Permissible Exposure Limit (PEL) 50 $\mu g/m^3$of lead. Construction environments where the PEL is exceeded require the implementation of engineering and work practice controls and provisions for personal protection equipment and hygiene facilities.

<u>Paint Sampling Procedures and Results</u>

To identify the presence of lead-containing paint, bulk paint chip samples were collected from various building components, including: steel support beams; doors; and door jambs. Sampling locations were determined and a razor knife or paint scraper was used to scrape or lift the paint from the substrate. A minimum of four square inches of paint was attempted to be removed from the substrate. Paint chip samples were submitted to Environmental Hazards Services, LLC an American Industrial Hygiene Association (AIHA) accredited laboratory, located in Chesterfield, Virginia. Paint chip samples were analyzed for lead content using Atomic Absorption (AA) following EPA method No. SW846 7000B. The results of the paint chip samples submitted for analysis are detailed in the following table. Copies of analytical data sheets are included in Attachment A with diagrams showing the sampling locations included in Attachment B.

Paint Chip Sampling Results – Buildings 3248 and 3248B
May 29, 2013

Description	Photo	Sample ID	Sample Result % lead by weight
Building 3248			
Tan paint on doors		3248-Pb1	0.0075%
Tan paint on door jambs		3248-Pb2	0.0079%
White paint on steel support beams		3248-Pb3	0.0070%
Building 3248B			
White paint on steel support beams		3248B-Pb1	0.067%

Description	Photo	Sample ID	Sample Result % lead by weight
Red paint on steel support beams		3248B-Pb2	<0.0046%
Cream paint on metal doors and door jamb		3248B-Pb3	0.25%

Recommendations

Detectable levels of lead were identified in paint chip samples collected from all surfaces sampled with the exception of the red paint on the steel support beam in Building 3248B. The concentration of lead in the paint samples collected indicates the paint on the doors, door jambs and white painted steel support beams of both buildings are lead-containing paint and not lead-based paint, since the lead concentration was below 0.5% lead by weight. The paint on most all of the surfaces within the buildings was in poor condition exhibiting evidence of delaminated and weathered paint. The OSHA Lead Exposure in Construction Standard (29 CFR 1926.62) must be followed when conducting any maintenance or construction activity that will affect the matrix of the painted surfaces. The OSHA standard applies whenever construction, repair, renovation (including painting and decoration), or demolition activities are undertaken. The definition also includes, but is not limited to:

- Demolition or salvage where lead-containing materials are present;
- Removal or encapsulation of lead-containing materials;
- New construction, alteration, repair or renovation of structures, substrates, or portions of structures or substrates containing lead;
- Installation of lead-containing products;
- Lead contamination emergency cleanup;
- Transportation, disposal, storage, or containment of lead or lead-containing materials at a construction site;
- Maintenance operations associated with construction activities.

Since detectable concentrations of lead were identified on painted surfaces at the buildings, workers who prepare lead-containing painted surfaces for repainting, renovation or demolition must be protected from lead exposure. Dust containing hazardous concentrations of lead may be generated during scraping or cutting materials coated with lead-containing or lead-based paint. Torching of these materials may produce lead oxide fumes. Therefore, air monitoring, respiratory protection and specific engineering controls may be required during the renovation or demolition of materials coated with lead-containing or lead-based paint.

There are currently no federal or state regulations that require the paint to be removed prior to demolition of the buildings. However, if demolition activity will affect any surfaces where lead-containing materials are present, the workers conducting the demolition must be protected against exposure to airborne lead.

If the building demolition project generates paint waste, specifically paint waste generated from direct removal of paint layers on building components, the responsible party must determine whether the paint waste is hazardous. If deemed hazardous, the waste must be managed according to the Resource Conservation and Recovery Act (RCRA) and an EPA identification number must be obtained and a waste manifest must be used to track the waste's transport offsite for treatment, storage, or disposal (40 CFR 262 "Standards Applicable to Generators of Hazardous Waste").

Universal Waste (Fluorescent Light Tubes and Mercury-Containing Switches)

EEE observed an estimated total of 100 intact fluorescent tubes in Building 3248 and one intact fluorescent tube in Building 3248B. Glass fragments of broken fluorescent tubes were observed on the floors of both Buildings. No mercury-containing switches were identified at the Buildings at the time of the site inspection. The intact fluorescent light tubes are required to be managed as Universal Waste in accordance with 40 CFR 273. The glass fragments of the broken tubes should be cleaned from the floor surfaces using stiff paper or cardboard. Sweeping or vacuuming to collect the glass fragments should not be conducted to avoid the spread of mercury-containing powder or mercury vapor. The glass fragments should be placed in a closed container and managed as Universal Waste along with the intact light tubes. Following cleanup of the glass fragments, the floor surfaces should be damp mopped to cleanup residual mercury-containing powder that may be present.

Fluorescent light tubes in light fixtures at Building 3248.	Broken fluorescent light tubes on floor of Building 3248B.

EEE did not identify any switches or thermostats in the buildings that are likely to contain mercury.

Light Ballasts Containing PCBs

EEE observed an estimated 33 light fixtures in Building 3248 and 10 light fixtures in Building 3248B. Light ballasts are electrical devices for starting and regulating fluorescent and discharge lamps. The ballasts could contain PCBs, depending on the date of their manufacture. All light ballasts manufactured since 1978, which do not contain PCBs, should be marked by the manufacturer with the statement, "No PCBs". If the "No PCBs" mark is not present on the light ballast, the owner shall assume they contain PCBs. Ballasts marked "No PCBs" may be disposed in a landfill as solid waste.

EEE inspected light ballasts from several different types of fluorescent light fixtures in the buildings. The ballasts in the light fixtures of both buildings were not labeled as Non-PCB. Therefore, EEE recommends all ballasts be handled as containing PCBs. EEE estimates the total volume of PCB containing ballasts will be less than one 55-gallon drum. EEE recommends the PCB-containing ballasts be handled by a qualified vendor and disposed in accordance with the Toxic Substances Control Act (40 CFR 700-799).

Refrigerant in White Goods and Air Conditioning Units

EEE observed a Packaged Terminal Air-conditioning (PTAC) unit in Building 3248B during the assessment. White goods observed in Building 3248 included a drinking water fountain with R12 refrigerant.

PTAC Unit in Building 3248B.

White goods and air conditioning units can potentially contain chlorofluorocarbons (CFCs), which are regulated under the Clean Air Act (CAA) Section 608, Refrigerant Recycling Rule. According to the Virginia Solid Waste Management Regulations, white goods can be taken to a sanitary landfill for disposal provided all appliances are free of CFCs and PCBs prior to disposal. EEE recommends the refrigerant be removed from the appliances in accordance with Section 608 of the CAA and be properly recycled or disposed.

Underground Petroleum Storage Tank

EEE observed a furnace and water heater in Building 3248 that appears to have been fueled by heating oil, which may have been stored in an underground storage tank (UST) or an aboveground storage tank (AST). Supply lines protrude through the concrete slab and connect to oil filters before connecting into the burners of the furnace and water heater units. A return line runs from the burners back into the concrete slab. EEE investigated the areas surrounding the building for a UST fill port and vent pipe but none were identified. It is possible a UST exists at the site and the fill port and vent pipe was removed, making it difficult to identify the location of the UST. No obvious indicators that a UST had been removed from the site were observed during the site investigation. If a UST is discovered during site excavation, remaining fuel oil should be removed from the tank and recycled and the tank should be removed and disposed. Soil samples should be collected below the tank and the sidewalls of the tank excavation pit for analysis of total petroleum hydrocarbons as part of tank closure. It is possible heating oil was stored in an AST and was removed from the site. No AST was observed at the site during the investigation and no obvious indicators of its likely location were obaserved.

Furnace showing supply and return lines protruding from the slab.	Water heater showing supply and return lines protruding from the slab.

Soil investigation for Petroleum and PCB Impacted Soils

EEE investigated the soil surfaces around the buildings for obvious indications of petroleum and PCB spills. EEE did not identify any obvious areas of petroleum spills, stained soils or stressed vegetation around the buildings. The concrete floor of the small mechanical room at the northwest corner of Building 3248 was stained with oil, likely from small spills or leaks from the fuel-fired furnace and water heater fuel lines, but the leaks did not appear to have impacted the soil outside the building.

Three soil borings were conducted outside the buildings to investigate potential soil contamination due to any oil or fuel leakage not readily identifiable from the surface. Soil borings were conducted outside the northwest (B1) and northeast (B3) corners of Building 3248 and outside the southwest corner of Building 3248B (B2). The borings were advanced to a depth of approximately five (5) feet below ground surface using stainless steel hand augers. No obvious petroleum odors or staining was observed at any of the soil borings. Discrete soil samples were collected at depths of approximately one foot and five feet below ground surface from each boring and placed in glass sample jars. The samples were submitted to Air,

Water and Soil Laboratory in Richmond, Virginia for analysis of total petroleum hydrocarbon oil range organics (TPH-ORO) in accordance with EPA Method SW8015C, semi-volatile organic compounds (SVOCs) in accordance with EPA Method SW8270D, and PCBs in accordance with EPA Method SW8082A.

Based on the Virginia Solid Waste Management Regulations (VSWMR) and the Virginia Hazardous Waste Management Regulations (VHWMR), the results of the soil analyses were used to classify the soils as Clean Fill. For this report and in accordance with the VSWMR, the term "Clean Fill" includes soils impacted by a release of petroleum products where the concentrations of petroleum constituents are below the criteria set in 9VAC20-81-660.

No detectable SVOCs or PCBs were identified in any of the soil samples collected from the site. Total petroleum hydrocarbons in the oil range were identified at concentrations just above the analytical method limit of detection in the soil samples collected just below the surface at soil borings B1 and B2. No detectable TPH-ORO was identified in the soil samples collected just below the surface at boring B3 or five feet below ground surface at borings B1, B2 and B3. As such, all of the soil samples submitted for analysis met the VSWMR Clean Fill criteria. The following table summarizes the results of the soil borings. A copy of the laboratory analytical report is included in Attachment A. Boring locations are included on the site drawing in Attachment B.

Results of Soil Samples
P-1406 Air Traffic Control Transmitter/Receiver Relocation
May 29, 2013

Sample ID		**B1A**	**B1B**	**B2A**	**B2B**	**B3A**	**B3B**
Sample Depth		**@0-1'**	**@4-5'**	**@0-1'**	**@4-5'**	**@0-1'**	**@4-5'**
Analyte	**Units**	**Results**					
TPH-ORO	mg/kg	10.7	<10.0	17.4	<10.0	<10.0	<10.0
SVOCs	mg/kg	<83.3	<83.3	<83.3	<83.3	<83.3	<83.3
PCBs	mg/kg	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100

SUMMARY

Based on the May 29, 2013 site assessment, the following hazardous materials/substances were identified with Buildings 3248 and 3248B:

- *Asbestos-containing materials (ACM)* – Friable ACM must be removed prior to demolition; non-friable ACM may remain in the building during demolition unless the buildings will be intentionally burned or the materials are to be recycled.
- *Lead-containing Paint* – The paint containing lead identified on surfaces in the building may remain during building demolition. However, special worker protection measures and handling/disposal of paint waste under RCRA may be required if paint layer is to be removed separately as part of building demolition.
- *Fluorescent Light Bulbs* – These items should be removed and managed as Universal Waste.
- *Light ballasts containing PCBs* – These items should be collected and managed as PCB containing wastes under TSCA.

- *Refrigerant in Air Conditioning Unit* – The unit should have its refrigerant properly removed, and either recycled or disposed as CFC refrigerants. Once the refrigerant has been removed, the unit may be disposed at a sanitary landfill.
- *Possible Fuel Oil UST* – A fuel oil UST may remain at the site but its location could not be confirmed. If a UST is discovered during site excavation, remaining fuel oil should be removed from the tank and recycled and the tank should be removed and disposed. Soil samples should be collected below the tank and the sidewalls of the tank excavation pit for analysis of total petroleum hydrocarbons as part of tank closure.
- *Petroleum Impacted Soils* – No petroleum impacted soils identified as a result of samples collected at the site. However, if petroleum impacted soils are encountered during site excavation and grading, EEE recommends this waste be analyzed for disposal options and properly disposed in accordance with all applicable regulations.

We appreciate this opportunity to provide our environmental consulting services on this project and look forward to continued service. If you have any questions or need additional information, please feel free to contact us at (804) 442-3330.

Sincerely,
EEE Consulting, Inc.

Chad Smith
Senior Environmental Scientist

Sharon Ward Harless, QEP
Vice President

Attachments

Attachment A

Laboratory Analytical Reports

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 13-05-04122

Client: EEE Consulting Inc.
8525 Bell Creek Rd.
Mechanicsville, VA 23116

Received Date: 05/30/2013
Analyzed Date: 06/03/2013
Reported Date: 06/04/2013

Project/Test Address: 13-107; Quantico, VA

Client Number: 48-5796

Fax Number: 804-442-3334

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-05-04122-001	3248-A1		Gray Powder; Brown Fibrous; White Paint-Like; Inhomogeneous	NAD	20% Cellulose 1% Fibrous Glass 79% Non-Fibrous
No joint compound present.					
13-05-04122-002	3248-A2		White Powder; Brown Fibrous; White Granular; White Paint-Like; Inhomogeneous	Trace <1% Chrysotile	20% Cellulose 80% Non-Fibrous
			Total Asbestos:	Trace <1%	
2% Chrysotile asbestos is present in the joint compound-like material.					
13-05-04122-003	3248-A3		White Powder; Brown Fibrous; White Granular; White Paint-Like; Inhomogeneous	Trace <1% Chrysotile	20% Cellulose 80% Non-Fibrous
			Total Asbestos:	Trace <1%	
2% Chrysotile asbestos is present in the joint compound-like material.					
13-05-04122-004A	3248-B1	Tile	Tan Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-05-04122-004B	3248-B1	Mastic	Black Tar-Like; Homogeneous	2% Chrysotile	4% Cellulose 94% Non-Fibrous
			Total Asbestos:	2%	

Environmental Hazards Services, L.L.C

Client Number: 48-5796 Report Number: 13-05-04122

Project/Test Address: 13-107; Quantico, VA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-05-04122-005A	3248-B2	Tile	Tan Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-05-04122-005B	3248-B2	Mastic		Did Not Analyze (Positive Stop)	
13-05-04122-006A	3248-B3	Tile	Tan Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-05-04122-006B	3248-B3	Mastic		Did Not Analyze (Positive Stop)	
13-05-04122-007	3248-C1		Brown Fibrous; White Brittle; Inhomogeneous	NAD	65% Cellulose 5% Fibrous Glass 30% Non-Fibrous
13-05-04122-008	3248-C2		Brown Fibrous; White Brittle; Inhomogeneous	NAD	65% Cellulose 5% Fibrous Glass 30% Non-Fibrous
13-05-04122-009	3248-D1		Brown Fibrous; Homogeneous	NAD	96% Cellulose 4% Non-Fibrous
13-05-04122-010	3248-E1		Gray Brittle; Homogeneous	Trace <1% Chrysotile	100% Non-Fibrous
			Total Asbestos:	Trace <1%	
13-05-04122-011	3248-F1		Tan Fibrous; Homogeneous	68% Chrysotile	16% Cellulose 16% Non-Fibrous
			Total Asbestos:	68%	

Environmental Hazards Services, L.L.C

Client Number: 48-5796 Report Number: 13-05-04122

Project/Test Address: 13-107; Quantico, VA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-05-04122-012	3248B-A1		White Powder; Brown Fibrous; White Granular; Inhomogeneous	NAD	20% Cellulose 80% Non-Fibrous
13-05-04122-013	3248B-A2		White Powder; Brown Fibrous; White Granular; Inhomogeneous	NAD	20% Cellulose 80% Non-Fibrous
13-05-04122-014	3248B-A3		White Powder; Brown Fibrous; White Granular; Inhomogeneous	NAD	20% Cellulose 80% Non-Fibrous
13-05-04122-015	3248B-B1		Tan Fibrous; Yellow Adhesive; Inhomogeneous	NAD	91% Fibrous Glass 9% Non-Fibrous
13-05-04122-016	3248B-B2		Tan Fibrous; Yellow Adhesive; Inhomogeneous	NAD	91% Fibrous Glass 9% Non-Fibrous
13-05-04122-017	3248B-B3		Tan Fibrous; Yellow Adhesive; Inhomogeneous	NAD	91% Fibrous Glass 9% Non-Fibrous
13-05-04122-018	3248B-C1		White Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-05-04122-019	3248B-C2		White Adhesive; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 48-5796 Report Number: 13-05-04122

Project/Test Address: 13-107; Quantico, VA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-05-04122-020	3248B-C3		White Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-05-04122-021	3248B-D1		Gray Brittle; Homogeneous	NAD	100% Non-Fibrous
13-05-04122-022	3248B-D2		Gray Brittle; Homogeneous	NAD	100% Non-Fibrous
13-05-04122-023	3248B-D3		Gray Brittle; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 48-5796 Report Number: 13-05-04122

Project/Test Address: 13-107; Quantico, VA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials

QC Sample: 18-M11995-3

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Christian H. Schaible

Reviewed By Authorized Signatory:

Howard Varner
General Manager

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

23 PLM

EHS Laboratories™

Asbestos Chain-of-Custody

13-05-04122

Due Date: 06/04/2013 (Tuesday) AE

Environmental Hazards Services, LLC

www.leadlab.com
(800)347-4010
(804)275-4907 (fax)

7469 Whitepine Rd
Richmond, VA 23237

Company Name: ECC Consulting Inc. Address: 8525 Bell Creek Rd. City/State/Zip: Mechanicsville VA 23116

Phone: (804) 442-3330 Fax: (804) 442-3330 E-mail: CSmith@ecc-consulting.com Acct. Number:

Project Name / Testing Address: 13-107 City/State (Required): Quantico, VA

Collected by: Chas Smith Purchase Order Number:

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

____ 1 - Day ____ 2 - Day ✓ 3 - Day ____ Same Day (Must Call Ahead) ____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	3248-A1	5/29/13	X												positive stop
2	3248-A2		X												
3	3248-A3		X												
4	3248-B1		X												positive stop
5	3248-B2		X												
6	3248-B3		X												
7	3248-C1		X												positive stop
8	3248-C2		X												
9	3248-D1		X												
10	3248-E1		X												

Released by: Chas Smith	Signature: Chas Smith	Date/Time: 5/30/13 10:10am	
Received by: TStone	Signature: TStone	Date/Time: 5.30.13	

EHS Laboratories™

Asbestos Chain-of-Custody

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Environmental Hazards Services, LLC

www.leadlab.com
(800)347-4010
(804)275-4907 (fax)

7469 Whitepine Rd
Richmond, VA 23237

Company Name: EEE Consulting Inc. Address: 8525 Bell Creek Rd City/State/Zip: Mechanicsville VA 23116

Phone: (804) 442-3330 Fax: (804) 442-3334 E-mail: CSmith@eee-consulting.com Acct. Number:

Project Name / Testing Address: 13-107 City/State (Required): Quantico, VA

Collected by: Chas Smith Purchase Order Number:

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

____ 1 - Day ____ 2 - Day ✓ 3 - Day ____ Same Day (Must Call Ahead) ____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	3248-F1	5/29/13	X												
2	3248B-A1		X												positive stop
3	3248B-A2		X												
4	3248B-A3		X												
5	3248B-B1		X												positive stop
6	3248B-B2		X												
7	3248B-B3		X												
8	3248B-C1		X												positive stop
9	3248B-C2		X												
10	3248B-C3		X												

Released by: Chas Smith	Signature:	Date/Time: 5/30/13 10:10am	
Received by: T Stone	Signature:	Date/Time: 5.30.13	

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Environmental Hazards Services, LLC

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(800)347-4010
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7469 Whitepine Rd
Richmond, VA 23237

Company Name: EEE Consulting Inc. Address: 8525 Bell Creek Pk. City/State/Zip: Mechanicsville VA 23116

Phone: (804) 442-3330 Fax: (804) 442-3334 E-mail: CSmith@eee-consulting.com Acct. Number:

Project Name / Testing Address: 13-107 City/State (Required):

Collected by: Chas Smith Purchase Order Number:

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

____ 1 - Day ____ 2 - Day ✓ 3 - Day ____ Same Day (Must Call Ahead) ____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLMPoint Count 400	PLMPoint Count 1000	PLM NY Protocol	PCM	TEMChatfield (Bulk)	TEMAHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	3248B-D1	5/29/13	X												positive Stop
2	3248B-D2	↓	X												
3	3248B-D3	↓	X												
4															
5															
6															
7															
8															
9															
10															

Released by: Chas Smith Signature: Date/Time: 5/30/13 10:10 AM

Received by: TStone Signature: Date/Time: 5/30/13

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Lead Paint Chip Analysis Report

Report Number: 13-05-04147

Client: EEE Consulting Inc.
8525 Bell Creek Rd.
Mechanicsville, VA 23116

Received Date: 05/30/2013
Analyzed Date: 06/03/2013
Reported Date: 06/04/2013

Project/Test Address: 13-107; Quantico, VA
Collection Date: 05/29/2013

Client Number: 48-5796

Laboratory Results

Fax Number: 804-442-3334

Lab Sample Number	Client Sample Number	Collection Location	Pb (ug/g) ppm	% Pb by Wt.	Narrative ID
13-05-04147-001	3248-PB1		75	0.0075	
13-05-04147-002	3248-PB2		79	0.0079	
13-05-04147-003	3248-PB3		70	0.0070	
13-05-04147-004	3248B-PB1		670	0.067	
13-05-04147-005	3248B-PB2		<46	<0.0046	
13-05-04147-006	3248B-PB3		2500	0.25	

Environmental Hazards Services, L.L.C

Client Number: 48-5796 Report Number: 13-05-04147

Project/Test Address: 13-107; Quantico, VA

Lab Sample Number	Client Sample Number	Collection Location	Pb (ug/g) ppm	% Pb by Wt.	Narrative ID

Method: EPA SW846 7000B

Reviewed By Authorized Signatory: Deborah Britt

Deborah Britt
QA/QC Clerk

The HUD lead guidelines for lead paint chips are 0.50% by Weight, 5000 ppm, or 1.0 mg/cm². The Reporting Limit (RL) is 10.0 ug Total Pb. Paint chip area and results are calculated based on area measurements determined by the client. All internal quality control requirements associated with this batch were met, unless otherwise noted.

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, etc., was provided by the client. Results reported above in mg/cm3 are calculated based on area supplied by client. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714.

LEGEND	Pb= lead	ug = microgram	ppm = parts per million
	ug/g = micrograms per gram	Wt. = weight	

EHS Laboratories™

Lead Chain-of-Custody

13-05-04147

Due Date: 06/04/2013 (Tuesday) AE

Environmental Hazards Services, LLC

www.leadlab.com
(800) 347-4010
(804) 275-4907 (fax)

7469 Whitepine Rd
Richmond, VA 23237

Company Name: EEE consulting Inc. Address: 8525 Bell Creek Rd. City/State/Zip: [redacted], VA 23116

Phone: (804) 442-3330 Fax: (804) 442-3334 E-mail: CSmith@EEEconsulting.com Acct. Number:

Project Name / Testing Address: 13-107 City/State (Required): Quantico, VA

Collected by: Chris Smith Certification Number: Purchase Order Number:

* Do wipe samples submitted meet ASTM E1792 requirements? Yes ☐ No ☐

Turn Around Time (TAT)
☐1-Day ☑3-Day
☐Same Day (Must Call Ahead)
☐Weekend (Must Call Ahead)
If no TAT is specified, sample(s) will be processed and charged as 3-Day TAT.

Sample Type
Single Dust Wipe = DW; Soil = S
Paint Chip = PC; Air = A
Composite Soil = CS

Abbreviations
FR = Family Room; F = Front; 0 = Basement
LR = Living Room; R = Rear; KT = Kitchen
DN = Den; LT = Left; BA = Bath
DR = Dining Room; RT = Right; BR = Bedroom
1 = 1st Fl; 2 = 2nd Fl

Surface Type for Dust Wipe
FL = Floor
CP = Carpet
SL = Window Sill
WW = Window Well

No.	Sample Type	Date Collected	Client Sample ID	Collection Location (LR, KT, LTFBR, RTRBR, etc.)	Surface Type	Area: Length X Width in inches (Provide paint chip area only if requesting mg/cm2)	Paint Chip: mg/cm²	Paint Chip: PPM	Paint Chip: %	Air: Flow Rate (L/ min)	Air: Total Time (minutes)	Air: Volume (Total Liters)	Comments
1	PC	5/29/13	3248-Pb1			X			✓				
2			3248-Pb2			X			✓				
3			3248-Pb3			X			✓				
4						X							
5			3248B-Pb1			X			✓				
6			3248B-Pb2			X			✓				
7			3248B-Pb3			X			✓				
8						X							
9						X							
10						X							

1 – 6

Released by: Chris Stone	Signature: Chris Stone	Date/Time: 5/30/13 10:00 Am
Received by:	Signature:	Date/Time: 5.30.13

2109A North Hamilton Street ● Richmond, Virginia 23230 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville, VA 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
		Project Number:	13-107
Submitted To:	Chad Smith	Purchase Order:	
Client Site I.D.:	13-107		

Enclosed are the results of analyses for samples received by the laboratory on 05/30/2013 17:05. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Ted Soyars

Ted Soyars
Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

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Accredited in accordance with nelac
Commonwealth of Virginia, DCLS
Accreditation # 460021

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by the Virginia Department of Minority Business Enterprise

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Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received: Date Issued:	May 30, 2013 17:05 June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1A	13E0473-01	Soil	05/29/2013 11:00	05/30/2013 17:05
B1B	13E0473-02	Soil	05/29/2013 11:00	05/30/2013 17:05
B2A	13E0473-03	Soil	05/29/2013 11:15	05/30/2013 17:05
B2B	13E0473-04	Soil	05/29/2013 11:15	05/30/2013 17:05
B3A	13E0473-05	Soil	05/29/2013 11:30	05/30/2013 17:05
B3B	13E0473-06	Soil	05/29/2013 11:30	05/30/2013 17:05

AIR WATER & SOIL LABORATORIES, INC.

2109A North Hamilton Street ● Richmond, Virginia 23230 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B1A **Laboratory Sample ID:** 13E0473-01

Date/Time Sampled: 05/29/2013 11:00

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
1,2,4,5-Tetrachlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
1,2,4-Trichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
1,2-Dichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
1,2-Diphenylhydrazine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
1,3-Dichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
1,4-Dichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
1-Chloronaphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
1-Naphthylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
2,3,4,6-Tetrachlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
2,4,5-Trichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
2,4,6-Trichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
2,4-Dichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
2,4-Dimethylphenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
2,4-Dinitrophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
2,4-Dinitrotoluene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
2,6-Dichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
2,6-Dinitrotoluene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
2-Chloronaphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
2-Chlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
2-Methylnaphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
2-Naphthylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
2-Nitroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
2-Nitrophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
3,3'-Dichlorobenzidine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
3-Methylcholanthrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
3-Nitroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
4,6-Dinitro-2-methylphenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
4-Aminobiphenyl	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
4-Bromophenyl phenyl ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV

AIR WATER & SOIL LABORATORIES, INC.

2109A North Hamilton Street ● Richmond, Virginia 23230 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B1A **Laboratory Sample ID:** 13E0473-01

Date/Time Sampled: 05/29/2013 11:00

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
4-Chloroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
4-Chlorophenyl phenyl ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
4-Nitroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
4-Nitrophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
7,12-Dimethylbenz (a) anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Acenaphthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Acenaphthylene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Acetophenone	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Aniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Benzidine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Benzo (a) anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Benzo (a) pyrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Benzo (b) fluoranthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Benzo (g,h,i) perylene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Benzo (k) fluoranthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Benzoic acid	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Benzyl alcohol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
bis (2-Chloroethoxy) methane	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
bis (2-Chloroethyl) ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
bis (2-Chloroisopropyl) ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
bis (2-Ethylhexyl) phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Butyl benzyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Chrysene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Dibenz (a,h) anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Dibenz (a,j) acridine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Dibenzofuran	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Diethyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Dimethyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV

AIR WATER & SOIL LABORATORIES, INC.

2109A North Hamilton Street ● Richmond, Virginia 23230 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B1A **Laboratory Sample ID:** 13E0473-01

Date/Time Sampled: 05/29/2013 11:00

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
Di-n-butyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Di-n-octyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Diphenylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Ethyl methanesulfonate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Fluoranthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Fluorene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Hexachlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Hexachlorobutadiene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Hexachlorocyclopentadiene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Hexachloroethane	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Indeno (1,2,3-cd) pyrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Isophorone	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
m+p-Cresols	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Methyl methanesulfonate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Naphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Nitrobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
n-Nitrosodimethylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
n-Nitrosodi-n-butylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
n-Nitrosodi-n-propylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
n-Nitrosodiphenylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
n-Nitrosopiperidine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
o+m+p-Cresols	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
o-Cresol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
p-(Dimethylamino) azobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
p-Chloro-m-cresol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Pentachloronitrobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Pentachlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Phenacetin	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Phenanthrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV

AIR WATER & SOIL LABORATORIES, INC.

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Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B1A **Laboratory Sample ID:** 13E0473-01

Date/Time Sampled: 05/29/2013 11:00

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
Phenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Pronamide	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Pyrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Pyridine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 11:55	JHV
Surrogate: 2,4,6-Tribromophenol	*62.0 %*	*35-125*			05/31/2013 11:00	06/04/2013 11:55	JHV
Surrogate: 2-Fluorobiphenyl	*73.3 %*	*45-105*			05/31/2013 11:00	06/04/2013 11:55	JHV
Surrogate: 2-Fluorophenol	*58.7 %*	*35-105*			05/31/2013 11:00	06/04/2013 11:55	JHV
Surrogate: Nitrobenzene-d5	*67.6 %*	*35-100*			05/31/2013 11:00	06/04/2013 11:55	JHV
Surrogate: Phenol-d5	*57.9 %*	*40-100*			05/31/2013 11:00	06/04/2013 11:55	JHV
Surrogate: p-Terphenyl-d14	*68.7 %*	*30-125*			05/31/2013 11:00	06/04/2013 11:55	JHV
Semivolatile Petroleum Hydrocarbons by GC							
TPH-Semi-Volatiles (ORO)	SW8015C	**10.7 mg/kg**		10.0	05/30/2013 16:00	05/31/2013 21:01	JHV
Organochlorine Pesticides and PCBs by GC/ECD							
PCB as Aroclor 1016	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 21:49	CL
PCB as Aroclor 1221	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 21:49	CL
PCB as Aroclor 1232	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 21:49	CL
PCB as Aroclor 1242	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 21:49	CL
PCB as Aroclor 1248	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 21:49	CL
PCB as Aroclor 1254	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 21:49	CL
PCB as Aroclor 1260	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 21:49	CL
Surrogate: DCB	*65.7 %*	*30-105*			05/30/2013 12:00	06/04/2013 21:49	CL
Surrogate: TCMX	*60.0 %*	*30-105*			05/30/2013 12:00	06/04/2013 21:49	CL

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Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B1B **Laboratory Sample ID:** 13E0473-02

Date/Time Sampled: 05/29/2013 11:00

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
1,2,4,5-Tetrachlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
1,2,4-Trichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
1,2-Dichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
1,2-Diphenylhydrazine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
1,3-Dichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
1,4-Dichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
1-Chloronaphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
1-Naphthylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
2,3,4,6-Tetrachlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
2,4,5-Trichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
2,4,6-Trichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
2,4-Dichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
2,4-Dimethylphenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
2,4-Dinitrophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
2,4-Dinitrotoluene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
2,6-Dichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
2,6-Dinitrotoluene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
2-Chloronaphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
2-Chlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
2-Methylnaphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
2-Naphthylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
2-Nitroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
2-Nitrophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
3,3'-Dichlorobenzidine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
3-Methylcholanthrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
3-Nitroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
4,6-Dinitro-2-methylphenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
4-Aminobiphenyl	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
4-Bromophenyl phenyl ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV

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Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B1B **Laboratory Sample ID:** 13E0473-02

Date/Time Sampled: 05/29/2013 11:00

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
4-Chloroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
4-Chlorophenyl phenyl ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
4-Nitroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
4-Nitrophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
7,12-Dimethylbenz (a) anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Acenaphthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Acenaphthylene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Acetophenone	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Aniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Benzidine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Benzo (a) anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Benzo (a) pyrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Benzo (b) fluoranthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Benzo (g,h,i) perylene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Benzo (k) fluoranthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Benzoic acid	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Benzyl alcohol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
bis (2-Chloroethoxy) methane	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
bis (2-Chloroethyl) ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
bis (2-Chloroisopropyl) ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
bis (2-Ethylhexyl) phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Butyl benzyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Chrysene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Dibenz (a,h) anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Dibenz (a,j) acridine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Dibenzofuran	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Diethyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Dimethyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV

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Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B1B **Laboratory Sample ID:** 13E0473-02

Date/Time Sampled: 05/29/2013 11:00

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
Di-n-butyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Di-n-octyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Diphenylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Ethyl methanesulfonate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Fluoranthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Fluorene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Hexachlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Hexachlorobutadiene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Hexachlorocyclopentadiene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Hexachloroethane	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Indeno (1,2,3-cd) pyrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Isophorone	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
m+p-Cresols	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Methyl methanesulfonate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Naphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Nitrobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
n-Nitrosodimethylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
n-Nitrosodi-n-butylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
n-Nitrosodi-n-propylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
n-Nitrosodiphenylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
n-Nitrosopiperidine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
o+m+p-Cresols	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
o-Cresol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
p-(Dimethylamino) azobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
p-Chloro-m-cresol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Pentachloronitrobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Pentachlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Phenacetin	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Phenanthrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV

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Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B1B **Laboratory Sample ID:** 13E0473-02

Date/Time Sampled: 05/29/2013 11:00

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
Phenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Pronamide	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Pyrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Pyridine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 12:28	JHV
Surrogate: 2,4,6-Tribromophenol	*55.4 %*	*35-125*			05/31/2013 11:00	06/04/2013 12:28	JHV
Surrogate: 2-Fluorobiphenyl	*63.0 %*	*45-105*			05/31/2013 11:00	06/04/2013 12:28	JHV
Surrogate: 2-Fluorophenol	*50.4 %*	*35-105*			05/31/2013 11:00	06/04/2013 12:28	JHV
Surrogate: Nitrobenzene-d5	*57.7 %*	*35-100*			05/31/2013 11:00	06/04/2013 12:28	JHV
Surrogate: Phenol-d5	*49.5 %*	*40-100*			05/31/2013 11:00	06/04/2013 12:28	JHV
Surrogate: p-Terphenyl-d14	*67.2 %*	*30-125*			05/31/2013 11:00	06/04/2013 12:28	JHV
Semivolatile Petroleum Hydrocarbons by GC							
TPH-Semi-Volatiles (ORO)	SW8015C	<10.0 mg/kg		10.0	05/30/2013 16:00	05/31/2013 21:27	JHV
Organochlorine Pesticides and PCBs by GC/ECD							
PCB as Aroclor 1016	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:07	CL
PCB as Aroclor 1221	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:07	CL
PCB as Aroclor 1232	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:07	CL
PCB as Aroclor 1242	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:07	CL
PCB as Aroclor 1248	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:07	CL
PCB as Aroclor 1254	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:07	CL
PCB as Aroclor 1260	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:07	CL
Surrogate: DCB	*75.8 %*	*30-105*			05/30/2013 12:00	06/04/2013 22:07	CL
Surrogate: TCMX	*40.0 %*	*30-105*			05/30/2013 12:00	06/04/2013 22:07	CL

AIR WATER & SOIL LABORATORIES, INC.

2109A North Hamilton Street ● Richmond, Virginia 23230 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B2A **Laboratory Sample ID:** 13E0473-03

Date/Time Sampled: 05/29/2013 11:15

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
1,2,4,5-Tetrachlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
1,2,4-Trichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
1,2-Dichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
1,2-Diphenylhydrazine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
1,3-Dichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
1,4-Dichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
1-Chloronaphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
1-Naphthylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
2,3,4,6-Tetrachlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
2,4,5-Trichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
2,4,6-Trichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
2,4-Dichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
2,4-Dimethylphenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
2,4-Dinitrophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
2,4-Dinitrotoluene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
2,6-Dichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
2,6-Dinitrotoluene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
2-Chloronaphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
2-Chlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
2-Methylnaphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
2-Naphthylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
2-Nitroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
2-Nitrophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
3,3'-Dichlorobenzidine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
3-Methylcholanthrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
3-Nitroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
4,6-Dinitro-2-methylphenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
4-Aminobiphenyl	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
4-Bromophenyl phenyl ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV

AIR WATER & SOIL LABORATORIES, INC.

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Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B2A **Laboratory Sample ID:** 13E0473-03

Date/Time Sampled: 05/29/2013 11:15

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
4-Chloroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
4-Chlorophenyl phenyl ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
4-Nitroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
4-Nitrophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
7,12-Dimethylbenz (a) anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Acenaphthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Acenaphthylene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Acetophenone	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Aniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Benzidine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Benzo (a) anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Benzo (a) pyrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Benzo (b) fluoranthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Benzo (g,h,i) perylene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Benzo (k) fluoranthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Benzoic acid	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Benzyl alcohol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
bis (2-Chloroethoxy) methane	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
bis (2-Chloroethyl) ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
bis (2-Chloroisopropyl) ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
bis (2-Ethylhexyl) phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Butyl benzyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Chrysene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Dibenz (a,h) anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Dibenz (a,j) acridine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Dibenzofuran	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Diethyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Dimethyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV

AIR WATER & SOIL LABORATORIES, INC.

2109A North Hamilton Street ● Richmond, Virginia 23230 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B2A **Laboratory Sample ID:** 13E0473-03

Date/Time Sampled: 05/29/2013 11:15

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
Di-n-butyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Di-n-octyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Diphenylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Ethyl methanesulfonate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Fluoranthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Fluorene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Hexachlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Hexachlorobutadiene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Hexachlorocyclopentadiene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Hexachloroethane	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Indeno (1,2,3-cd) pyrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Isophorone	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
m+p-Cresols	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Methyl methanesulfonate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Naphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Nitrobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
n-Nitrosodimethylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
n-Nitrosodi-n-butylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
n-Nitrosodi-n-propylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
n-Nitrosodiphenylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
n-Nitrosopiperidine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
o+m+p-Cresols	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
o-Cresol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
p-(Dimethylamino) azobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
p-Chloro-m-cresol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Pentachloronitrobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Pentachlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Phenacetin	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Phenanthrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV

AIR WATER & SOIL LABORATORIES, INC.

2109A North Hamilton Street ● Richmond, Virginia 23230 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B2A **Laboratory Sample ID:** 13E0473-03

Date/Time Sampled: 05/29/2013 11:15

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
Phenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Pronamide	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Pyrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Pyridine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:03	JHV
Surrogate: 2,4,6-Tribromophenol	*65.1 %*	*35-125*			05/31/2013 11:00	06/04/2013 13:03	JHV
Surrogate: 2-Fluorobiphenyl	*75.7 %*	*45-105*			05/31/2013 11:00	06/04/2013 13:03	JHV
Surrogate: 2-Fluorophenol	*60.4 %*	*35-105*			05/31/2013 11:00	06/04/2013 13:03	JHV
Surrogate: Nitrobenzene-d5	*69.1 %*	*35-100*			05/31/2013 11:00	06/04/2013 13:03	JHV
Surrogate: Phenol-d5	*59.0 %*	*40-100*			05/31/2013 11:00	06/04/2013 13:03	JHV
Surrogate: p-Terphenyl-d14	*69.4 %*	*30-125*			05/31/2013 11:00	06/04/2013 13:03	JHV
Semivolatile Petroleum Hydrocarbons by GC							
TPH-Semi-Volatiles (ORO)	SW8015C	**17.4 mg/kg**		10.0	05/30/2013 16:00	05/31/2013 21:52	JHV
Organochlorine Pesticides and PCBs by GC/ECD							
PCB as Aroclor 1016	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:25	CL
PCB as Aroclor 1221	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:25	CL
PCB as Aroclor 1232	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:25	CL
PCB as Aroclor 1242	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:25	CL
PCB as Aroclor 1248	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:25	CL
PCB as Aroclor 1254	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:25	CL
PCB as Aroclor 1260	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:25	CL
Surrogate: DCB	*70.7 %*	*30-105*			05/30/2013 12:00	06/04/2013 22:25	CL
Surrogate: TCMX	*60.0 %*	*30-105*			05/30/2013 12:00	06/04/2013 22:25	CL

AIR WATER & SOIL LABORATORIES, INC.

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Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B2B **Laboratory Sample ID:** 13E0473-04

Date/Time Sampled: 05/29/2013 11:15

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
1,2,4,5-Tetrachlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
1,2,4-Trichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
1,2-Dichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
1,2-Diphenylhydrazine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
1,3-Dichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
1,4-Dichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
1-Chloronaphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
1-Naphthylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
2,3,4,6-Tetrachlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
2,4,5-Trichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
2,4,6-Trichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
2,4-Dichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
2,4-Dimethylphenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
2,4-Dinitrophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
2,4-Dinitrotoluene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
2,6-Dichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
2,6-Dinitrotoluene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
2-Chloronaphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
2-Chlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
2-Methylnaphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
2-Naphthylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
2-Nitroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
2-Nitrophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
3,3'-Dichlorobenzidine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
3-Methylcholanthrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
3-Nitroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
4,6-Dinitro-2-methylphenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
4-Aminobiphenyl	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
4-Bromophenyl phenyl ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV

AIR WATER & SOIL LABORATORIES, INC.

2109A North Hamilton Street ● Richmond, Virginia 23230 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B2B **Laboratory Sample ID:** 13E0473-04

Date/Time Sampled: 05/29/2013 11:15

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
4-Chloroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
4-Chlorophenyl phenyl ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
4-Nitroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
4-Nitrophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
7,12-Dimethylbenz (a) anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Acenaphthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Acenaphthylene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Acetophenone	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Aniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Benzidine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Benzo (a) anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Benzo (a) pyrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Benzo (b) fluoranthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Benzo (g,h,i) perylene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Benzo (k) fluoranthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Benzoic acid	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Benzyl alcohol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
bis (2-Chloroethoxy) methane	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
bis (2-Chloroethyl) ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
bis (2-Chloroisopropyl) ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
bis (2-Ethylhexyl) phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Butyl benzyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Chrysene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Dibenz (a,h) anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Dibenz (a,j) acridine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Dibenzofuran	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Diethyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Dimethyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV

AIR WATER & SOIL LABORATORIES, INC.

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Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B2B **Laboratory Sample ID:** 13E0473-04

Date/Time Sampled: 05/29/2013 11:15

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
Di-n-butyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Di-n-octyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Diphenylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Ethyl methanesulfonate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Fluoranthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Fluorene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Hexachlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Hexachlorobutadiene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Hexachlorocyclopentadiene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Hexachloroethane	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Indeno (1,2,3-cd) pyrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Isophorone	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
m+p-Cresols	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Methyl methanesulfonate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Naphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Nitrobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
n-Nitrosodimethylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
n-Nitrosodi-n-butylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
n-Nitrosodi-n-propylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
n-Nitrosodiphenylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
n-Nitrosopiperidine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
o+m+p-Cresols	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
o-Cresol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
p-(Dimethylamino) azobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
p-Chloro-m-cresol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Pentachloronitrobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Pentachlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Phenacetin	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Phenanthrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV

AIR WATER & SOIL LABORATORIES, INC.

2109A North Hamilton Street ● Richmond, Virginia 23230 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B2B **Laboratory Sample ID:** 13E0473-04

Date/Time Sampled: 05/29/2013 11:15

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
Phenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Pronamide	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Pyrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Pyridine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 13:37	JHV
Surrogate: 2,4,6-Tribromophenol	*62.5 %*	*35-125*			05/31/2013 11:00	06/04/2013 13:37	JHV
Surrogate: 2-Fluorobiphenyl	*72.7 %*	*45-105*			05/31/2013 11:00	06/04/2013 13:37	JHV
Surrogate: 2-Fluorophenol	*58.8 %*	*35-105*			05/31/2013 11:00	06/04/2013 13:37	JHV
Surrogate: Nitrobenzene-d5	*69.0 %*	*35-100*			05/31/2013 11:00	06/04/2013 13:37	JHV
Surrogate: Phenol-d5	*58.9 %*	*40-100*			05/31/2013 11:00	06/04/2013 13:37	JHV
Surrogate: p-Terphenyl-d14	*73.6 %*	*30-125*			05/31/2013 11:00	06/04/2013 13:37	JHV
Semivolatile Petroleum Hydrocarbons by GC							
TPH-Semi-Volatiles (ORO)	SW8015C	<10.0 mg/kg		10.0	05/30/2013 16:00	05/31/2013 22:18	JHV
Organochlorine Pesticides and PCBs by GC/ECD							
PCB as Aroclor 1016	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:43	CL
PCB as Aroclor 1221	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:43	CL
PCB as Aroclor 1232	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:43	CL
PCB as Aroclor 1242	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:43	CL
PCB as Aroclor 1248	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:43	CL
PCB as Aroclor 1254	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:43	CL
PCB as Aroclor 1260	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 22:43	CL
Surrogate: DCB	*70.7 %*	*30-105*			05/30/2013 12:00	06/04/2013 22:43	CL
Surrogate: TCMX	*55.0 %*	*30-105*			05/30/2013 12:00	06/04/2013 22:43	CL

AIR WATER & SOIL LABORATORIES, INC.

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Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B3A **Laboratory Sample ID:** 13E0473-05

Date/Time Sampled: 05/29/2013 11:30

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
1,2,4,5-Tetrachlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
1,2,4-Trichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
1,2-Dichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
1,2-Diphenylhydrazine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
1,3-Dichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
1,4-Dichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
1-Chloronaphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
1-Naphthylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
2,3,4,6-Tetrachlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
2,4,5-Trichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
2,4,6-Trichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
2,4-Dichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
2,4-Dimethylphenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
2,4-Dinitrophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
2,4-Dinitrotoluene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
2,6-Dichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
2,6-Dinitrotoluene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
2-Chloronaphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
2-Chlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
2-Methylnaphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
2-Naphthylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
2-Nitroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
2-Nitrophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
3,3'-Dichlorobenzidine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
3-Methylcholanthrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
3-Nitroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
4,6-Dinitro-2-methylphenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
4-Aminobiphenyl	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
4-Bromophenyl phenyl ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV

AIR WATER & SOIL LABORATORIES, INC.

2109A North Hamilton Street ● Richmond, Virginia 23230 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B3A **Laboratory Sample ID:** 13E0473-05

Date/Time Sampled: 05/29/2013 11:30

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
4-Chloroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
4-Chlorophenyl phenyl ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
4-Nitroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
4-Nitrophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
7,12-Dimethylbenz (a) anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Acenaphthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Acenaphthylene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Acetophenone	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Aniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Benzidine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Benzo (a) anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Benzo (a) pyrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Benzo (b) fluoranthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Benzo (g,h,i) perylene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Benzo (k) fluoranthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Benzoic acid	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Benzyl alcohol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
bis (2-Chloroethoxy) methane	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
bis (2-Chloroethyl) ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
bis (2-Chloroisopropyl) ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
bis (2-Ethylhexyl) phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Butyl benzyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Chrysene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Dibenz (a,h) anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Dibenz (a,j) acridine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Dibenzofuran	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Diethyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Dimethyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV

AIR WATER & SOIL LABORATORIES, INC.

2109A North Hamilton Street ● Richmond, Virginia 23230 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B3A **Laboratory Sample ID:** 13E0473-05

Date/Time Sampled: 05/29/2013 11:30

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
Di-n-butyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Di-n-octyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Diphenylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Ethyl methanesulfonate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Fluoranthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Fluorene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Hexachlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Hexachlorobutadiene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Hexachlorocyclopentadiene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Hexachloroethane	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Indeno (1,2,3-cd) pyrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Isophorone	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
m+p-Cresols	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Methyl methanesulfonate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Naphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Nitrobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
n-Nitrosodimethylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
n-Nitrosodi-n-butylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
n-Nitrosodi-n-propylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
n-Nitrosodiphenylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
n-Nitrosopiperidine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
o+m+p-Cresols	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
o-Cresol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
p-(Dimethylamino) azobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
p-Chloro-m-cresol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Pentachloronitrobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Pentachlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Phenacetin	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Phenanthrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV

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Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B3A **Laboratory Sample ID:** 13E0473-05

Date/Time Sampled: 05/29/2013 11:30

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
Phenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Pronamide	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Pyrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Pyridine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:12	JHV
Surrogate: 2,4,6-Tribromophenol	*69.5 %*	*35-125*			05/31/2013 11:00	06/04/2013 14:12	JHV
Surrogate: 2-Fluorobiphenyl	*80.9 %*	*45-105*			05/31/2013 11:00	06/04/2013 14:12	JHV
Surrogate: 2-Fluorophenol	*65.2 %*	*35-105*			05/31/2013 11:00	06/04/2013 14:12	JHV
Surrogate: Nitrobenzene-d5	*75.0 %*	*35-100*			05/31/2013 11:00	06/04/2013 14:12	JHV
Surrogate: Phenol-d5	*63.6 %*	*40-100*			05/31/2013 11:00	06/04/2013 14:12	JHV
Surrogate: p-Terphenyl-d14	*75.8 %*	*30-125*			05/31/2013 11:00	06/04/2013 14:12	JHV
Semivolatile Petroleum Hydrocarbons by GC							
TPH-Semi-Volatiles (ORO)	SW8015C	<10.0 mg/kg		10.0	05/30/2013 16:00	05/31/2013 22:44	JHV
Organochlorine Pesticides and PCBs by GC/ECD							
PCB as Aroclor 1016	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 23:00	CL
PCB as Aroclor 1221	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 23:00	CL
PCB as Aroclor 1232	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 23:00	CL
PCB as Aroclor 1242	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 23:00	CL
PCB as Aroclor 1248	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 23:00	CL
PCB as Aroclor 1254	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 23:00	CL
PCB as Aroclor 1260	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 23:00	CL
Surrogate: DCB	*80.8 %*	*30-105*			05/30/2013 12:00	06/04/2013 23:00	CL
Surrogate: TCMX	*65.0 %*	*30-105*			05/30/2013 12:00	06/04/2013 23:00	CL

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Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B3B **Laboratory Sample ID:** 13E0473-06

Date/Time Sampled: 05/29/2013 11:30

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
1,2,4,5-Tetrachlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
1,2,4-Trichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
1,2-Dichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
1,2-Diphenylhydrazine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
1,3-Dichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
1,4-Dichlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
1-Chloronaphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
1-Naphthylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
2,3,4,6-Tetrachlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
2,4,5-Trichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
2,4,6-Trichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
2,4-Dichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
2,4-Dimethylphenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
2,4-Dinitrophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
2,4-Dinitrotoluene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
2,6-Dichlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
2,6-Dinitrotoluene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
2-Chloronaphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
2-Chlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
2-Methylnaphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
2-Naphthylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
2-Nitroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
2-Nitrophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
3,3'-Dichlorobenzidine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
3-Methylcholanthrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
3-Nitroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
4,6-Dinitro-2-methylphenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
4-Aminobiphenyl	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
4-Bromophenyl phenyl ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV

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Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B3B **Laboratory Sample ID:** 13E0473-06

Date/Time Sampled: 05/29/2013 11:30

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
4-Chloroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
4-Chlorophenyl phenyl ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
4-Nitroaniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
4-Nitrophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
7,12-Dimethylbenz (a) anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Acenaphthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Acenaphthylene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Acetophenone	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Aniline	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Benzidine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Benzo (a) anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Benzo (a) pyrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Benzo (b) fluoranthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Benzo (g,h,i) perylene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Benzo (k) fluoranthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Benzoic acid	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Benzyl alcohol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
bis (2-Chloroethoxy) methane	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
bis (2-Chloroethyl) ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
bis (2-Chloroisopropyl) ether	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
bis (2-Ethylhexyl) phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Butyl benzyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Chrysene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Dibenz (a,h) anthracene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Dibenz (a,j) acridine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Dibenzofuran	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Diethyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Dimethyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV

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Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B3B **Laboratory Sample ID:** 13E0473-06

Date/Time Sampled: 05/29/2013 11:30

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
Di-n-butyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Di-n-octyl phthalate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Diphenylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Ethyl methanesulfonate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Fluoranthene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Fluorene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Hexachlorobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Hexachlorobutadiene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Hexachlorocyclopentadiene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Hexachloroethane	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Indeno (1,2,3-cd) pyrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Isophorone	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
m+p-Cresols	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Methyl methanesulfonate	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Naphthalene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Nitrobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
n-Nitrosodimethylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
n-Nitrosodi-n-butylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
n-Nitrosodi-n-propylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
n-Nitrosodiphenylamine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
n-Nitrosopiperidine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
o+m+p-Cresols	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
o-Cresol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
p-(Dimethylamino) azobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
p-Chloro-m-cresol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Pentachloronitrobenzene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Pentachlorophenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Phenacetin	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Phenanthrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV

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Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received:	May 30, 2013 17:05
		Date Issued:	June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Analytical Results

Sample I.D. B3B **Laboratory Sample ID:** 13E0473-06

Date/Time Sampled: 05/29/2013 11:30

Parameter	Method	Result	Qual	Reporting Limit	Sample Prep Date/Time	Analysis Date/Time	Analyst
Semivolatile Organic Compounds by GCMS							
Phenol	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Pronamide	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Pyrene	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Pyridine	SW8270D	<83.3 ug/kg		83.3	05/31/2013 11:00	06/04/2013 14:46	JHV
Surrogate: 2,4,6-Tribromophenol	*59.0 %*	*35-125*			05/31/2013 11:00	06/04/2013 14:46	JHV
Surrogate: 2-Fluorobiphenyl	*66.0 %*	*45-105*			05/31/2013 11:00	06/04/2013 14:46	JHV
Surrogate: 2-Fluorophenol	*52.8 %*	*35-105*			05/31/2013 11:00	06/04/2013 14:46	JHV
Surrogate: Nitrobenzene-d5	*60.5 %*	*35-100*			05/31/2013 11:00	06/04/2013 14:46	JHV
Surrogate: Phenol-d5	*52.6 %*	*40-100*			05/31/2013 11:00	06/04/2013 14:46	JHV
Surrogate: p-Terphenyl-d14	*71.8 %*	*30-125*			05/31/2013 11:00	06/04/2013 14:46	JHV
Semivolatile Petroleum Hydrocarbons by GC							
TPH-Semi-Volatiles (ORO)	SW8015C	<10.0 mg/kg		10.0	05/30/2013 16:00	05/31/2013 23:09	JHV
Organochlorine Pesticides and PCBs by GC/ECD							
PCB as Aroclor 1016	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 23:18	CL
PCB as Aroclor 1221	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 23:18	CL
PCB as Aroclor 1232	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 23:18	CL
PCB as Aroclor 1242	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 23:18	CL
PCB as Aroclor 1248	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 23:18	CL
PCB as Aroclor 1254	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 23:18	CL
PCB as Aroclor 1260	SW8082A	<0.100 mg/kg		0.100	05/30/2013 12:00	06/04/2013 23:18	CL
Surrogate: DCB	*75.8 %*	*30-105*			05/30/2013 12:00	06/04/2013 23:18	CL
Surrogate: TCMX	*60.0 %*	*30-105*			05/30/2013 12:00	06/04/2013 23:18	CL

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Summary of Analytical QC Batches

QC Batch ID	Method	Sample List
BWE0618	SW8082A	13E0473-01,13E0473-02,13E0473-03,13E0473-04,13E0473-05,13E0473-06
BWE0620	SW8015C	13E0473-01,13E0473-02,13E0473-03,13E0473-04,13E0473-05,13E0473-06
BWE0627	SW8270D	13E0473-01,13E0473-02,13E0473-03,13E0473-04,13E0473-05,13E0473-06

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Semivolatile Organic Compounds by GCMS - Quality Control

Air Water & Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BWE0627 - SW3550C										
Blank (BWE0627-BLK1)				Prepared: 05/31/2013 Analyzed: 06/04/2013						
1,2,4,5-Tetrachlorobenzene	<83.3 ug/kg	83.3	ug/kg							
1,2,4-Trichlorobenzene	<83.3 ug/kg	83.3	ug/kg							
1,2-Dichlorobenzene	<83.3 ug/kg	83.3	ug/kg							
1,2-Diphenylhydrazine	<83.3 ug/kg	83.3	ug/kg							
1,3-Dichlorobenzene	<83.3 ug/kg	83.3	ug/kg							
1,4-Dichlorobenzene	<83.3 ug/kg	83.3	ug/kg							
1-Chloronaphthalene	<83.3 ug/kg	83.3	ug/kg							
1-Naphthylamine	<83.3 ug/kg	83.3	ug/kg							
2,3,4,6-Tetrachlorophenol	<83.3 ug/kg	83.3	ug/kg							
2,4,5-Trichlorophenol	<83.3 ug/kg	83.3	ug/kg							
2,4,6-Trichlorophenol	<83.3 ug/kg	83.3	ug/kg							
2,4-Dichlorophenol	<83.3 ug/kg	83.3	ug/kg							
2,4-Dimethylphenol	<83.3 ug/kg	83.3	ug/kg							
2,4-Dinitrophenol	<83.3 ug/kg	83.3	ug/kg							
2,4-Dinitrotoluene	<83.3 ug/kg	83.3	ug/kg							
2,6-Dichlorophenol	<83.3 ug/kg	83.3	ug/kg							
2,6-Dinitrotoluene	<83.3 ug/kg	83.3	ug/kg							
2-Chloronaphthalene	<83.3 ug/kg	83.3	ug/kg							
2-Chlorophenol	<83.3 ug/kg	83.3	ug/kg							
2-Methylnaphthalene	<83.3 ug/kg	83.3	ug/kg							
2-Naphthylamine	<83.3 ug/kg	83.3	ug/kg							
2-Nitroaniline	<83.3 ug/kg	83.3	ug/kg							
2-Nitrophenol	<83.3 ug/kg	83.3	ug/kg							
3,3'-Dichlorobenzidine	<83.3 ug/kg	83.3	ug/kg							
3-Methylcholanthrene	<83.3 ug/kg	83.3	ug/kg							
3-Nitroaniline	<83.3 ug/kg	83.3	ug/kg							
4,6-Dinitro-2-methylphenol	<83.3 ug/kg	83.3	ug/kg							
4-Aminobiphenyl	<83.3 ug/kg	83.3	ug/kg							
4-Bromophenyl phenyl ether	<83.3 ug/kg	83.3	ug/kg							
4-Chloroaniline	<83.3 ug/kg	83.3	ug/kg							
4-Chlorophenyl phenyl ether	<83.3 ug/kg	83.3	ug/kg							
4-Nitroaniline	<83.3 ug/kg	83.3	ug/kg							
4-Nitrophenol	<83.3 ug/kg	83.3	ug/kg							

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Semivolatile Organic Compounds by GCMS - Quality Control

Air Water & Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BWE0627 - SW3550C										
Blank (BWE0627-BLK1)				Prepared: 05/31/2013 Analyzed: 06/04/2013						
7,12-Dimethylbenz (a) anthracene	<83.3 ug/kg	83.3	ug/kg							
Acenaphthene	<83.3 ug/kg	83.3	ug/kg							
Acenaphthylene	<83.3 ug/kg	83.3	ug/kg							
Acetophenone	<83.3 ug/kg	83.3	ug/kg							
Aniline	<83.3 ug/kg	83.3	ug/kg							
Anthracene	<83.3 ug/kg	83.3	ug/kg							
Benzidine	<83.3 ug/kg	83.3	ug/kg							
Benzo (a) anthracene	<83.3 ug/kg	83.3	ug/kg							
Benzo (a) pyrene	<83.3 ug/kg	83.3	ug/kg							
Benzo (b) fluoranthene	<83.3 ug/kg	83.3	ug/kg							
Benzo (g,h,i) perylene	<83.3 ug/kg	83.3	ug/kg							
Benzo (k) fluoranthene	<83.3 ug/kg	83.3	ug/kg							
Benzoic acid	<83.3 ug/kg	83.3	ug/kg							
Benzyl alcohol	<83.3 ug/kg	83.3	ug/kg							
bis (2-Chloroethoxy) methane	<83.3 ug/kg	83.3	ug/kg							
bis (2-Chloroethyl) ether	<83.3 ug/kg	83.3	ug/kg							
bis (2-Chloroisopropyl) ether	<83.3 ug/kg	83.3	ug/kg							
bis (2-Ethylhexyl) phthalate	<83.3 ug/kg	83.3	ug/kg							
Butyl benzyl phthalate	<83.3 ug/kg	83.3	ug/kg							
Chrysene	<83.3 ug/kg	83.3	ug/kg							
Dibenz (a,h) anthracene	<83.3 ug/kg	83.3	ug/kg							
Dibenz (a,j) acridine	<83.3 ug/kg	83.3	ug/kg							
Dibenzofuran	<83.3 ug/kg	83.3	ug/kg							
Diethyl phthalate	<83.3 ug/kg	83.3	ug/kg							
Dimethyl phthalate	<83.3 ug/kg	83.3	ug/kg							
Di-n-butyl phthalate	<83.3 ug/kg	83.3	ug/kg							
Di-n-octyl phthalate	<83.3 ug/kg	83.3	ug/kg							
Diphenylamine	<83.3 ug/kg	83.3	ug/kg							
Ethyl methanesulfonate	<83.3 ug/kg	83.3	ug/kg							
Fluoranthene	<83.3 ug/kg	83.3	ug/kg							
Fluorene	<83.3 ug/kg	83.3	ug/kg							
Hexachlorobenzene	<83.3 ug/kg	83.3	ug/kg							
Hexachlorobutadiene	<83.3 ug/kg	83.3	ug/kg							

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Semivolatile Organic Compounds by GCMS - Quality Control

Air Water & Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BWE0627 - SW3550C										
Blank (BWE0627-BLK1)				Prepared: 05/31/2013 Analyzed: 06/04/2013						
Hexachlorocyclopentadiene	<83.3 ug/kg	83.3	ug/kg							
Hexachloroethane	<83.3 ug/kg	83.3	ug/kg							
Indeno (1,2,3-cd) pyrene	<83.3 ug/kg	83.3	ug/kg							
Isophorone	<83.3 ug/kg	83.3	ug/kg							
m+p-Cresols	<83.3 ug/kg	83.3	ug/kg							
Methyl methanesulfonate	<83.3 ug/kg	83.3	ug/kg							
Naphthalene	<83.3 ug/kg	83.3	ug/kg							
Nitrobenzene	<83.3 ug/kg	83.3	ug/kg							
n-Nitrosodimethylamine	<83.3 ug/kg	83.3	ug/kg							
n-Nitrosodi-n-butylamine	<83.3 ug/kg	83.3	ug/kg							
n-Nitrosodi-n-propylamine	<83.3 ug/kg	83.3	ug/kg							
n-Nitrosodiphenylamine	<83.3 ug/kg	83.3	ug/kg							
n-Nitrosopiperidine	<83.3 ug/kg	83.3	ug/kg							
o+m+p-Cresols	<83.3 ug/kg	83.3	ug/kg							
o-Cresol	<83.3 ug/kg	83.3	ug/kg							
p-(Dimethylamino) azobenzene	<83.3 ug/kg	83.3	ug/kg							
p-Chloro-m-cresol	<83.3 ug/kg	83.3	ug/kg							
Pentachloronitrobenzene	<83.3 ug/kg	83.3	ug/kg							
Pentachlorophenol	<83.3 ug/kg	83.3	ug/kg							
Phenacetin	<83.3 ug/kg	83.3	ug/kg							
Phenanthrene	<83.3 ug/kg	83.3	ug/kg							
Phenol	<83.3 ug/kg	83.3	ug/kg							
Pronamide	<83.3 ug/kg	83.3	ug/kg							
Pyrene	<83.3 ug/kg	83.3	ug/kg							
Pyridine	<83.3 ug/kg	83.3	ug/kg							
Surrogate: 2,4,6-Tribromophenol	*1630*		ug/kg	*3330*		*48.8*	*35-125*			
Surrogate: 2-Fluorobiphenyl	*994*		ug/kg	*1670*		*59.7*	*45-105*			
Surrogate: 2-Fluorophenol	*1660*		ug/kg	*3330*		*49.8*	*35-105*			
Surrogate: Nitrobenzene-d5	*943*		ug/kg	*1670*		*56.6*	*35-100*			
Surrogate: Phenol-d5	*1640*		ug/kg	*3330*		*49.3*	*40-100*			
Surrogate: p-Terphenyl-d14	*1050*		ug/kg	*1670*		*62.8*	*30-125*			

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Semivolatile Organic Compounds by GCMS - Quality Control

Air Water & Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BWE0627 - SW3550C										
LCS (BWE0627-BS1)				Prepared: 05/31/2013 Analyzed: 06/04/2013						
1,2,4-Trichlorobenzene	1080 ug/kg	83.3	ug/kg	1660		65.5	44-142			
1,4-Dichlorobenzene	898 ug/kg	83.3	ug/kg	1670		53.9	20-124			
4-Nitrophenol	2100 ug/kg	83.3	ug/kg	3330		63.1	15-140			
Acenaphthene	923 ug/kg	83.3	ug/kg	1660		55.6	45-110			
n-Nitrosodi-n-propylamine	1090 ug/kg	83.3	ug/kg	1660		65.9	40-115			
Pentachlorophenol	2060 ug/kg	83.3	ug/kg	3300		62.4	25-120			
Phenol	1700 ug/kg	83.3	ug/kg	3330		50.9	40-100			
Pyrene	1110 ug/kg	83.3	ug/kg	1670		66.8	45-125			
Surrogate: 2,4,6-Tribromophenol	*1960*		ug/kg	*3330*		*58.9*	*35-125*			
Surrogate: 2-Fluorobiphenyl	*1090*		ug/kg	*1670*		*65.5*	*45-105*			
Surrogate: 2-Fluorophenol	*1870*		ug/kg	*3330*		*56.2*	*35-105*			
Surrogate: Nitrobenzene-d5	*1050*		ug/kg	*1670*		*63.3*	*35-100*			
Surrogate: Phenol-d5	*1870*		ug/kg	*3330*		*56.0*	*40-100*			
Surrogate: p-Terphenyl-d14	*1070*		ug/kg	*1670*		*64.1*	*30-125*			
LCS Dup (BWE0627-BSD1)				Prepared: 05/31/2013 Analyzed: 06/04/2013						
1,2,4-Trichlorobenzene	821 ug/kg	83.3	ug/kg	1660		49.5	44-142	27.7	20	P
1,4-Dichlorobenzene	703 ug/kg	83.3	ug/kg	1670		42.2	20-124	24.4	20	P
4-Nitrophenol	1610 ug/kg	83.3	ug/kg	3330		48.3	15-140	26.5	20	P
Acenaphthene	710 ug/kg	83.3	ug/kg	1660		42.8	45-110	26.1	20	L, P
n-Nitrosodi-n-propylamine	840 ug/kg	83.3	ug/kg	1660		50.6	40-115	26.3	20	P
Pentachlorophenol	1620 ug/kg	83.3	ug/kg	3300		49.2	25-120	23.5	20	P
Phenol	1330 ug/kg	83.3	ug/kg	3330		40.0	40-100	24.0	20	P
Pyrene	924 ug/kg	83.3	ug/kg	1670		55.4	45-125	18.6	20	
Surrogate: 2,4,6-Tribromophenol	*1520*		ug/kg	*3330*		*45.5*	*35-125*			
Surrogate: 2-Fluorobiphenyl	*799*		ug/kg	*1670*		*47.9*	*45-105*			
Surrogate: 2-Fluorophenol	*1470*		ug/kg	*3330*		*44.0*	*35-105*			
Surrogate: Nitrobenzene-d5	*779*		ug/kg	*1670*		*46.8*	*35-100*			
Surrogate: Phenol-d5	*1440*		ug/kg	*3330*		*43.1*	*40-100*			
Surrogate: p-Terphenyl-d14	*854*		ug/kg	*1670*		*51.2*	*30-125*			

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Semivolatile Organic Compounds by GCMS - Quality Control

Air Water & Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BWE0627 - SW3550C										
Matrix Spike (BWE0627-MS1)		**Source: 13E0473-04**		Prepared: 05/31/2013 Analyzed: 06/04/2013						
1,2,4-Trichlorobenzene	1060 ug/kg	83.3	ug/kg	1660	<83.3 ug/kg	64.3	44-142			
1,4-Dichlorobenzene	856 ug/kg	83.3	ug/kg	1670	<83.3 ug/kg	51.3	20-124			
4-Nitrophenol	1980 ug/kg	83.3	ug/kg	3330	<83.3 ug/kg	59.3	15-140			
Acenaphthene	904 ug/kg	83.3	ug/kg	1660	<83.3 ug/kg	54.5	45-110			
n-Nitrosodi-n-propylamine	1040 ug/kg	83.3	ug/kg	1660	<83.3 ug/kg	62.6	40-115			
Pentachlorophenol	1980 ug/kg	83.3	ug/kg	3300	<83.3 ug/kg	59.9	25-120			
Phenol	1630 ug/kg	83.3	ug/kg	3330	<83.3 ug/kg	48.8	40-100			
Pyrene	1060 ug/kg	83.3	ug/kg	1670	<83.3 ug/kg	63.6	45-125			
Surrogate: 2,4,6-Tribromophenol	*1870*		ug/kg	*3330*		*56.2*	*35-125*			
Surrogate: 2-Fluorobiphenyl	*1020*		ug/kg	*1670*		*61.3*	*45-105*			
Surrogate: 2-Fluorophenol	*1720*		ug/kg	*3330*		*51.6*	*35-105*			
Surrogate: Nitrobenzene-d5	*977*		ug/kg	*1670*		*58.6*	*35-100*			
Surrogate: Phenol-d5	*1740*		ug/kg	*3330*		*52.1*	*40-100*			
Surrogate: p-Terphenyl-d14	*992*		ug/kg	*1670*		*59.5*	*30-125*			
Matrix Spike Dup (BWE0627-MSD1)		**Source: 13E0473-04**		Prepared: 05/31/2013 Analyzed: 06/04/2013						
1,2,4-Trichlorobenzene	1100 ug/kg	83.3	ug/kg	1660	<83.3 ug/kg	66.7	44-142	3.66	20	
1,4-Dichlorobenzene	889 ug/kg	83.3	ug/kg	1670	<83.3 ug/kg	53.4	20-124	3.86	20	
4-Nitrophenol	1990 ug/kg	83.3	ug/kg	3330	<83.3 ug/kg	59.7	15-140	0.671	20	
Acenaphthene	942 ug/kg	83.3	ug/kg	1660	<83.3 ug/kg	56.8	45-110	4.05	20	
n-Nitrosodi-n-propylamine	1080 ug/kg	83.3	ug/kg	1660	<83.3 ug/kg	65.1	40-115	3.84	20	
Pentachlorophenol	2090 ug/kg	83.3	ug/kg	3300	<83.3 ug/kg	63.3	25-120	5.39	20	
Phenol	1660 ug/kg	83.3	ug/kg	3330	<83.3 ug/kg	49.9	40-100	2.29	20	
Pyrene	1090 ug/kg	83.3	ug/kg	1670	<83.3 ug/kg	65.4	45-125	2.76	20	
Surrogate: 2,4,6-Tribromophenol	*1990*		ug/kg	*3330*		*59.8*	*35-125*			
Surrogate: 2-Fluorobiphenyl	*1080*		ug/kg	*1670*		*64.8*	*45-105*			
Surrogate: 2-Fluorophenol	*1830*		ug/kg	*3330*		*54.9*	*35-105*			
Surrogate: Nitrobenzene-d5	*1020*		ug/kg	*1670*		*61.4*	*35-100*			
Surrogate: Phenol-d5	*1820*		ug/kg	*3330*		*54.5*	*40-100*			
Surrogate: p-Terphenyl-d14	*1020*		ug/kg	*1670*		*61.5*	*30-125*			

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Semivolatile Petroleum Hydrocarbons by GC - Quality Control

Air Water & Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BWE0620 - SW3510C										
Blank (BWE0620-BLK1)				Prepared: 05/30/2013 Analyzed: 05/31/2013						
TPH-Semi-Volatiles (ORO)	<10.0 mg/kg	10.0	mg/kg							
LCS (BWE0620-BS1)				Prepared: 05/30/2013 Analyzed: 05/31/2013						
TPH-Semi-Volatiles (ORO)	93.1 mg/kg	10.0	mg/kg	99.0		94.0	40-160			
LCS Dup (BWE0620-BSD1)				Prepared: 05/30/2013 Analyzed: 05/31/2013						
TPH-Semi-Volatiles (ORO)	105 mg/kg	10.0	mg/kg	99.2		106	40-160	12.4	20	
Matrix Spike (BWE0620-MS1)		**Source: 13E0473-06**		Prepared: 05/30/2013 Analyzed: 05/31/2013						
TPH-Semi-Volatiles (ORO)	84.6 mg/kg	10.0	mg/kg	98.4	<10.0 mg/kg	86.0	40-160			
Matrix Spike Dup (BWE0620-MSD1)		**Source: 13E0473-06**		Prepared: 05/30/2013 Analyzed: 06/01/2013						
TPH-Semi-Volatiles (ORO)	91.4 mg/kg	10.0	mg/kg	99.0	<10.0 mg/kg	92.3	40-160	7.70	20	

2109A North Hamilton Street ● Richmond, Virginia 23230 ● Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 13E0473

Client Name:	EEE Consulting (Mechanicsville) 8525 Bell Creek Road Mechanicsville VA, 23116	Date Received: Date Issued:	May 30, 2013 17:05 June 5, 2013 14:17
Submitted To:	Chad Smith	Project Number:	13-107
Client Site I.D.:	13-107	Purchase Order:	

Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water & Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BWE0618 - SW3550C										
Blank (BWE0618-BLK1)				Prepared: 05/30/2013 Analyzed: 06/04/2013						
PCB as Aroclor 1016	<0.100 mg/kg	0.100	mg/kg							
PCB as Aroclor 1221	<0.100 mg/kg	0.100	mg/kg							
PCB as Aroclor 1232	<0.100 mg/kg	0.100	mg/kg							
PCB as Aroclor 1242	<0.100 mg/kg	0.100	mg/kg							
PCB as Aroclor 1248	<0.100 mg/kg	0.100	mg/kg							
PCB as Aroclor 1254	<0.100 mg/kg	0.100	mg/kg							
PCB as Aroclor 1260	<0.100 mg/kg	0.100	mg/kg							
Surrogate: DCB	*0.0250*		mg/kg	*0.0330*		*75.8*	*30-105*			
Surrogate: TCMX	*0.0183*		mg/kg	*0.0333*		*55.0*	*30-105*			
LCS (BWE0618-BS1)				Prepared: 05/30/2013 Analyzed: 06/04/2013						
PCB as Aroclor 1016	<0.100 mg/kg	0.100	mg/kg	0.163		59.0	60-140			L
PCB as Aroclor 1260	0.107 mg/kg	0.100	mg/kg	0.163		66.0	60-140			
Surrogate: DCB	*0.0212*		mg/kg	*0.0322*		*65.7*	*30-105*			
Surrogate: TCMX	*0.0163*		mg/kg	*0.0326*		*50.0*	*30-105*			
LCS Dup (BWE0618-BSD1)				Prepared: 05/30/2013 Analyzed: 06/04/2013						
PCB as Aroclor 1016	0.123 mg/kg	0.100	mg/kg	0.163		75.0	60-140	24.2	20	P
PCB as Aroclor 1260	0.126 mg/kg	0.100	mg/kg	0.163		77.0	60-140	15.7	20	
Surrogate: DCB	*0.0245*		mg/kg	*0.0324*		*75.8*	*30-105*			
Surrogate: TCMX	*0.0180*		mg/kg	*0.0327*		*55.0*	*30-105*			
Matrix Spike (BWE0618-MS1)		**Source: 13E0462-08**		Prepared: 05/30/2013 Analyzed: 06/05/2013						
PCB as Aroclor 1016	0.113 mg/kg	0.100	mg/kg	0.166	<0.100 mg/kg	68.0	60-140			
PCB as Aroclor 1260	<0.100 mg/kg	0.100	mg/kg	0.166	<0.100 mg/kg	57.0	60-140			M
Surrogate: DCB	*0.0150*		mg/kg	*0.0329*		*45.5*	*30-105*			
Surrogate: TCMX	*0.0166*		mg/kg	*0.0332*		*50.0*	*30-105*			

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Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water & Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch BWE0618 - SW3550C										
Matrix Spike Dup (BWE0618-MSD1)		**Source: 13E0462-08**		Prepared: 05/30/2013 Analyzed: 06/05/2013						
PCB as Aroclor 1016	0.118 mg/kg	0.100	mg/kg	0.166	<0.100 mg/kg	71.0	60-140	3.99	20	
PCB as Aroclor 1260	0.121 mg/kg	0.100	mg/kg	0.166	<0.100 mg/kg	73.0	60-140	24.3	20	P
Surrogate: DCB	*0.0182*		mg/kg	*0.0328*		*55.6*	*30-105*			
Surrogate: TCMX	*0.0182*		mg/kg	*0.0331*		*55.0*	*30-105*			

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Certified Analyses included in this Report

Analyte	Certifications
SW8082A in Solids	
PCB as Aroclor 1016	VELAP,NC
PCB as Aroclor 1221	VELAP,NC
PCB as Aroclor 1232	VELAP,NC
PCB as Aroclor 1242	VELAP,NC
PCB as Aroclor 1248	VELAP,NC
PCB as Aroclor 1254	VELAP,NC
PCB as Aroclor 1260	VELAP,NC
SW8270D in Solids	
1,2,4,5-Tetrachlorobenzene	NC,VELAP
1,2,4-Trichlorobenzene	NC,VELAP
1,2-Dichlorobenzene	NC,VELAP
1,2-Diphenylhydrazine	NC,VELAP
1,3-Dichlorobenzene	NC,VELAP
1,4-Dichlorobenzene	NC,VELAP
1-Chloronaphthalene	NC,VELAP
1-Naphthylamine	NC,VELAP
2,3,4,6-Tetrachlorophenol	NC,VELAP
2,4,5-Trichlorophenol	NC,VELAP
2,4,6-Trichlorophenol	NC,VELAP
2,4-Dichlorophenol	NC,VELAP
2,4-Dimethylphenol	NC,VELAP
2,4-Dinitrophenol	NC,VELAP
2,4-Dinitrotoluene	NC,VELAP
2,6-Dichlorophenol	NC,VELAP
2,6-Dinitrotoluene	NC,VELAP
2-Chloronaphthalene	NC,VELAP
2-Chlorophenol	NC,VELAP
2-Methylnaphthalene	NC,VELAP

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Certified Analyses included in this Report

Analyte	Certifications
2-Naphthylamine	NC,VELAP
2-Nitroaniline	NC,VELAP
2-Nitrophenol	NC,VELAP
3,3'-Dichlorobenzidine	NC,VELAP
3-Methylcholanthrene	NC,VELAP
3-Nitroaniline	NC,VELAP
4,6-Dinitro-2-methylphenol	NC,VELAP
4-Aminobiphenyl	NC,VELAP
4-Bromophenyl phenyl ether	NC,VELAP
4-Chloroaniline	NC,VELAP
4-Chlorophenyl phenyl ether	NC,VELAP
4-Nitroaniline	NC,VELAP
4-Nitrophenol	NC,VELAP
7,12-Dimethylbenz (a) anthracene	NC,VELAP
Acenaphthene	NC,VELAP
Acenaphthylene	NC,VELAP
Acetophenone	NC,VELAP
Aniline	NC,VELAP
Anthracene	NC,VELAP
Benzidine	NC,VELAP
Benzo (a) anthracene	NC,VELAP
Benzo (a) pyrene	NC,VELAP
Benzo (b) fluoranthene	NC,VELAP
Benzo (g,h,i) perylene	NC,VELAP
Benzo (k) fluoranthene	NC,VELAP
Benzoic acid	NC,VELAP
Benzyl alcohol	NC,VELAP
bis (2-Chloroethoxy) methane	NC,VELAP
bis (2-Chloroethyl) ether	NC,VELAP

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Certified Analyses included in this Report

Analyte	Certifications
bis (2-Chloroisopropyl) ether	NC,VELAP
bis (2-Ethylhexyl) phthalate	NC,VELAP
Butyl benzyl phthalate	NC,VELAP
Chrysene	NC,VELAP
Dibenz (a,h) anthracene	NC,VELAP
Dibenz (a,j) acridine	NC,VELAP
Dibenzofuran	NC,VELAP
Diethyl phthalate	NC,VELAP
Dimethyl phthalate	NC,VELAP
Di-n-butyl phthalate	NC,VELAP
Di-n-octyl phthalate	NC,VELAP
Diphenylamine	NC,VELAP
Ethyl methanesulfonate	NC,VELAP
Fluoranthene	NC,VELAP
Fluorene	NC,VELAP
Hexachlorobenzene	NC,VELAP
Hexachlorobutadiene	NC,VELAP
Hexachlorocyclopentadiene	NC,VELAP
Hexachloroethane	NC,VELAP
Indeno (1,2,3-cd) pyrene	NC,VELAP
Isophorone	NC,VELAP
m+p-Cresols	NC,VELAP
Methyl methanesulfonate	NC,VELAP
Naphthalene	NC,VELAP
Nitrobenzene	NC,VELAP
n-Nitrosodimethylamine	NC,VELAP
n-Nitrosodi-n-butylamine	NC,VELAP
n-Nitrosodi-n-propylamine	NC,VELAP
n-Nitrosodiphenylamine	NC,VELAP

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Certified Analyses included in this Report

Analyte	Certifications
n-Nitrosopiperidine	NC,VELAP
o+m+p-Cresols	NC,VELAP
o-Cresol	NC,VELAP
p-(Dimethylamino) azobenzene	NC,VELAP
p-Chloro-m-cresol	NC,VELAP
Pentachloronitrobenzene	NC
Pentachlorophenol	NC,VELAP
Phenacetin	NC,VELAP
Phenanthrene	NC,VELAP
Phenol	NC,VELAP
Pronamide	NC,VELAP
Pyrene	NC,VELAP
Pyridine	NC,VELAP

Code	Description	Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2013
NC	North Carolina DENR	495	12/13/2013
VELAP	NELAC-Virginia	460021	06/15/2013
WVDEP	West Virginia DEP	350	11/01/2013

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Qualifiers and Definitions

L	LCS recovery is outside of established acceptance limits
M	Matrix spike recovery is outside established acceptance limits
P	Duplicate analysis does not meet the acceptance criteria for precision
RPD	Relative Percent Difference
Qual	Qualifers
-RE	Denotes sample was re-analyzed

AIR WATER & SOIL LABORATORIES, INC.

2109A NORTH HAMILTON STREET
RICHMOND, VIRGINIA 23230
(804) 358-8295 PHONE
(804)358-8297 FAX

CHAIN OF CUSTODY

PAGE _____ OF _____

COMPANY NAME: EEE Consulting Inc.	INVOICE TO: Chas Smith	PROJECT NAME/Quote #: 13-107
CONTACT: Chas Smith	INVOICE CONTACT: Chas Smith	SITE NAME:
ADDRESS: 8525 Bill Creek Pl. 23116	INVOICE ADDRESS:	PROJECT NUMBER: 13-107
PHONE #: 804 442-3330	INVOICE PHONE #:	P.O. #:
FAX #: 804-442-3334	EMAIL: CSmith@EEE-consulting.com	Pretreatment Program:
Is sample for compliance reporting? YES (NO)	Is sample from a chlorinated supply? YES (NO)	PWS I.D. #:
SAMPLER NAME (PRINT):	SAMPLER SIGNATURE:	Turn Around Time: 3 Day(s)

Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other_____

CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	TPH-ORO	SVOC	PCB						COMMENTS
1) B1A	x					5/29/13	11:00			1	x	x	x						
2) B1B	x						11:00			1	x	x	x						
3) B2A	x						11:15			1	x	x	x						
4) B2B	x						11:15			1	x	x	x						
5) B3A	x						11:30			1	x	x	x						
6) B3B	x						11:30			1	x	x	x						
7)																			
8)																			
9)																			
10)																			

Preservative Codes: N=Nitric Acid C=Hydrochloric Acid S=Sulfuric Acid H=Sodium Hydroxide A=Ascorbic Acid Z=Zinc Acetate T=Sodium Thiosulfate M=Methanol

PLEASE NOTE PRESERVATIVE(S), INTERFERENCE CHECKS or PUMP RATE (L/min)

RELINQUISHED:	DATE / TIME	RECEIVED:	DATE / TIME
[signature]	5/29/13	[signature]	29 MAY 2013 17:05
RELINQUISHED:	DATE / TIME	RECEIVED:	DATE / TIME
RELINQUISHED:	DATE / TIME	RECEIVED:	DATE / TIME

QC Data Package
- Level I ☐
- Level II ☐
- Level III ☐
- Level IV ☐

LAB USE ONLY COOLER TEMP 4.8 °C

13E0473

EEE 13E0473
Default Project
Recd: 05/30/2013 Due: 06/04/2013

v130325002

13.xls

TERMS & CONDITIONS

Where a purchaser (Client) places an order for laboratory, consulting or sampling services from Air Water & Soil Laboratories, Inc., a Virginia corporation (referred to as "Air Water & Soil "), Air Water & Soil shall provide the ordered services pursuant to these Terms and Conditions, and the related Quotation or Price Schedule, or as agreed in a negotiated contract. In the absence of a written agreement to the contrary, the Order constitutes an acceptance by the Client of Air Water & Soil's offer to do business under these Terms and Conditions, and an agreement to be bound by these Terms and Conditions. No contrary or additional terms and conditions expressed in a Client's document shall be deemed to become a part of the contract created upon acceptance of these Terms and Conditions, unless accepted by Air Water & Soil in writing.

1. ORDERS AND RECEIPT OF SAMPLES

1.1 The Client may place the Order (i.e., specify a Scope of Work) either by submitting a purchase order to Air Water & Soil in writing or by telephone subsequently confirmed in writing, or by negotiated contract (i.e. Chain of Custody). Whichever option the Client selects for placing the Order, the Order shall not be valid unless it contains sufficient specification to enable Air Water & Soil to carry out the Client's requirements. In particular, samples must be accompanied by: a) adequate instruction on type of analysis requested, and b) complete written disclosure of the known or suspected presence of any hazardous substances, as defined by applicable federal or state law. Where any samples which were not accompanied by the required disclosure, cause interruptions in the lab's ability to process work due to contamination of instruments or work areas, the Client will be responsible for the costs of clean up and recovery.

1.2 The Client shall provide one week's advance notice of the sample delivery schedule, or any changes to the schedule, whenever possible. Upon timely delivery of samples, Air Water & Soil will use its best efforts to meet mutually agreed turnaround times. All turnaround times are based on business days and will be calculated from the point in time when Air Water & Soil has determined that it can proceed with defined work following receipt, inspection of samples, and resolution of any discrepancies in Chain-of-Custody forms and project guidance regarding work to be done (Sample Delivery Acceptance). In the event of any changes in the sample delivery schedule by the Client, prior to Sample Delivery Acceptance, Air Water & Soil reserves the right to modify its turnaround time commitment, to change the date upon which Air Water & Soil will accept samples, or refuse Sample Delivery Acceptance for the affected samples.

1.2.1 Turn around times are defined as follows: Any sample group requiring a turnaround time of less than five(5) business days will be considered a "Rush Turn Around Time". Rush Turnaround samples received after 3:00pm will be considered as received on the next business day.

1.2.2 Air Water & Soil defines "standard turnaround" as Five (5) business days with exception made for Full TCLP analyses.

1.3 Air Water & Soil reserves the right, exercisable at any time, to refuse or revoke Sample Delivery Acceptance for any sample which in the sole judgment of Air Water & Soil : a) is of unsuitable volume; b) may pose a risk or become unsuitable for handling, transport, or processing for any health, safety, environmental or other reason, whether or not due to the presence in the sample of any hazardous substance and whether or not such presence has been disclosed to Air Water & Soil by the Client; or c) holding times cannot be met, due to passage of more than 48 hours from the time of sampling or 1/2 the holding time for the requested test, whichever is less.

1.4 Prior to Sample Delivery Acceptance, the entire risk of loss or damage to samples remains with the Client, except where Air Water & Soil provides courier services. In no event will Air Water & Soil have any responsibility or liability for the action or inaction of any carrier shipping or delivering any sample to or from Air Water & Soil 's premises. Client is responsible to assure that any sample containing any hazardous substance which is to be delivered to Air Water & Soil 's premises will be packaged, labeled, transported and delivered properly and in accordance with applicable laws.

2. PAYMENT TERMS

2.1 Services performed by Air Water & Soil will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedule. Quoted prices do not include sales tax. Applicable sales tax will be added to invoices where required by law. An Environmental Management Fee of 5% of the invoice value will also be applied, at Air Water & Soil's discretion.

2.2 Invoices may be submitted to Client upon completion of any sample delivery group. Billing corrections must be requested within 30 days of invoice date. Payment in advance is required for all Clients except those whose credit has been established with Air Water & Soil. For Clients with approved credit, payment terms are net 30 days from the date of invoice by Air Water & Soil. All overdue payments are subject to an additional interest and service charge of one and one half percent (1.5%) (or the maximum rate permissible by law, whichever is lesser) per month or portion thereof from the due date until the date of payment. All fees are charged or billed directly to the Client. The billing of a third party will not be accepted without a statement, signed by the third party, that acknowledges and accepts payment responsibility.

2.3 Air Water & Soil may suspend work and withhold delivery of data under this order at any time in the event Client fails to make timely payment of its invoices. Client shall be responsible for all costs and expenses of collection including reasonable attorney's fees. Air Water & Soil reserves the right to refuse to proceed with work at any time based upon an unfavorable Client credit report.

3. CHANGE ORDERS, TERMINATION

3.1 Changes to the Scope of Work, price, or result delivery date may be initiated by Air Water & Soil after Sample Delivery Acceptance due to any condition which conflicts with analytical, QA or other protocols warranted in these Terms and Conditions. Air Water & Soil will not proceed with such changes until an agreement with the Client is reached on the amount of any cost, schedule change or technical change to the Scope of Work, and such agreement is documented. Email communications are acceptable, telephone conversations however must be followed up with written documentation.

3.2 Changes to the Scope of Work, including but not limited to increasing or decreasing the work, changing test and analysis specification, or acceleration in the performance of the work may be initiated by the Client after sample delivery acceptance. Such a change will be documented in writing and may result in a change in cost and turnaround time commitment. Air Water & Soil's acceptance of such changes is contingent upon technical feasibility and operational capacity.

3.3 Suspension or termination of all or any part of the work may be initiated by the Client. Air Water & Soil will be compensated consistent with Section 2 of these Terms and Conditions. Air Water & Soil will complete all work in progress and be paid in full for all work completed.

4. WARRANTIES AND LIABILITY

4.1 Where applicable, Air Water & Soil will use analytical methodologies which are in substantial conformity with published test methods. Air Water & Soil has implemented these methods in its Laboratory Quality Manual and referenced Standard Operating Procedures and where the nature or composition of the sample requires it, Air Water & Soil reserves the right to deviate from these methodologies as necessary or appropriate, based on the reasonable judgment of Air Water & Soil , which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or Air Water & Soil 's Laboratory Quality Manuals. Client may request that Air Water & Soil perform according to a mutually agreed Quality Assurance Project Plan (QAPP). In the event that samples arrive prior to agreement on a QAPP, Air Water & Soil will proceed with analyses under its standard Quality Manuals then in effect, and Air Water & Soil will not be responsible for any re-sampling or other charges if work must be repeated to comply with a subsequently finalized QAPP.

4.2 Air Water & Soil shall start preparation and/or analysis within holding times provided that Sample Delivery Acceptance occurs within 48 hours of sampling or 1/2 of the holding time for the test, whichever is less. Where resolution of inconsistencies leading to Sample Delivery Acceptance does not occur within this period, Air Water & Soil will use its best efforts to meet holding times and will proceed with the work provided that, in Air Water & Soil 's judgment, the chain-of-custody or definition of the Scope of Work provide sufficient guidance. Reanalysis of samples to comply with Air Water & Soil 's Quality Manuals will be deemed to have met holding times provided the initial analysis was performed within the applicable holding time. Where reanalysis demonstrates that sample matrix interference is the cause of failure to meet any Quality Manual requirements, the warranty will be deemed to have been met.

4.3 Air Water & Soil warrants that it possesses and maintains all licenses and certifications which are required to perform services under these Terms and Conditions provided that such requirements are specified in writing to Air Water & Soil prior to Sample Delivery Acceptance.

4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by Air Water & Soil in connection with any services performed by Air Water & Soil or any Results generated from such services, and Air Water & Soil gives and makes NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of Air Water & Soil is authorized to give or make any other representation or warranty or modify this warranty in any way.

4.5 Client's sole and exclusive remedy for the breach of warranty in connection with any services performed by Air Water & Soil , will be limited to repeating any services performed, contingent on the Client's providing, at the request of Air Water & Soil and at the Client's expense, additional sample(s) if necessary. Any reanalysis requested by the Client generating Results consistent with the original Results will be at the Client's expense. If re-sampling is necessary, Air Water & Soil 's liability for re-sampling costs will be limited to actual cost or one hundred and fifty dollars ($150) per sample, whichever is less.

4.6 Air Water & Soil 's liability for any and all causes of action arising hereunder, whether based in contract, tort, warranty, negligence or otherwise, shall be limited to the lesser amount of compensation for the services performed or $100,000. All claims, including those for negligence, shall be deemed waived unless suit thereon is filed within one year after Air Water & Soil's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall Air Water & Soil be responsible for loss of use, loss of profits, or for any special, indirect, incidental or consequential damages occasioned by the services performed or by application or use of the reports prepared.

4.7 In no event shall Air Water & Soil have any responsibility or liability to the Client for any failure or delay in performance by Air Water & Soil which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of Air Water & Soil. Such causes and circumstances shall include, but not be limited to, acts of God, acts of Client, acts or orders of any governmental authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation, unavailability of supplies from usual suppliers, difficulties or delays in transportation, mail or delivery services, or any other cause beyond Air Water & Soil 's reasonable control.

5. RESULTS, WORK PRODUCT

5.1 Data or information provided to Air Water & Soil or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by Air Water & Soil of payment for the whole Order. Ownership of any analytical method, QA/QC protocols, software programs or equipment developed by Air Water & Soil for performance of work will be retained by Air Water & Soil, and Client shall not disclose such information to any third party.

5.2 Data and sample materials provided by Client or at Client's request, and the result obtained by Air Water & Soil shall be held in confidence (unless such information is generally available to the public or is in the public domain or Client has failed to pay Air Water & Soil for all services rendered or is otherwise in breach of these Terms and Conditions), subject to any disclosure required by law or legal process.

5.3 Should the Results delivered by Air Water & Soil be used by the Client or Client's client, even though subsequently determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual agreement. In no case shall the Client unreasonably withhold Air Water & Soil's right to independently defend its data.

5.4 Air Water & Soil reserves the right to subcontract services ordered by the Client to another laboratory or laboratories, if, in Air Water & Soil's sole judgment, it is reasonably necessary, appropriate or advisable to do so. Air Water & Soil will in no way be liable for any subcontracted services except for work performed at laboratories which have been audited and approved by Air Water & Soil.

5.5 Air Water & Soil shall dispose of the Client's samples 30 days after receipt of samples; 15 days after receipt of samples for BOD, CBOD and TSS analyses, unless instructed to store them for an alternate period of time or to return such samples to the Client, in a manner consistent with U.S. Environmental Protection Agency regulations or other applicable federal, state or local requirements. Any samples for projects that are canceled or not accepted, or for which return was requested, will be returned to the Client at his own expense. Air Water & Soil reserves the right to return to the Client any sample or unused portion of a sample that is not within Air Water & Soil's permitted capability or the capabilities of Air Water & Soil's designated waste disposal vendor(s). 5.6 Unless a different time period is agreed to in any order under these Terms and Conditions, Air Water & Soil agrees to retain all records for five (5) years.

5.7 In the event that Air Water & Soil is required to respond to legal process related to services for Client, Client agrees to reimburse Air Water & Soil for hourly charges for personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response, preparation to testify, and appearances related to the legal process, travel and all reasonable expenses associated with the litigation.

6. INSURANCE

6.1 Air Water & Soil shall maintain in force during the performance of services under these Terms and Conditions, Workers' Compensation and Employer's Liability Insurance in accordance with the laws of the states having jurisdiction over Air Water & Soil's employees who are engaged in the performance of the work. Air Water & Soil shall also maintain during such period, Comprehensive General and Contractual Liability (limit of $1,000,000 per occurrence/ $2,000,000 aggregate), Comprehensive Automobile Liability, owned and hired, ($1,000,000 combined single limit), and Professional/Pollution Liability Insurance (limit of $1,000,000 per occurrence/aggregate).

7. AUDIT

7.1 Upon prior notice to Air Water & Soil, the Client may audit and inspect Air Water & Soil's records and accounts covering reimbursable costs related to work done for the Client, for a period of two (2) years after completion of the work. The purpose of any such audit shall be only for verification of such costs, and Air Water & Soil shall not be required to provide access to cost records where prices are expressed as fixed fees or published unit prices.

8. MISCELLANEOUS PROVISIONS

8.1 These Terms and Conditions, together with any additions or revisions which may be agreed to in writing by Air Water & Soil , embody the whole agreement of the parties and provide the only remedies available. There *are no promises, terms,* conditions, understandings, obligations or agreements other than those contained herein, and these Terms and Conditions shall supersede all previous communications, representations, or agreements, either verbal or written, between the Client and Air Water & Soil . These Terms and Conditions, and any transactions or agreements to which they apply, shall be governed both as to interpretation and performance by the laws of the state where Air Water & Soil's services are performed.

8.2 The invalidity or unenforceability, in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder to these Terms and Conditions, the intent of the parties being that the provisions be severable. The section headings of these Terms and Conditions are intended solely for convenient reference and shall not define, limit or affect in any way these Terms and Conditions or their interpretations. No waiver by either party of any provision, term or condition hereof or of any obligation of the other party hereunder shall constitute a waiver of any subsequent breach or other obligation.

8.3 The obligations, liabilities, and remedies of the parties, as provided herein, are exclusive and in lieu of any others available at law or in equity. Indemnifications, releases from liability and limitations of liability shall apply, notwithstanding the fault, negligence or strict liability of the party to be indemnified, released, or whose liability is limited, the extent of sole negligence or willful misconduct.

AIR WATER & SOIL Laboratories, Inc.
2109A North Hamilton Street • Richmond, Virginia 23230 • Tel : (804) 358-8295 Fax: (804) 358-8297

13E0473

EEE
Default Project
Recd: 05/30/2013 Due: 06/04/2013
v130325002

Sample Conditions Checklist

13E0473

Opened by: (Initials) JHM **Lab ID No.:**

Date Cooler Opened:

		YES	NO	N/A
1.	How were samples received? Fed Ex ☐ UPS ☐ Courier ☐ Walk In ☑			
2.	Were custody seals used?	☐	☑	☐
3.	If yes, are custody seals unbroken and intact at the date and time of arrival?	☐	☐	☑
4.	Are the custody papers filled out completely and correctly?	☑	☐	☐
5.	Do all bottle labels agree with custody papers?	☑	☐	☐
6.	Are the samples received on ice?	☑	☐	☐
7.	Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C)	☑	☐	☐
8.	Are all samples within holding time for requested laboratory tests?	☑	☐	☐
9	Is a sufficient amount of sample provided to perform the tests indicated?	☑	☐	☐
10	Are all samples in proper containers for the analyses requested?	☑	☐	☐
11	Are all samples appropriately preserved for the analyses requested?	☑	☐	☐
12	Are all volatile organic containers free of headspace?	☐	☐	☑
13	Is Trip blank provided with each VOC sample set? Circle applicable method: (Document if trip blank is not received with the sample set)	☐	☐	☑

EPA 8011 EPA 504 EPA 8260 EPA 624

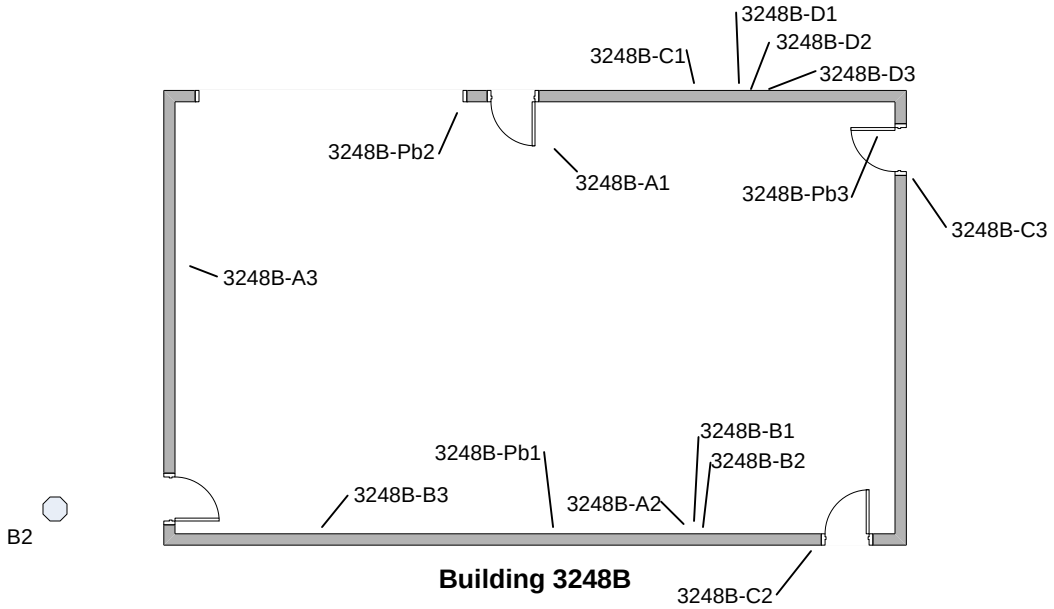
RSK-175 EPA 8015 (GRO) EPA 8021

EPA 524 GRO Wisconsin DNR (water and/or methanol trip blank must be provided)

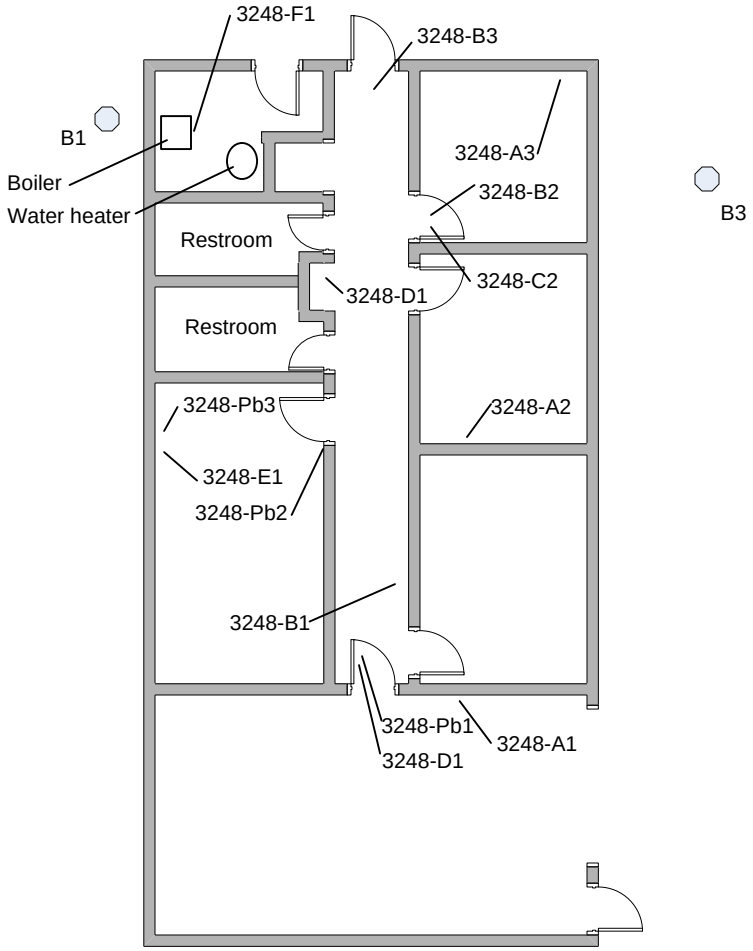
COMMENTS

Attachment B

Sampling Collection Site Diagram



Building 3248B



Building 3248

Note: Not to scale

EEE Consulting, Inc.
Environmental, Engineering and Educational Solutions

P-1406 Air Traffic Control Transmitter/Receiver Relocation
Buildings 3248 and 3248B
Quantico Marine Corps Base