DRAFT
TARGETED BROWNFIELDS ASSESSMENT REPORT
FORMER BALTIC MILLS SITE
SPRAGUE, CONNECTICUT
EPA RFA No. 09046

Prepared for:

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Region 1

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1.0 INTRODUCTION

On behalf of the US Environmental Protection Agency (EPA) Region 1, Advanced Environmental Solutions (AES) of Worcester, Massachusetts prepared this Targeted Brownfields Assessment (TBA) Report for the former Baltic Mills property located at 29 Bushnell Hollow Road in Sprague, New London County, Connecticut (the Site). The objective for the TBA was to obtain data to characterize impacts to Site soil and groundwater from historical use and to develop a remedial action plan to support the EPA and the Town of Sprague (property owner), with the planning and implementation of remedial actions.

This TBA Report was prepared in accordance with the EPA-approved Field Task Work Plan (FTWP) for the site which was prepared by AES in April 2009 and used to complete the work.

2.0 SITE DESCRIPTION AND BACKGROUND INFORMATION

The former Baltic Mills Site is located at 29 Bushnell Hollow Road in the Town of Sprague, Connecticut. The Site is approximately 16.5 acres in size and is currently zoned for industrial use. It is bounded by Route 97 (Scotland Road) to the west, Route 138 (Bushnell Hollow Road) to the north, and the Shetucket River to the east and south (**Figures 1** and **2**). A portion of the site is located on a peninsula across the former tailrace canal, adjacent to the Nutmeg Wire Company. The Site is currently owned by the Town of Sprague.

The 27 Bushnell Hollow Road property abuts the northern boundary of the Site and includes the dilapidated remains of the former Buildings 6 and 7, the former pump room, and the boiler which were all part of the original mill complex **(Figure 2).** The property at 27 Bushnell Hollow Road is not included in this TBA Report. Most of the original mill complex located on the Site was destroyed in a fire in August 1999. The Picker Building, which formerly housed the Baltic Hardware store, was also destroyed in the fire.

2.1 Adjacent Properties

To the east and west of the site is mostly undeveloped; however some residential properties and an elderly housing development are located adjacent to the Site. To the north of the site, across Bushnell Hollow Road is the Sprague Fire Department, the Sprague Highway Department, a Stockhouse Building (Mattern Construction, J&D Embroidering and Silk Printing), and a former oil distribution facility

(Baltic Oil). South of the tailrace canal is the Nutmeg Wire Company property, adjacent to the southern portion of the Site located on what is referred to as the peninsula.

The peninsula area, adjacent to the Nutmeg Wire Company property, is of particular interest due to the identification of fill material, including coal slag. A coal gasification works and holder (once part of the mill operations) is reported to have previously existed on Site near the northeastern corner of the Nutmeg Wire property.

2.2 Site History and Use

The Site has been used for industrial purposes since 1857, when William Sprague constructed a water-powered cotton mill on the Site. The mill was partially destroyed by a flood in 1876, and then entirely destroyed by a fire in 1877. Ponemah Mill, Inc. purchased the property in 1892, and constructed another textile mill, including a new headrace and tailrace, in 1893. The former canal was filled in during construction. The Baltic Power Company purchased the property in 1894, and operated the textile mill from 1901 until 1967. Textile manufacturing operations ceased in 1967. Several other companies operated in the mill from the 1980s through the late 1990s, including a small boat building business and a retail hardware store. Most of the mill building was destroyed by a fire in August 1999.

Year	Site Use/Description	Source
1857	Cotton mill built by Amasa and William Sprague	History And Architectural Resource Survey of the Town of Sprague (G. Russano and M. Donohue) 2002.
1876	Flood destroyed 90 feet of upstream end of mill. Building restored.	Same
1877	Fire destroyed entire mill.	Same
1892	Ponemah Mill, Inc. purchases property	Same
1893	Mill building reconstructed; canal on northern side of main mill filled in around this time frame	Same
1894	Baltic Power Company purchases property and textile operations initiated in 1901 (Sayles).	Same
1967	Mill operations cease.	Same
1980s, 1990s	Several small marine/boat building companies occupied portions of the mill	CTDEP correspondence

A coal gasification works and holder previously existed on site near the northeastern corner of the

Nutmeg Wire property. This was used by Baltic Mill prior to circa 1900, as indicated on old plans and photographs.

2.3 Results of Previous Investigations

Several environmental assessments have occurred at the site. A summary of the recognized environmental conditions (RECs) are included below:

In 2005, GEI consultants conducted a Phase I Environmental Site Assessment (ESA) for the Town of Sprague to evaluate the potential presence of oil and/or hazardous materials at the Site. GEI created a list of RECs for the property. These include:

- Two 50,000-gallon, concrete No. 6 fuel oil tanks previously existed on site and were removed in 1989. Confirmation samples were not taken after the tanks were removed. Residual contaminated soil could exist.
- Solid waste (metal, wood) and potential asbestos was intermixed with the building masonry and granite debris, which remains on site.
- Significant fires of the magnitude that occurred on site produce polycyclic aromatic hydrocarbon compounds (ash) which can result in on-site surficial soil contamination.
- Fill and some solid waste exist on the eastern side of the site, on the northern side of the tailrace.
- The original canal, which ran along the northern side of the main mill building, was filled in circa 1893. The nature and exact location of the fill is unknown.
- Coal ash is reported to exist on the northern side of the tailrace and south of the former main mill building.
- A coal gasification works and holder previously existed partially on site near the northeastern corner of the Nutmeg Wire property. These facilities can produce coal tar as a by-product and residual contamination may exist.
- Wastewater was historically discharged to the tailrace, which could have resulted in chemical impacts to the tailrace sediments. This included a septic tank and discharge pipe near the former footbridge. The specific chemical characterization of these discharges is not known.

EPA conducted a Targeted Brownfields Assessment at the Site in March 2006. The purpose of the TBA was to assess the presence or absence of oil and/or hazardous materials (OHM) in soil and groundwater at the Site. In March 2006, six soil borings were advanced across the Site and groundwater monitoring wells were constructed in five of the borings. Soil samples were collected from the soil borings at continuous 2-foot intervals and were field screened for organic vapors with a photoionization detector using a jar headspace screening methodology. Two soil samples from each boring were submitted for laboratory analyses of volatile organic compounds (VOCs), extractable total petroleum hydrocarbons (ETPH), semi-volatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), metals, Synthetic Precipitation Leaching Procedure (SPLP) metals, cyanide, and pH. Two-inch diameter Schedule 40 polyvinyl-chloride (PVC) monitoring wells were constructed at five of the six boring locations. Groundwater samples were collected for laboratory analyses for VOCs, SVOCs, metals, cyanide, pesticide/PCBs, and ETPH (TTNUS, 2006).

Soil contamination above applicable CTDEP criteria was found in borings SB-3 (the coal ash area) and SB-6 (the UST area). One groundwater sample exceeded Surface Water Protection Criteria (SWPC); otherwise, no additional groundwater contaminant concentrations were detected above the applicable CTDEP criteria.

The groundwater sample collected from monitoring well MW-03 reported a phenanthrene concentration greater than that of the SWPC. Groundwater samples collected from monitoring wells MW-05 and MW-03 reported contaminant concentrations greater than the GA/GAA groundwater criteria; however, those criteria are not applicable to this Site since it is currently zoned GB (TTNUS, 2006).

Soil analytical results from a sample collected from boring SB-3, which is located along the tailrace canal, indicates coal ash/fill contamination was present. The 2- to 4-foot below grade (bg) sample exceeded the Industrial/Commercial Direct Exposure Criteria for the SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)flouranthene, and dibenzo(a,h)anthracene.

Analytical results from a soil sample collected from boring SB-6, which located near the former #6 fuel oil UST, indicated petroleum contamination was present. The 0- to 2-foot bg and 14- to 16-foot bg interval samples exceeded the Industrial/Commercial Direct Exposure Criteria and the GB Pollutant Mobility Criteria for ETPH, aluminum, and benzo(a)pyrene. No other parameters exceeded the applicable reporting categories (I/C DEC or GB PMC) for soil (TTNUS, 2006).

3.0 SITE RECONNAISSANCE AND FIELD INVESTIGATIONS

AES conducted field work for this TBA on April 23, 2009; May 18, 2009 through May 20, 2009; September 2, 2009; and October 7, 2009. The field work was conducted in accordance with an EPA approved Field Task Work Plan, prepare by AES and dated April 2009.

On April 23, 2009, a Site reconnaissance was conducted in order to mark the test pit and soil sampling locations. These proposed test pit and soil boring locations were marked by staking/flagging. The Site was also marked for utility clearance (Call Before You Dig). During this Site visit, AES also visited the Town of Sprague Municipal Offices to coordinate the assessment activities with the town officials. From May 18, 2009 through May 20, 2009, 33 test pits were excavated, logged, and subsurface soil samples were collected.

On September 2, 2009, one monitoring well (MW-6) was installed in the vicinity of the former UST area. No soil samples were collected during the installation of monitoring well MW-6. On October 7, 2009, one groundwater sample was collected from the newly installed monitoring well for laboratory analyses.

3.1 Subsurface Soil Sampling

Between May 18, 2009 and May 20, 2009, AES subcontracted with TMC Services, Inc. (TMC) of Bellingham, Massachusetts, a licensed environmental contractor for test pit excavation services. Field investigation activities at the Site included the excavation of 33 test pits and the collection of soil samples for field screening and laboratory analysis. TMC field personnel excavated the test pits using a Caterpillar Excavator, Model No. 305. A mini-excavator was utilized to excavate test pits throughout the peninsula area located on the south side of the tailrace and north of the Shetucket River.

The location of the test pits can be grouped into three general areas, which are described herein as Groups 1, 2, and 3. The test pit locations can be seen on **Figure 3**.

Group 1 (TP-01 to TP-10)

Excavation of test pits TP-01 through TP-10 were excavated in the area of the former two 50,000-gallon no. 6 fuel oil tanks. Samples were field screened and collected for laboratory analyses to evaluate and delineate petroleum impacts to soil to assess for other potential contaminants of concern including coal

ash/slag. These samples were analyzed for ETPH, SVOCs, Priority Pollutant 13 (PP-13) metals metals, polynuclear aromatic hydrocarbons (PAHs), and VOCs.

Group 2 (TP-11 to TP-23)

Excavation of test pits TP-11 through TP-23 were excavated throughout the area around the former mill building north of the tailrace to assess the extent and nature of the fill throughout the area and to characterize the types of fill material. Soil samples from each test pit were field screened and select samples were submitted for laboratory analyses. Samples selected for laboratory analyses were based on field observations and/or field screening results. Samples were analyzed for ETPH, SVOCs, PP-13 metals, and VOCs.

Group 3 (TP-24 to TP-33)

Test pits TP-24 through TP-33 were excavated on the Peninsula area to assess the soil and fill in that area of the Site for potential impact from historical use. Notably, the area where the former coal gasification plant was reportedly located was a particular focus of this effort. Soil samples were collected and field screened and select samples were submitted for laboratory analyses. Samples were selected based on field observations, where evidence indicated fill or contamination such as coal, coal slag, ash, etc., and field screening results. Soil samples were analyzed for ETPH, SVOCs, PP-13 metals, and VOCs.

For all three groups, test pit observations were logged and characterized, including any evidence of impact by OHM. OHM observations included descriptions of soil zones, visual appearance, and field screening results, including PID readings. The presence of ash/slag, debris, fill, and water saturation (water table) were also recorded in field books. The test pit locations are shown on **Figure 3** and test pit logs are included in **Appendix A**.

Group 1 (TP-01 to TP-10) Field Observations

Ten test pits were excavated in the area of the former two 50,000-gallon no. 6 fuel oil tanks, located north of the current building remaining on the Site. Test pits (TP-01 through TP-10) were excavated to depths ranging from 11 feet (ft) bg to 17 ft bg. PID readings during the advancement of test pits TP-01, TP-03 through TP-05, and TP-08 through TP-10 ranged from 0.0 to 3.4 parts per million by volume

(ppmv). The soil in the vicinity of the Group 1 test pits was observed to be fine to medium sand with trace amounts of brick, concrete, and/or other debris. Notable observations from test pits TP-02, TP-06, and TP-07 are discussed as follows.

- Test pit TP-02. TP-02 was located in the southwestern corner of the former UST area. PID readings during the advancement of TP-02 ranged from 0.0 to 71.5 ppmv. The 71.5 ppmv reading was collected from a soil sample at a depth of 8 ft bg. Throughout the advancement of TP-02, building debris and rebar were observed at depths ranging from 1ft through 11ft bg. This is believed to be in the proximity of the former USTs. At 8 ft bg, a dark gray fine to medium sand was observed. The gray sand had a distinct petroleum-like odor. The dark grey sand was field screened and exhibited the PID reading of 71.5 ppmv. One soil sample collected at 8 ft bg was submitted for laboratory analyses.

- Test pit TP-06. TP-06 was located along the north-central boundary of what is believed to be the former UST area. The location of the test pit is along the sloping incline of the bank that rises from the UST area to Route 138. PID readings during the advancement of TP-06 ranged from 1.0 to 81.6 ppmv. The 81.6 ppmv reading came from a soil sample that was collected at a depth of 12 ft bg. From 6 ft to 11 ft bg, black tar-like clusters were observed along the walls of the test pit and a slight petroleum-like odor was noted. Soil was screened with a PID from 6 ft to 11 ft bg. The PID reading for the 6 ft to 11 ft bg sample was 1.0 ppmv. Soil screened at 12 ft bg exhibited a PID reading of 81.6 ppmv. Soil from 15 ft to 17 ft bg exhibited a PID reading of 8.1 ppmv and had a petroleum-like odor. At 17 ft bg, an oil-like liquid was observed seeping into the excavation. The bottom of the excavation was at 17 ft bg. Soil samples were collected at 6 ft and 12 ft bg for laboratory analyses.

- Test pit-TP 07. TP-07 was advanced upslope from TP-06 in an effort to obtain more information regarding the source of the oil-like seep observed in TP-06. From 6 ft to 9 ft bg, black tar-like clusters were observed along the walls of the test pit. Soil screened at 14 ft bg exhibited a PID reading of 72.5 ppmv and was observed to have a petroleum-like odor. The bottom of the excavation was at 14' below grade. A soil sample was collected at 14' bg for laboratory analysis.

Group 2 (TP-11 to TP-23) Field Observations

Thirteen test pits were advanced around the former mill building and north of the tailrace assess the nature and extent of the fill and to assess potential impacts from historic activities throughout the area. Test pits (TP-11 through TP-23) were advanced to depths ranging from 5 ft to 14 ft bg. PID readings from soil samples collected from test pits TP-11 through TP-23 ranged from 0.0 ppmv to 0.4 ppmv. The soil in the vicinity of the Group 2 test pits was observed to be mostly fine to medium sand with trace

amounts of ash, brick, and/or other debris. Layers of ash were observed throughout the Group 2 test pits. The following table lists the depths where ash layers were observed:

Test Pit Designation	Depth of observed Ash layer (feet below grade)
TP-13	8
TP-14	2, 5, & 8
TP-17	5
TP-18	2.5
TP-19	2
TP-21	8

Group 3 (TP-24 to TP-33) Field Observations

Ten test pits were advanced in the Peninsula area to assess the nature and extent of the fill and to identify potential impacts from historic activities. Test pits (TP-24 through TP-33) were advanced to depths ranging from 3.5 ft to 10 ft bg. PID readings during the advancement of test pits TP-24 through TP-33 were all reported at 0.0 ppmv. The soil in the vicinity of the Group 3 test pits was observed to be very fine to medium sand with trace amounts of ash, gravel, and silt. Layers of ash were observed in four Group 3 test pits. The following is a table depicts these test pits and the associated depths where ash layers were observed:

Test Pit Designation	Depth of observed Ash layer (feet below grade)
TP-28	4-6.5
TP-29	3
TP-30	4-5
TP-33	5.5-8

3.2 Monitoring Well Installation

On September 2, 2009, AES retained Crawford Drilling Services (CDS), Inc. of Westminster Massachusetts, a licensed company for environmental drilling services, to advance one soil boring in the former UST area and to install one monitoring well. CDS conducted drilling activities using a Diedrich D-120 drill rig. One monitoring well (MW-6) was installed in the vicinity of the former UST area. The location of the well was determined based on field observations made during the test pit activities. The well is located in the vicinity of TP-6, where the oil-like seepage was observed. CDS advanced the soil

boring to 14 ft bg. From 14 ft to 31 ft bg, an air hammer was used to complete the soil boring to a depth of approximately 31 ft bg. Depth to water was observed to be approximately 23 ft bg; however, it should be noted that the previous weeks had experienced abnormally high rainfall. The location of the well is depicted on **Figure 3** and the monitoring well log can be seen in **Appendix A.**

3.3 Geologic and Hydrogeologic Conditions

Based on available information on local subsurface geology, the majority of the subsurface soil is a fine to medium grained sand. The bedrock is mapped as Putnam Gneiss, though the depth to bedrock is unknown. The groundwater is generally 19 to 26 ft below grade (less in the Peninsula area) and the general groundwater flow direction is inferred to be to the south toward the Shetucket River.

CTDEP has classified the Site as a GB groundwater area. The GB classification indicates groundwater within a historically urbanized area where public water service is available and which may not be suitable for use as a drinking water supply without prior treatment due to waste discharges, spills, or leaks of chemical or land use impacts.

Surface water drainage from the property would be expected to enter the Shetucket River to the south and east of the Site. The Shetucket River is classified as a Class B waterway. The Class B classification applies to waters designated for habitat for fish, other aquatic life and wildlife; and for primary and secondary contact recreation.

4.0 REVIEW OF ANALYTICAL DATA

The field and analytical data from the site investigation conducted by AES are presented and discussed by media in this section. The results of the analyses conducted on each soil sample are summarized in **Table 1**. All analyses were performed in accordance with the CTDEP Reasonable Confidence Protocol (RCP) Documents, with Reasonable Confidence certification from the laboratory. Deviations from the QC criteria established in the RCP methods, and any other items the laboratory manager felt were worthy of note, were discussed in the laboratory case narratives that accompanied the data packages. The laboratory data packages are provided in **Appendix B**.

4.1 Data Usability Assessment

Soil samples were submitted to ESS Laboratory (Cranston, Rhode Island) for analysis according to the CTDEP RCP Documents. Analyses performed included VOCs, SVOCs, ETPH, PAHs, PP-13 metals, and total cyanide. Field quality control (QC) samples were collected and submitted for laboratory analysis to monitor and evaluate laboratory and sampling performance. The field QC samples collected included trip blanks (VOCs only), field duplicates, and matrix spike/matrix spike duplicate samples.

AES conducted an analytical data usability evaluation for each soil sample delivery group (SDG). The evaluation was based on the CTDEP RCP documents and EPA Region I data validation guidelines. The purpose of the evaluation was to determine whether analytical data are usable for direct comparison to CTDEP Remediation Standard Regulation (RSR) criteria and to support decisions regarding remediation of the site. A worksheet was completed for each SDG that includes an evaluation of sensitivity; accuracy/bias, precision, and whether rejection of any data is necessary, based on the rejection criteria (based on EPA Region I data validation guidelines). The analytical data are shown on **Table 1** (soil) and **Table 2** (groundwater). On these tables, instances are flagged where sample-specific laboratory reporting limits (RLs) exceeded CTDEP RSR criteria applicable to the site. Calculations of Relative Percent Differences for field duplicates are shown either within the worksheets or on a separate table attached to the appropriate worksheet. The evaluation included the following:

Sensitivity:

- Comparison of RLs to the CTDEP RSR criteria applicable to the site, to determine if non-detected results for analytes of interest may be used to conclude whether standards are exceeded.

- Examination of field and laboratory blank results to determine if there were detections that could result in qualification of field sample data, if validation were performed using EPA Region I Tier II guidelines.

Accuracy/Bias:

- Review of surrogate recoveries in all field samples to determine if there might be low or high bias for certain analytes in certain samples, and documentation of such instances.

- Review of site-specific MS/MSD sample recoveries and documentation of possible low or high bias for certain analytes, including consideration of whether potential bias should be applied to the MS/MSD sample only, or all associated field samples.

- Review of laboratory QC sample recoveries (Laboratory Control Samples and Laboratory Fortified Blanks) for possible low or high biases, and documentation of such instances.

Precision:

- Calculation of Relative Percent Difference (RPD) for field duplicate results, and evaluation of whether RPD criteria were met, or if poor precision is indicated for certain analytes.

- Review of RPDs for site-specific MS/MSDs and documentation of analytes where RPDs did not meet criteria.

- Review of RPDs for laboratory duplicates and documentation of analytes where RPDs did not meet criteria.

Rejection Criteria:

- Review of case narrative for possible holding time exceedances and other conditions that might indicate that data should be rejected.

- Review of recoveries for situations where very low recoveries indicate that non-detected results should be rejected.

Soil

The results of the evaluation of the site soil analytical data indicate that the data analyses are acceptable for use with minor limitations such as poor precision likely due to sample heterogeneity based on field duplicate or MS/MSD RPDs and low bias possibilities for selected SVOCs and metals due to low surrogate or low MS/MSD recoveries. With respect to sensitivity, several VOCs in soil samples TP-02, TP-04, TP-06, TP-07, TP-28, TP-30, TP-33 and TP-34 have reporting limits above the applicable CTDEP RCP criteria. Additionally, several PAH compounds in soil samples TP-02, TP-04 and TP-07 have reporting limits above the applicable RCP criteria.

Groundwater

The results of the evaluation of the site groundwater analytical data indicate that the data analyses are acceptable for use with minor limitations. With respect to sensitivity, several EPH compounds in MW-6 (Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)Anthracene, and Indeno(1,2,3-cd)Pyrene), have reporting limits above the applicable CTDEP RCP criteria.

All of the data are considered usable for this report. The data evaluation worksheets for each soil and groundwater SDG are included in **Appendix C** and should be consulted for further details regarding the data evaluation procedure and rejection criteria.

4.2 Laboratory Analytical Results

On **Tables 1** and **2**, the CTDEP RSR criteria applicable to the site are presented for comparison to data obtained from soil and groundwater samples. This information is provided to evaluate the extent of contamination requiring remediation. Data were evaluated against the Residential Direct Exposure Criteria (RES DEC) because of the planned residential use of the property.

A discussion of the results is provided below.

4.2.1 Subsurface Soil

Group 1 (TP-01 to TP-10). Laboratory analytical results reported the following concentrations above applicable CTDEP Residential Direct Exposure Criteria.

- Total petroleum hydrocarbons (TPH) from soil samples collected from test pits TP-02, TP-04, TP-6, and TP-07.

Group 2 (TP-11 to TP-23). Laboratory analytical results reported the following concentrations above applicable CTDEP Residential Direct Exposure Criteria.

- Lead from soil samples collected from test pits TP-13, and TP-19;
- Benzo(a)anthracene from soil samples collected from test pits TP-17, and TP-19; and
- Benzo(a)pyrene, Benzo(b)flouranthene, Dibenzo(a,h)anthracene, and Indeno(1,2,3-cd)pyrene from soil samples collected from test pit TP-19.

Group 3 (TP-24 to TP-33). Laboratory analytical results reported the following concentrations above applicable CTDEP Residential Direct Exposure Criteria.

- TPH from soil samples collected from test pits TP-33, and TP-34;
- Benzo(a)anthracene from soil samples collected from test pits TP-27, TP-30, TP-33, and TP-34;
- Benzo(a)pyrene from soil samples collected from test pits TP-27, TP-30, TP-33, and TP-34;
- Benzo(b)flouranthene from soil samples collected from test pits TP-30, TP-33, and TP-34;
- Benzo(k)flouranthene from soil samples collected from test pits TP-30, TP-33, and TP-34;
- Chrysene from soil samples collected from test pit TP-34;

- Dibenzo(a,h)anthracene from soil samples collected from test pits TP-30, TP-33, and TP-34; and
- Indeno(1,2,3-cd)pyrene from soil samples collected from test pits TP-30, TP-33, and TP-34.

The laboratory analytical results are summarized in **Table 1**. Copies of the laboratory analytical reports are included in **Appendix B**.

4.2.2 Groundwater

Groundwater sampling was conducted in accordance with guidance described in the *US EPA Region I Low Stress (low flow) Purging And Sampling Procedure For The Collection Of Groundwater Samples From Monitoring Wells*, dated July 30, 1996. The collected groundwater sample from monitoring well MW-6 was analyzed for EPH with target analytes via the MADEP-EPH method.

With respect to sensitivity, several EPH compounds in the groundwater sample are reported as undetected; however, the reporting limits were above the applicable CTDEP RCP criteria. The following is a list of those compounds:

- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- Chrysene
- Dibenzo(a,h)Anthracene
- Indeno(1,2,3-cd)Pyrene

The remaining EPH target analytes were below laboratory detection limits.

According to the laboratory analytical report, low concentrations of the following compounds were detected in MW-6:

- C_{11}-C_{22} aromatic hydrocarbons
- C_{19}-C_{36} aliphatic hydrocarbons
- C_{9}-C_{18} aliphatic hydrocarbons

Groundwater standards for the above hydrocarbon fractions were obtained from the Massachusetts Contingency Plan, 310 CMR 40.0970, Revised December 2007. The CTDEP does not have established standards for the above carbon fractions.

The laboratory analytical results are summarized in **Table 2**. A copy of the laboratory analytical report is included in **Appendix B**.

5.0 SUMMARY OF TBA FINDINGS

This section presents a summary of findings from the TBA conducted at the Site. The findings presented include field observations and field and laboratory analytical data as discussed in **Sections 3.0** and **4.0**.

5.1 Subsurface Soil

- Field observations and laboratory analysis reveal that soil samples form the Group 1 test pits TP-02, TP-04, TP-6, and TP-07 in the former UST area were impacted by petroleum product.

- Apparent ash-like material was observed in the Group 2 test pits TP-13, TP-14, TP-17, TP-18, TP-19, and TP-21 and Group 3 test pits TP-28, TP-29, TP-30, and TP-33. The depths of the ash-like material ranged from approximately 2 to 8 feet below grade.

- A total of 31 soil samples were collected from test pits and analyzed for VOCs, ETPH, PAHs, PP-13 metals, and/or total cyanide.

- Elevated concentrations of TPH, exceeding the CTDEP Residential Direct Exposure Criteria, were reported in soil samples collected from Group 1 (former UST area) test pits TP-02, TP-04, TP-6, and TP-07. The depths that these samples were collected were approximately 8 to 14 feet below grade.

- Elevated concentrations of lead were more sporadic with lead concentrations in two samples from Group 2 test pits TP-13 (1 ft bg) and TP-18 (2.5 ft bg) exceeding the CTDEP Residential Direct Exposure Criteria. PAHs were also detected above the CTDEP Residential Direct Exposure Criteria in two samples from Group 2 test pits TP-17 (5 ft bg) and TP-19 (2 ft bg).

- Elevated concentrations of TPH were more sporadic with TPH concentrations in two samples from Group 3 test pits TP-33 (6-7 ft bg) and TP-34 (6-7 ft bg) exceeding the CTDEP Residential Direct Exposure Criteria. PAHs were also detected above the CTDEP Residential Direct Exposure Criteria in four samples from Group 3 test pits TP-27 (0-6 ft bg), TP-30 (4-4.5 ft bg), TP-33 (6-7 ft bg), and TP-34 (6-7 feet).

- Cyanide was not detected in any soil samples. VOCs were detected in some soil samples but were below CTDEP Residential Direct Exposure Criteria.

Based on this data, further remedial actions are likely warranted to address direct exposure concerns, assuming future use as a residential area. Contaminants of concern (COCs) include lead, TPH, and PAHs in the soil. A more rigorous site-specific risk characterization should be conducted for this site prior to finalizing future redevelopment plans.

5.2 Groundwater

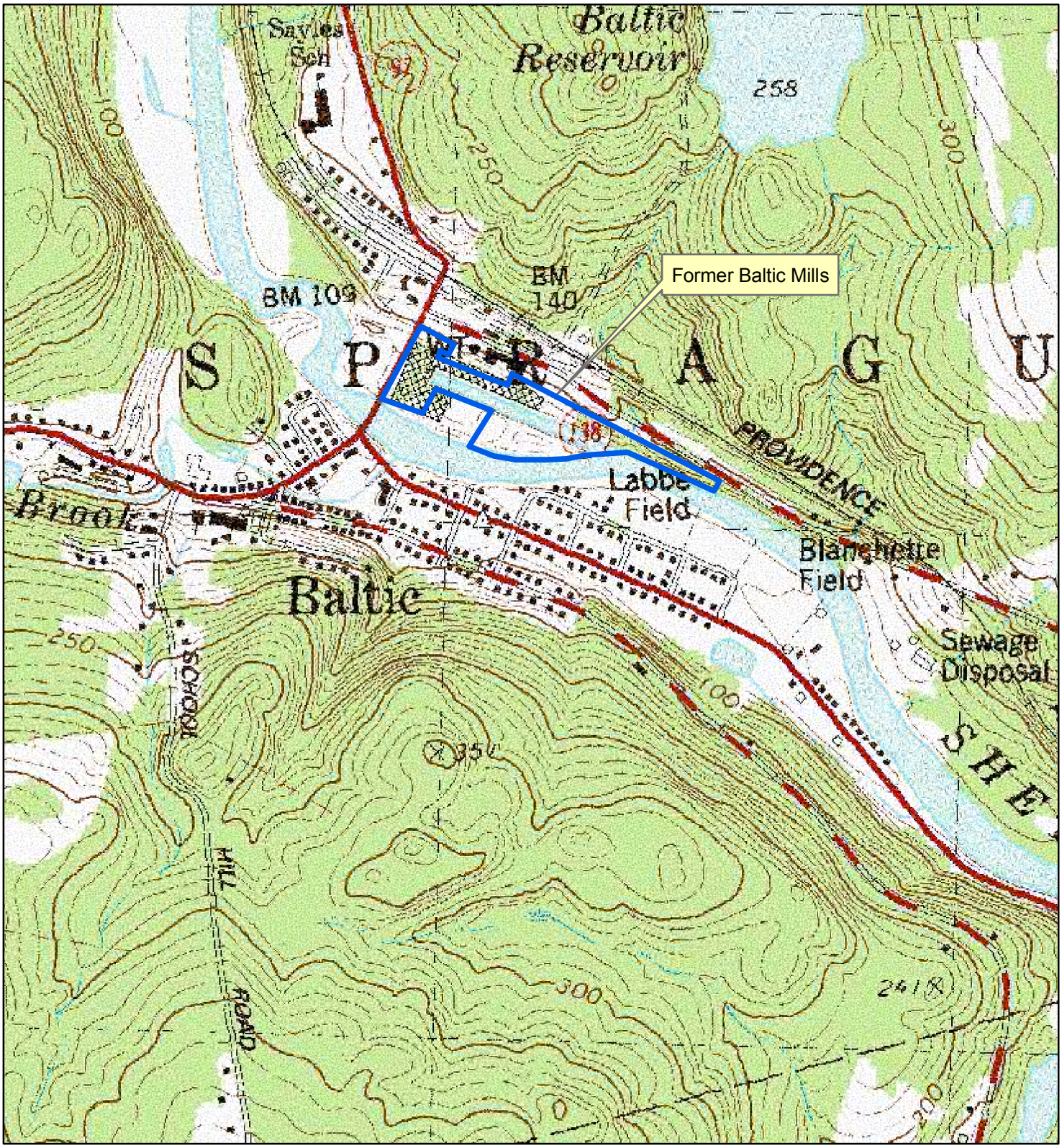
Laboratory analyses of the groundwater sample collected from MW-6 reveal that groundwater in the vicinity of the former UST area has been impacted by petroleum-related constituents. According to the laboratory analytical report, low concentrations of C_{11}-C_{22} aromatic hydrocarbons, C_{19}-C_{36} aliphatic hydrocarbons, and C_9-C_{18} aliphatic hydrocarbons were detected in the groundwater sample collected from MW-6: Based on this data, remedial actions are warranted to address direct exposure concerns, assuming future use as a residential area. COCs include carbon fractions in the groundwater. A more rigorous site-specific risk characterization should be conducted to evaluate potential health risks relative to groundwater impacts.

6.0 REFERENCES

Advanced Environmental Solutions, Inc. (with support from AECOM), *Final Field Task Work Plan, Brownfields Targeted Site Assessment*, dated April 2009.

Tetra Tech NUS, Inc. 2006. *Draft Targeted Brownfields Assessment, Baltic Mills Site, Sprague, Connecticut.* August 2006.

FIGURES



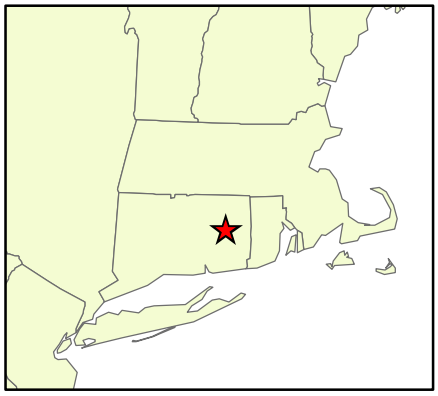


FIGURE 1
SITE LOCUS

Former Baltic Mills
29 Bushnell Hollow Road
Sprague, Connecticut

Source: MassGIS

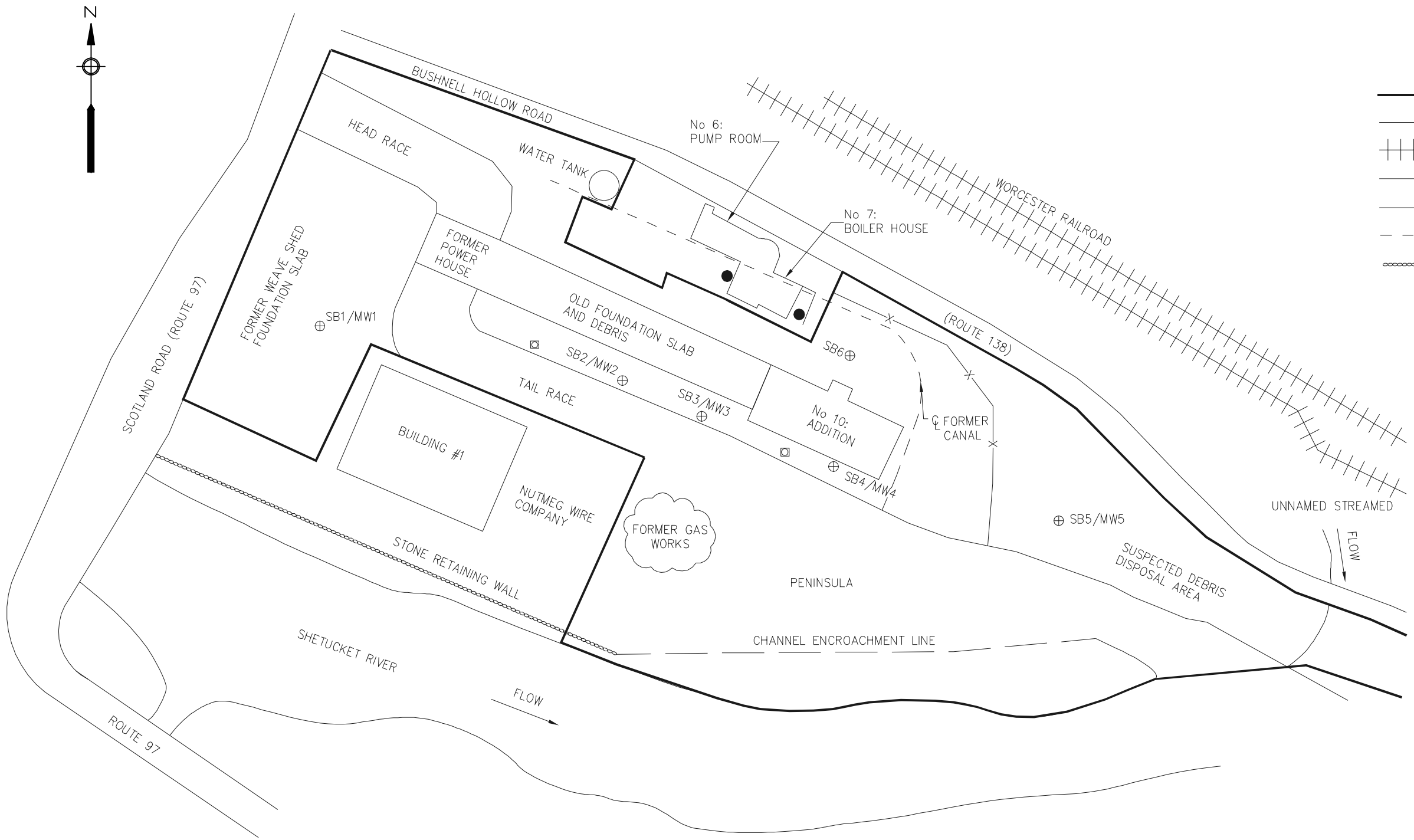
N
W E
S

0 0.3 0.6 1.2
Miles

AES METCALF & EDDY | AECOM

X:\AES Regional TBAs\Sprague\Locus_Sprague.mxd

LAST UPDATE: Monday, September 29, 2008 9:10:16 AM
PLOT DATE: Monday, September 29, 2008 9:12:11 AM



EXISTING LEGEND

- SITE BOUNDARY
- CHANNEL ENCROACHMENT LINE
- RAILROAD TRACKS
- FENCE LINE
- WATERWAY BOUNDARY
- FORMER CANAL
- STONE RETAINING WALL
- WALL
- SMOKESTACK
- FIRE HYDRANT
- SOIL BORING / MONITORING WELL LOCATION

NOTES:

1. ALL LOCATIONS ARE TO BE CONSIDERED APPROXIMATE.
2. PLAN NOT TO BE USED FOR DESIGN.
3. FIGURE ADAPTED FROM SITE PLAN, BALTIC HILLS SITE, GEI CONSULTANTS, FEBRUARY 2005.
4. DRAWING IS NOT TO SCALE.

1"=150" 0 150 300 450
SCALE FEET

AES

SPRAGUE, CONNECTICUT
FORMER BALTIC MILLS SITE
FIGURE 2 – SITE PLAN

SCALE: 1"=150' | DATE: 9/26/08

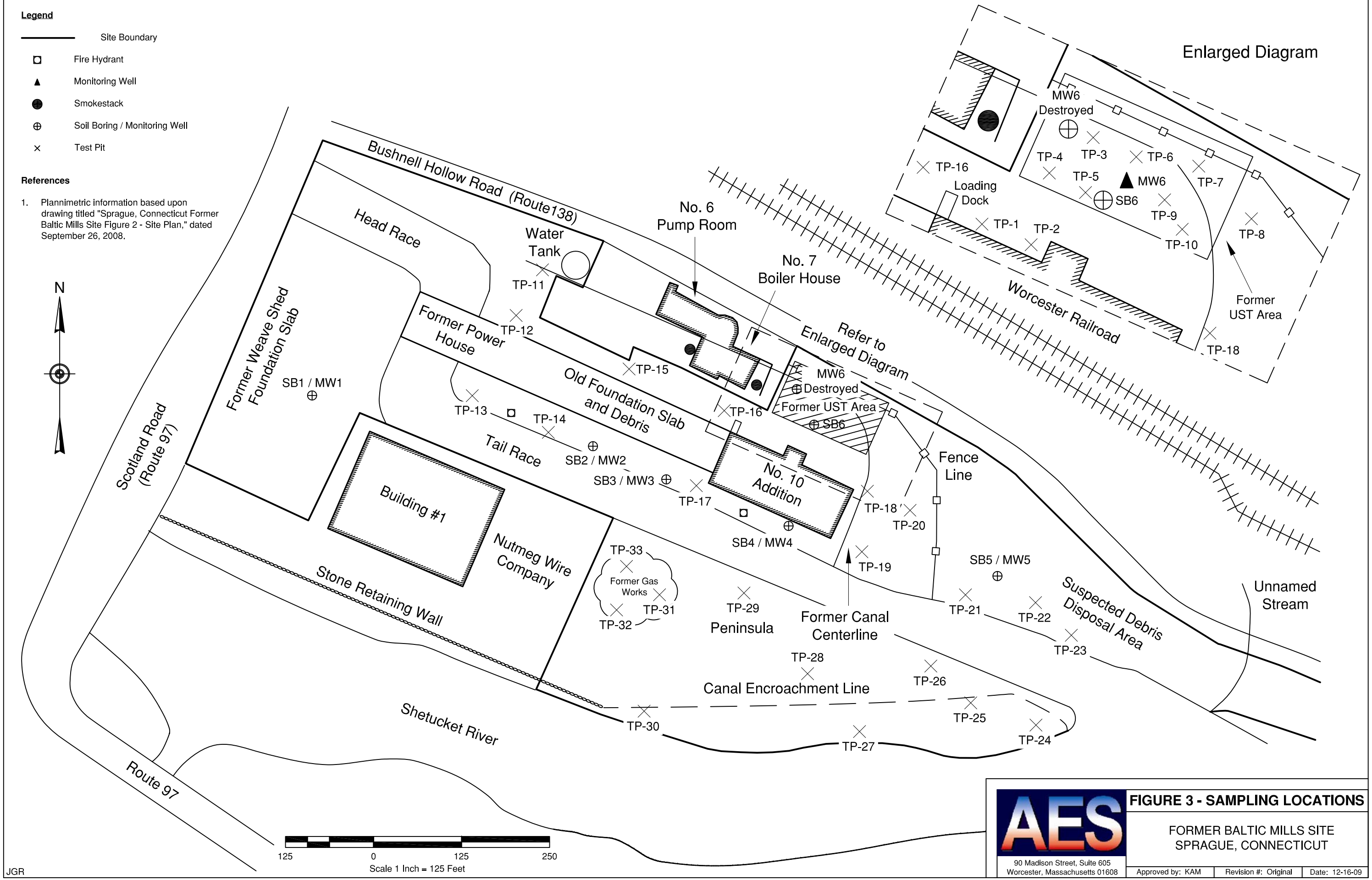
PATH/FILENAME: X:\AES REGIONAL TBAS\SPRAGUE\CAD\CZSPR002.DWG
ANSI B – 5-11-06

Legend

- Site Boundary
- Fire Hydrant
- Monitoring Well
- Smokestack
- Soil Boring / Monitoring Well
- Test Pit

References

1. Plannimetric information based upon drawing titled "Sprague, Connecticut Former Baltic Mills Site Figure 2 - Site Plan," dated September 26, 2008.



AES
90 Madison Street, Suite 605
Worcester, Massachusetts 01608

FIGURE 3 - SAMPLING LOCATIONS

FORMER BALTIC MILLS SITE
SPRAGUE, CONNECTICUT

Approved by: KAM	Revision #: Original	Date: 12-16-09

TABLES

Table 1
Summary of Soil Analytical Results
Former Baltic Mills Site
Sprague, CT

Sample Identification		TP-02	TP-04	TP-04	TP-06	TP-06	TP-07	TP-08	TP-08	Trip Blank	TP-11	TP-12	TP-13	TP-14	TP-14	TP-14
Sample Depth (ft.)		8	8	8	6	12	14	4	13		4	2	1	2	2	8
Sample Date		5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009
Group Number		1	1	1	1	1	1	1	1	NA	2	2	2	2	2	2
	RES DEC (mg/kg)			Duplicate											Duplicate	
Total Metals																
Arsenic	10	5.5	6.2	4.9	4.8	--	ND	5.1	--	--	5.6	6.2	5.1	6.9	6.2	4.8
Beryllium	2	0.21	0.2	0.2	0.2	--	0.11	0.22	--	--	0.13	0.19	0.12	0.1	0.13	0.17
Cadmium	34	ND	ND	ND	ND	--	ND	ND	--	--	ND	ND	ND	ND	ND	ND
Chromium	3900	19	13.7	18.3	12.3	--	22.2	15.2	--	--	8.8	29.1	10.9	7	7	12.6
Copper	2500	9	11.4	10.5	9.9	--	21.3	9.8	--	--	8.8	14.3	18.8	5.8	6.1	8.7
Lead	400	6.5	12.5	10.8	13.7	--	ND	ND	--	--	ND	97.4	**853**	27.6	27.2	37.2
Mercury	20	ND	ND	ND	0.036	--	ND	ND	--	--	ND	0.078	0.095	ND	ND	ND
Nickel	1400	14	11.1	12.4	10.2	--	18.1	10.8	--	--	7.1	15	8.1	5.3	5.2	8.6
Zinc	20000	12.4	16.6	16.9	16.2	--	28.1	12.3	--	--	9.1	59.2	24.8	12.1	12.3	17
Volatile Organic Compounds / Low Level																
1,2-Dibromoethane	0.007	ND	ND	ND	--	ND	ND	--	ND	ND	--	--	--	--	--	--
1,4-Dioxane	0.2	ND	ND	ND	--	ND	ND	--	ND	ND	--	--	--	--	--	--
Volatile Organic Compounds / Methanol																
1,2,4-Trimethylbenzene	500	ND	ND	ND	--	0.274		--	ND	ND	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	0.44	<1.57	ND	ND	--	<0.968	<0.973	--	ND	ND	--	--	--	--	--	--
1,2-Dibromoethane	0.007	<0.261	ND	ND	--	<0.161	<0.162	--	ND	<0.05	--	--	--	--	--	--
1,2-Dichlorobenzene	500	0.303	ND	ND	--	0.21	ND	--	ND	ND	--	--	--	--	--	--
1,4-Dichlorobenzene	26	1.06	ND	ND	--	0.591	ND	--	ND	ND	--	--	--	--	--	--
4-Isopropyltoluene	500	2.07	ND	ND	--	0.907	0.266	--	ND	ND	--	--	--	--	--	--
Acrylonitrile	1.1	<2.09	ND	ND	--	<1.29	<1.3	--	ND	ND	--	--	--	--	--	--
Chlorobenzene	500	1.33	ND	ND	--	0.839			ND	ND	--	--	--	--	--	--
Ethylbenzene	500	3.21	ND	ND	--	2.27	0.86	--	ND	ND	--	--	--	--	--	--
Isopropylbenzene	500	2.19	ND	ND	--	1.13	0.646	--	ND	ND	--	--	--	--	--	--
Naphthalene	1000	61.6 D	ND	ND	--	30.3	21.9	--	ND	ND	--	--	--	--	--	--
n-Butylbenzene	500	5.19	ND	ND	--	2.81	1.56	--	ND	ND	--	--	--	--	--	--
n-Propylbenzene	500	3.58	ND	ND	--	2	1.12	--	ND	ND	--	--	--	--	--	--
sec-Butylbenzene	500	2.54	ND	ND	--	1.34	0.996	--	ND	ND	--	--	--	--	--	--
Xylene O	500	0.313	ND	ND	--	0.345		--	ND	ND	--	--	--	--	--	--

Notes:
Bold denotes exceedance of RES DEC
Shaded cell - The method requested for this analysis does not meet criteria for all compounds. The compound is undetected, however, the Method Reporting Limit is greater than the State limit.
ND -Not Detected
-- Denotes Not Analyzed
< indicates less than laboratory detection limits.
C = Composite Sample
D = Sample was diluted in order to obtain a value within the calibration range.

RES DEC - Soil Standards compared to Connecticut Residential Direct Exposure Criteria
Total Metals via EPA Method 3050B/6000/7000
Total Cyanide via EPA Method 335.2/SW-846
Volatile Organic Compounds / Low Level via EPA Method 5035/8260B
Volatile Organic Compounds / Methanol via EPA Method 5035/8260B
Extractable Total Petroleum Hydrocarbons via EPA Method 8100M
8270C Polynuclear Aromatic Hydrocarbons via EPA Method 8270C

Table 1
Summary of Soil Analytical Results
Former Baltic Mills Site
Sprague, CT

Sample Identification		**TP-02**	**TP-04**	**TP-04**	**TP-06**	**TP-06**	**TP-07**	**TP-08**	**TP-08**	**Trip Blank**	**TP-11**	**TP-12**	**TP-13**	**TP-14**	**TP-14**	**TP-14**
Sample Depth (ft.)		**8**	**8**	**8**	**6**	**12**	**14**	**4**	**13**		**4**	**2**	**1**	**2**	**2**	**8**
Sample Date		**5/18/2009**	**5/18/2009**	**5/18/2009**	**5/18/2009**	**5/18/2009**	**5/19/2009**	**5/19/2009**	**5/19/2009**	**5/19/2009**	**5/19/2009**	**5/19/2009**	**5/19/2009**	**5/19/2009**	**5/19/2009**	**5/19/2009**
Group Number		**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**NA**	**2**	**2**	**2**	**2**	**2**	**2**
	RES DEC (mg/kg)			**Duplicate**											**Duplicate**	
Extractable Total Petroleum Hydrocarbons																
Total Petroleum Hydrocarbons	500	**40400 D**	**4570 D**	**17800 D**	**--**	**22000 D**	**10200 D**	--	ND	--	ND	54.7	ND	28.6	38.3	34.8
Polynuclear Aromatic Hydrocarbons																
2-Methylnaphthalene	474	ND	ND	ND	ND	--	39.7 D	ND	--	--	ND	ND	ND	ND	ND	ND
Acenaphthene	1000	ND	ND	ND	ND		ND	ND	--	--	ND	ND	ND	ND	ND	ND
Acenaphthylene	1000	ND	ND	ND	ND	--	ND	ND	--	--	ND	ND	ND	ND	ND	ND
Anthracene	1000	ND	ND	ND	ND	--	ND	ND	--	--	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	1	<33.1 D	<15.1 D	<15.2 D	ND	--	<7.79 D	ND	--	--	ND	0.558	ND	0.783	0.655	ND
Benzo(a)pyrene	1	<16.6 D	<7.58 D	<7.62 D	ND	--	<3.91 D	ND	--	--	ND	0.593	ND	0.62	0.522	ND
Benzo(b)fluoranthene	1	<33.1 D	<15.1 D	<15.2 D	ND	--	<7.79 D	ND	--	--	ND	0.53	ND	0.552	0.453	ND
Benzo(g,h,i)perylene	1000	ND	ND	ND	ND	--	ND	ND	--	--	ND	0.448	ND	0.489	0.402	ND
Benzo(k)fluoranthene	8.4	<33.1 D	<15.1 D	<15.2 D	ND	--	ND	ND	--	--	ND	0.446	ND	0.573	0.508	ND
Chrysene	84	ND	ND	ND	ND	--	ND	ND	--	--	ND	0.656	ND	0.758	0.641	ND
Dibenzo(a,h)Anthracene	0.33	<16.6 D	<7.58 D	<7.62 D	ND	--	<3.91 D	ND	--	--	ND	0.204	ND	ND	ND	ND
Fluoranthene	1000	ND	ND	ND	ND	--	ND	ND	--	--	ND	0.841	ND	1.63	1.37	ND
Fluorene	1000	ND	ND	ND	ND	--	ND	ND	--	--	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	1	<33.1 D	<15.1 D	<15.2 D	ND	--	<7.79 D	ND	--	--	ND	0.404	ND	0.481	0.386	ND
Naphthalene	1000	ND	ND	ND	ND	--	14.8 D	ND	--	--	ND	ND	ND	ND	ND	ND
Phenanthrene	1000	ND	ND	ND	ND	--	15.7 D	ND	--	--	ND	0.438	ND	ND	ND	ND
Pyrene	1000	ND	ND	ND	ND	--	11.4 D	ND	--	--	ND	0.855	ND	1.43	1.16	ND
Cyanide																
Total Cyanide	1400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
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Shaded cell - The method requested for this analysis does not meet criteria for all compounds. The compound is undetected, however, the Method Reporting Limit is greater than the State limit.

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Table 1
Summary of Soil Analytical Results
Former Baltic Mills Site
Sprague, CT

Sample Identification		TP-15	TP-16	TP-17	TP-18	TP-19	TP-22	TP-25	TP-27	TP-28	TP-29	TP-30	TP-31	TP-32	TP-33	TP-34
Sample Depth (ft.)		2	2	5	2.5	2	2	5	Composite	5.5	3-5	4-4.5	Composite	Composite	6-7	6-7
Sample Date		5/19/2009	5/19/2009	5/19/2009	5/20/2009	5/20/2009	5/20/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009
Group Number		2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
	RES DEC (mg/kg)															
Total Metals																
Arsenic	10	8.1	7.2	5.3	9	5.5	8.6	3.1	3.3	7.7	6.8	5.5	7.2	6	8	7.3
Beryllium	2	0.18	0.16	0.14	ND	0.12	0.13	0.12	0.19	0.16	0.09	0.31	0.19	0.2	0.09	0.08
Cadmium	34	ND	ND	ND	ND	ND	ND	0.8	1.17	ND	ND	ND	ND	ND	ND	ND
Chromium	3900	9.8	12.2	9.1	8.5	13.2	10	8.7	20	5.1	6.9	8.5	9.7	14	7.5	5.6
Copper	2500	8.4	9.8	11.4	12.4	16.1	9.3	5.5	12.7	7.9	11.7	7.8	8.6	14.5	9.6	9.8
Lead	400	19.2	24.1	290	**495**	112	7.1	8.8	22	98.3	121	28.4	8.9	76	25.2	25.2
Mercury	20	ND	ND	0.062	ND	ND	ND	ND	0.086	0.181	ND	0.082	ND	0.07	0.151	0.15
Nickel	1400	7.7	9.1	6.3	7.4	9.5	7.8	5.5	8.3	4.5	6.1	9	7.7	9.7	5.5	4.8
Zinc	20000	10.8	16.2	63.3	17.6	30.4	8.9	15.9	29.6	44.2	16.5	17.1	11.6	54.2	29.7	31.2
Volatile Organic Compounds / Low Level																
1,2-Dibromoethane	0.007	--	--	--	--	--	--	--	--	<0.0081	ND	<0.0105	--	--	<0.0102	<0.0095
1,4-Dioxane	0.2	--	--	--	--	--	--	--	--	ND	ND	<0.21	--	--	<0.204	ND
Volatile Organic Compounds / Methanol																
1,2,4-Trimethylbenzene	500	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
1,2-Dibromo-3-Chloropropane	0.44	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
1,2-Dibromoethane	0.007	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
1,2-Dichlorobenzene	500	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
1,4-Dichlorobenzene	26	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
4-Isopropyltoluene	500	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
Acrylonitrile	1.1	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
Chlorobenzene	500	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
Ethylbenzene	500	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
Isopropylbenzene	500	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
Naphthalene	1000	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
n-Butylbenzene	500	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
n-Propylbenzene	500	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
sec-Butylbenzene	500	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
Xylene O	500	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND

Notes:
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Sample Depth (ft.)		2	2	5	2.5	2	2	5	Composite	5.5	3-5	4-4.5	Composite	Composite	6-7	6-7
Sample Date		5/19/2009	5/19/2009	5/19/2009	5/20/2009	5/20/2009	5/20/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009
Group Number		2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
	RES DEC (mg/kg)															
Extractable Total Petroleum Hydrocarbons																
Total Petroleum Hydrocarbons	500	ND	ND	269	ND	219	ND	ND	166	50.8	ND	362	ND	42.6	**1540 D**	**5130 D**
Polynuclear Aromatic Hydrocarbons																
2-Methylnaphthalene	474	ND	ND	ND	ND	0.803	ND	ND	ND	ND	ND	10.2	ND	ND	ND	ND
Acenaphthene	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	1000	ND	ND	ND	ND	1.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.45 D
Anthracene	1000	ND	ND	ND	ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND	10.4 D	54 D
Benzo(a)anthracene	1	ND	ND	**1.05**	ND	**4.98**	ND	ND	**1.37**	ND	ND	**37.5 D**	ND	ND	**82.3 D**	**465 D**
Benzo(a)pyrene	1	ND	0.238	0.902	ND	**3.69**	ND	ND	**1.02**	ND	ND	**22.8 D**	ND	0.26	**89.1 D**	**429 D**
Benzo(b)fluoranthene	1	ND	ND	0.744	ND	**4.45**	ND	ND	0.737	ND	ND	**18.6 D**	ND	ND	**99.2 D**	**438 D**
Benzo(g,h,i)perylene	1000	ND	0.364	0.497	ND	1.48	ND	ND	0.481	ND	ND	ND	ND	ND	41.7 D	312 D
Benzo(k)fluoranthene	8.4	ND	ND	0.846	ND	2.75	ND	ND	1.07	ND	ND	**21.7 D**	ND	ND	**56 D**	**268 D**
Chrysene	84	ND	0.288	1.04	ND	4.34	ND	ND	1.25	0.189	0.215	30.5 D	ND	0.313	68.7 D	**362 D**
Dibenzo(a,h)Anthracene	0.33	ND	ND	0.245	ND	**0.57**	ND	ND	0.223	ND	ND	**4.75 D**	ND	ND	**15.1 D**	**59.5 D**
Fluoranthene	1000	ND	0.545	1.5	ND	11.4 D	ND	ND	2.36	ND	ND	68.7 D	ND	0.476	124 D	751 D
Fluorene	1000	ND	ND	ND	ND	1.57	ND	ND	ND	ND	ND	11.3 D	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	1	ND	ND	0.533	ND	**1.59**	ND	ND	0.532	ND	ND	**10.2 D**	ND	ND	**48.3 D**	**318 D**
Naphthalene	1000	ND	ND	ND	ND	0.921	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1000	ND	ND	0.739	ND	10.3 D	ND	ND	1.05	ND	ND	74.1 D	ND	ND	16.9 D	37.2 D
Pyrene	1000	ND	0.425	1.34	ND	8.86 D	ND	ND	2.01	ND	ND	52.6 D	ND	0.443	110 D	762 D
Cyanide																
Total Cyanide	1400	--	--	--	--	--	--	--	--	--	--	ND	--	ND	62.2 D	58.6 D

Notes:
Bold denotes exceedance of RES DEC
Shaded cell - The method requested for this analysis does not meet criteria for all compounds. The compound is undetected, however, the Method Reporting Limit is greater than the State limit.

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Total Cyanide via EPA Method 335.2/SW-846
Volatile Organic Compounds / Low Level via EPA Method 5035/8260B
Volatile Organic Compounds / Methanol via EPA Method 5035/8260B
Extractable Total Petroleum Hydrocarbons via EPA Method 8100M
8270C Polynuclear Aromatic Hydrocarbons via EPA Method 8270C

Table 2
Summary of Groundwater Analytical Results
Former Baltic Mills Site
Sprague, CT

Sample Identification	GA GWPC (ug/L)	MW-6
Sample Date:		10/07/2009
Extractable Petroleum Hydrocarbons		
2-Methylnaphthalene	49	ND
Acenaphthene	420	ND
Acenaphthylene	420	ND
Anthracene	2000	ND
Benzo(a)anthracene	0.06	<10
Benzo(a)pyrene	0.2	<10
Benzo(b)fluoranthene	0.08	<10
Benzo(g,h,i)perylene	210	ND
Benzo(k)fluoranthene	0.5	<10
Chrysene	4.8	<10
Dibenzo(a,h)Anthracene	0.2	<10
Fluoranthene	280	ND
Fluorene	280	ND
Indeno(1,2,3-cd)Pyrene	0.5	<10
Naphthalene	280	ND
Phenanthrene	200	ND
Pyrene	200	ND
C_{11}-C_{22} Aromitic Hydrocarbons	5,000*	684
C_{19}-C_{36} Aliphatic Hydrocarbons	50,000*	421
C_{9}-C_{18} Aliphatic Hydrocarbons	5,000*	233

Notes:
EPH via MADEP-EPH-04-1.1/8270C
Shaded cell - The method requested for this analysis does not meet criteria for all compounds. The compound is undetected, however, the Method Reporting Limit is greater than the State limit.
< indicates less than laboratory detection limits
ND - Not Detected
MW-6 was recorded as MW-1 in the Laboratory Analytical Report
GA GWPC - Groundwater standards compared to Connecticut Groundwater Protection Criteria
*Ground water standards obtained from the *Massachusetts Contingency Plan* , 310 CMR 40.0970, Revised December 2007. CTRSR does not include standards for hydrocarbon fractions.

APPENDIX A

MONITORING WELL AND TEST PIT LOGS

Advanced Environmental Solutions, Inc.

BORING LOG

Site:	Former Baltic Mills Site	Page 1 of 1				**Boring/Well #: MW-6**	
	Sprague, CT		**Feet BGS**			**Construction Material**	
		Riser	17	to	2.5	2" Solid PVC	
Date:	9/2/2008	Screen	16	to	31	2" Diameter, 0.010" slotted PVC	
Client:		Backfill	0	to	12	Native Soil	
Driller:	CDS (Pat and Joe)	Seal	12	to	14	Bentonite Clay	
Inspector:	MvdB	Sandpack	14	to	31	#1 Sand	

Depth (feet BGS)	Sample	Blow Counts per 6"	Recovery (feet)	Detail 2" Well	Soil Description	TVOC depth (ft)
0-5						
5-10						
10-15						
15-20						
20-25						
25-30						
30-35						

Miscellaneous Data		Portion	Percent			Sampling Protocol
Depth to Water (ft):	23	And	35	to	50	Method:
Drilling Method:		Some	20	to	35	Interval:
Drill Rig Model:	Diedrich D-120	Little	10	to	20	Sampler Size:

Total Well Depth: 31 Feet

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	_1_ of _1_
Site Location:	Sprague, Connecticut
Test Pit No:	TP-01

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/18/2009	5/18/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	15 feet	unknown	unknown	cloudy, cold

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1, 2, 3	0.0' - 4.0' Light brown fine to medium SAND with trace silt. Dry. Sample screened with PID at 2'.		0.0
4, 5	4.0' - 6.0' Light brown fine to medium SAND. Encountered piping. Sample screened with PID at 4'.		0.0
6, 7	6.0' - 8.0' Orange brown fine to medium SAND, trace coarse SAND. Sample screened with PID at 6.0'.		0.0
8, 9	8.0' - 10.0' Light brown to dark gray fine to medium SAND. Sample screened with PID at 8'.		0.0
10, 11, 12	10.0' - 12.0' Light brown to dark gray fine to medium SAND with little apparent asphalt and large cobbles. Moist. Sample screened with PID at 10.0'.		0.0
13	13.0' Dark brown fine to medium SAND. Sample screened with PID at 13'.		0.0
14, 15	14.0' Light brown to dark gray fine to medium SAND with trace silt and trace large cobbles. Sample screened with PID at 14'.		0.0
16, 17, 18	15' Bottom of excavation.		

Notes and Comments:

Samples Collected:

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	_1_ of _1_
Site Location:	Sprague, Connecticut
Test Pit No:	TP-02

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/18/2009	5/18/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	11 feet	unknown	unknown	cloudy, cold

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
	0.0' - 1.0' Miscelaneous debris and brick material.		
1	1.0' - 4.0' Light gray to light brown fine to medium SAND with little brick and large boulders. Sample screened with PID at 4'.		
2			
3			
4	4.0' Light gray to light brown fine to medium SAND with some cobbles and trace black debris. Trace large boulders and building debris -rebar and 1" piping. Petroleum-like odor.		0.0
5			
6			
7	7.0' Light brown fine to medium SAND with some brick debris, rebar and cobbles.		
8	8.0' - 11.0' Light brown and dark gray fine to medium SAND with trace silt. Dark gray SAND has strong petroleum-like odor. Little broken concrete and rebar observed. Moist. PID 1A of light brown SAND at 8.0'. PID 2A of dark gray SAND at 8.0'. Soil sample at 8' collected for laboratory analysis.		1A: 0.7/2A: 71.5
9			
10			
11	Refusal at 11'. Bottom of excavation.		
12			
13			
14			
15			
16			
17			
18			

Notes and Comments:

Samples Collected:

Soil sample analyzed for VOCs, ETPH, PAHs, and PP metals.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.: USEPA/Former Baltic Mills Site/GS-10F-0111N			**Page _1_ of _1_**
Site Location: Sprague, Connecticut			**Test Pit No:** TP-03
Excavation Contractor: TMC Services, Inc.	**Excavator Make/Model:** Caterpillar Excavator Model 305	**Date Started** 5/18/2009	**Date Finished** 5/18/2009
Logged By: KAM	**Field Screening Devices (Type, Make, Model)** MiniRAE Lite 2000		

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	13.3 feet	unknown	unknown	cloudy, cold

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
	0.0' - 1.0' Dark brown fine to medium SAND with trace organics (roots).		
1			
	1.0' - 2.0' Yellow orange fine to medium SAND withg trace gravel. Dry.		
2			
3	3.0' - 12.0' Dark brown fine to medium SAND with trace gravel, cobbles and boulders. Dry. Trace dark brown clums observed. Sample screened with PID at 4'. Sample screened with PID at 12'.		
4			0.0
5			
6			
7			
8			
9			
10			
11			
12			0.0
13	13.3' Bottom of excavation.		
14			
15			
16			
17			
18			

Notes and Comments:

Samples Collected:

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.: USEPA/Former Baltic Mills Site/GS-10F-0111N			**Page _1_ of _1_**
Site Location: Sprague, Connecticut			**Test Pit No:** TP-04
Excavation Contractor: TMC Services, Inc.	**Excavator Make/Model:** Caterpillar Excavator Model 305	**Date Started** 5/18/2009	**Date Finished** 5/18/2009
Logged By: KAM	**Field Screening Devices (Type, Make, Model)** MiniRAE Lite 2000		

Location (survey coord):	Ground El.:	Total Depth:	Bedrock Depth:	Water Table Depth:	Weather Cond:
unknown	unknown	17 feet	unknown	unknown	cloudy, cold

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1, 2, 3, 4	0.0' - 4.0' Large debris, rebar and concrete.		
5, 6, 7	4.0' - 7.0' Dark brown fine to medium SAND with little black apparent asphalt-type material.		
8, 9, 10, 11, 12	7.0' - 12.0' Dark brown fine to medium SAND, with little black apparent asphalt-type material. Little gravel and cobbles with trace concrete debris, 1" piping and rebar. Sample screened with PID at 8'. Soil sample at 8' collected for laboratory analysis.		3.4
13, 14, 15, 16	12.0' -15.0'. Dark brown and light brown fine to meidum SAND with trace large gravel, brick and boulders. Trace large concrete debris, rebar and 2" piping. Wet. Water at approximatley 12'. Slight whitish sheen. Sample screened with PID at 15'.		0.0
17	16.0' Dark brown and light brown fine to medium SAND. Wet. Sample screened with PID at 17'.		
18	17' Bottom of excavation.		0.0

Notes and Comments:

Samples Collected:

Soil sample analyzed for VOCs, ETPH, PAHs, and PP metals.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.: USEPA/Former Baltic Mills Site/GS-10F-0111N			**Page _1_ of _1_**
Site Location: Sprague, Connecticut			**Test Pit No:** TP-05
Excavation Contractor: TMC Services, Inc.	**Excavator Make/Model:** Caterpillar Excavator Model 305	**Date Started** 5/18/2009	**Date Finished** 5/18/2009
Logged By: KAM	**Field Screening Devices (Type, Make, Model)** MiniRAE Lite 2000		

Location (survey coord):	Ground El.:	Total Depth:	Bedrock Depth:	Water Table Depth:	Weather Cond:
unknown	unknown	16 feet	unknown	unknown	cloudy, cold

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	2.0' - 16.0' Light brown fine to medium SAND with trace cobbles, brick and coated wiring. Sample screened with PID at 4'. 18" steel pipe encountered. Possible storm drain. Continued to excavate avoiding pipe.		0.0
16, 17, 18	16.0' Light brown fine to medium SAND with trace brick debris. Wet. Sample screened with PID at 16'. 16' Bottom of excavation.		0.0

Notes and Comments:

Samples Collected:

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.: USEPA/Former Baltic Mills Site/GS-10F-0111N		**Page _1_ of _1_**
Site Location: Sprague, Connecticut		**Test Pit No:** TP-06

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/18/2009	5/18/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	17 feet	unknown	unknown	cloudy, cold

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1, 2, 3, 4, 5	2.0' - 6.0' Light brown fine to medium SAND with little brick, metal, piping, and organic roots.		
6, 7, 8, 9, 10, 11	6.0' - 12.0' Light brown fine to medium SAND with little clusters of fuel-oil-type material. Slight petroleum-like odor. PID 6A of black tar-like PID 6B of light brown SAND at 6'. Soil sample collected at 6' for laboratory analysis.		6A: 1.0/6B:1.0
12, 13, 14	12.0' - 15.0' Light brown fine to medium SAND with some greenish gray clay. Sample screened with PID at 12'. Soil sample collected at 12.0' for laboratory analysis.		81.6
15, 16	15.0' - 17.0' Light brown fine to medium SAND with some greenish gray clay. Petroleum-like odor. Sample screened at 15'.		8.1
17, 18	17.0' Oil-like liquid seeping into excavation. Strong petroleum-like odor. 17' Bottom of excavation.		

Notes and Comments:

Samples Collected:

6.0' soil sample analyzed for PAHs, and PP metals.
12.0' soil sample analyzed for VOCs, and ETPH.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.: USEPA/Former Baltic Mills Site/GS-10F-0111N		**Page _1_ of _1_**
Site Location: Sprague, Connecticut		**Test Pit No:** TP-07

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/19/2009	5/19/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	14 feet	unknown	unknown	sunny, warm

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1, 2, 3, 4, 5	2.0' - 6.0' Light brown fine to medium SAND with trace large cobbles, organic matter and clumps of dark asphalt-type material.		
6, 7, 8, 9	6.0' - 9.0' Clumps of dark asphalt-type material.		
10, 11, 12, 13	10.0' - 14.0' Olive gray clay. Strong petroleum-like odor. Sample screened with PID at 14'.		
14, 15, 16, 17, 18	14' Bottom of excavation. Soil sample collected at 14' for laboratory analysis.		72.5

Notes and Comments:

TP-07 dug upgradient of TP-06 for field observations for source of fuel oil seepage into TP-06.

Samples Collected:

14.0' soil sample analyzed forVOCs, ETPH, PAHs, and PP metals.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.: USEPA/Former Baltic Mills Site/GS-10F-0111N		**Page _1_ of _1_**
Site Location: Sprague, Connecticut		**Test Pit No:** TP-08

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/19/2009	5/19/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	13 feet	unknown	unknown	sunny, warm

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1			
2	2.0' - 13.0' Light brown fine to medium SAND with trace coarse gravel, brick and debris. Sample screened with PID at 4'. Sample screened with PID at 12'. Soil sample collected at 4.0' for laboratory analysis. Soil sample collected at 12' for laboratory analysis.		
3			
4			0.0
5			
6			
7			
8			
9			
10			
11			
12			0.2
13	13' Bottom of excavation.		
14			
15			
16			
17			
18			

Notes and Comments:

Samples Collected:

4.0' soil sample analyzed for PAHs, and PP metals.
12.0' soil sample analyzed for VOCs, and ETPH.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	1 of 1
Site Location:	Sprague, Connecticut
Test Pit No:	TP-09

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/19/2009	5/19/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	16 feet	unknown	unknown	sunny, warm

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1			
2	2.0' - 6.0' Dark brown fine to medium SAND with trace large boulders. Sample screened with PID at 4'.		
3			
4			0.0
5			
6	6.0' - 16.0' Light brown fine to medium SAND with trace large cobbles. Sample screened with PID at 12'.		
7			
8			
9			
10			
11			
12			0.0
13			
14			
15			
16	16' Bottom of excavation.		
17			
18			

Notes and Comments:

Samples Collected:

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	1 of 1
Site Location:	Sprague, Connecticut
Test Pit No:	TP-10

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/19/2009	5/19/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	16 feet	unknown	unknown	sunny, warm

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1	1.0' - 2.0' Dark brown fine to medium SAND with trace organic material and large cobbles.		
2	2.0' - 16.0' Light brown fine to medium SAND. Sample screened with a PID at 4'.		
3			
4			0.0
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16	16' Bottom of excavation. Sample screened with a PID at 16'.		0.0
17			
18			

Notes and Comments:

Samples Collected:

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	1 of 1
Site Location:	Sprague, Connecticut
Test Pit No:	TP-11

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/19/2009	5/19/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	10 feet	unknown	unknown	sunny, warm

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1	0.0' - 1.0' Dark brown fine to medium SAND with trace organic material.		
2, 3, 4, 5, 6, 7, 8, 9	2.0' - 10.0' Light brown fine to medium SAND with trace layer of dark gray medium sand. Some round coarse gravel at 5'. Samples screened at PID 4'. Soil sample collected at 4' for laboratory analysis.		0.3
10, 11, 12, 13, 14, 15, 16, 17, 18	10' Bottom of excavation.		

Notes and Comments:

Samples Collected:

Soil sample analyzed for ETPH, PAHs, and PP metals.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	1 of 1
Site Location:	Sprague, Connecticut
Test Pit No:	TP-12

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/19/2009	5/19/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	5 feet	unknown	unknown	sunny, warm

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1	0.0' - 2.0' Dark brown fine to medium SAND, some brick debris, large gravel and cobbles.		
2	2.0' - 5.0' Light brown fine to medium SAND, with some cobbles and large gravel. Encountered 12" steel y-pipe at 5'. Sample screened for PID at 2'. Soil sample collected at 2' for laboratory analysis.		0.4
3			
4			
5	5' Bottom of excavation.		
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			

Notes and Comments:

Samples Collected:

Soil sample analyzed for ETPH, PAHs, and PP metals.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.: USEPA/Former Baltic Mills Site/GS-10F-0111N		**Page _1_ of _1_**
Site Location: Sprague, Connecticut		**Test Pit No:** TP-13

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/19/2009	5/19/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	8 feet	unknown	unknown	sunny, warm

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1 2 3 4 5 6 7	1.0' - 8.0' Brown fine to medium SAND, some ash and large gravel and cobbles. Sample screened with PID at 1'. Soil sample collected at 1' for laboratory analysis.		0.0
8 9 10 11 12 13 14 15 16 17 18	8.0' Brown fine to medium SAND, some large cobbles. Ash observed at 8'. 8' Bottom of excavation.		0.1

Notes and Comments:

Samples Collected:

Soil sample analyzed for ETPH, PAHs, and PP metals.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	1 of 1
Site Location:	Sprague, Connecticut
Test Pit No:	TP-14

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/19/2009	5/19/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	8 feet	unknown	unknown	sunny, warm

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1	1.0' - 2.0 Dark brown fine to medium SAND with some organic material and brick debris.		
2, 3, 4	2.0' - 8.0' Light brown fine to medium SAND with some large gravel and cobbles. Light gray ash layer at 2'. Sample screened with PID at 2'. Soil sample collected at 2' for laboratory analysis.		0.0
5	5.0' Black ash-type material. Sample screened with PID at 5'.		0.0
6, 7			
8, 9	8.0' White/light gray ash. 8' Bottom of excavation. Sample screened with PID at 8'. Soil sample collected at 8.0' for laboratory analysis.		0.0
10, 11, 12, 13, 14, 15, 16, 17, 18			

Notes and Comments:

Samples Collected:

2.0' soil sample analyzed for ETPH, PAHs, and PP metals.
8.0' soil sample analyzed for ETPH, PAHs, and PP metals.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.: USEPA/Former Baltic Mills Site/GS-10F-0111N		**Page _1_ of _1_**
Site Location: Sprague, Connecticut		**Test Pit No:** TP-15

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/19/2009	5/19/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	10 feet	unknown	unknown	sunny, warm

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
	0.0' - 1.5' Dark brown fine to medium SAND, some brick debris, and trace organic matter.		
1	1.5' - 2.0' Dark brown and olive gray fine to medium SAND.		
2	2.0' - 10.0' Light brown fine to medium SAND, trace debris and large gravel. 12" steel pipe encountered at 5'. Sample screened for PID at 2'. Soil sample collected at 2' for laboratory analysis.		0.1
3			
4			
5			
6			
7			
8			
9			
10	10' Bottom of excavation.		
11			
12			
13			
14			
15			
16			
17			
18			

Notes and Comments:

Samples Collected:

Soil sample analyzed for ETPH, PAHs, and PP metals.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	1 of 1
Site Location:	Sprague, Connecticut
Test Pit No:	TP-16

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/19/2009	5/19/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	10 feet	unknown	unknown	sunny, warm

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1	0.0' - 2.0' Dark brown fine to medium SAND with trace organic matter.		
2	2.0' - 10.0' Light brown fine to medium SAND with trace organic matter and coarse gravel. Clay pipe pieces at 8. Sample screened for PID at 2'. Soil sample collected at 2' for laboratory analysis.		0.2
3			
4			
5			
6			
7			
8			
9			
10	10' Bottom of excavation.		
11			
12			
13			
14			
15			
16			
17			
18			

Notes and Comments:

Samples Collected:

Soil sample analyzed for ETPH, PAHs, and PP metals.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	1 of 1
Site Location:	Sprague, Connecticut
Test Pit No:	TP-17

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/19/2009	5/19/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	9 feet	unknown	unknown	sunny, warm

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1	0.0' - 9.0' Light brown fine to medium SAND with some brick debris and little light gray ash.		
2			
3			
4			
5	5.0' Granite blocks and fine layer of white ash. Sample screened with PID at 5'.		0.0
6	Soil sample collected at 5' for laboratory analysis.		
7			
8			
9	Sample screened with PID at 9'. 9' Bottom of excavation.		0.0
10			
11			
12			
13			
14			
15			
16			
17			
18			

Notes and Comments:

Samples Collected:

Soil sample analyzed for ETPH, PAHs, and PP metals.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	1 of 1
Site Location:	Sprague, Connecticut
Test Pit No:	TP-18

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/20/2009	5/20/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	13 feet	unknown	unknown	sunny, warm

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1, 2	0.0' - 8.0' Dark brown fine to medium SAND with little brick debris, organic material, large gravel and cobbles.		
3	2.5' Layer of ash-like material observed. Sample screened with PID at 2.5'. Soil sample collected at 2.5' for laboratory analysis.		0.0
4, 5, 6, 7, 8			
8, 9, 10, 11, 12	8.0' - 13.0' Light brown fine to medium SAND with trace brick debris. Sample screened with PID at 8'.		0.0
13, 14, 15, 16, 17, 18	Sample screened with PID at 13'. 13' Bottom of excavation.		0.0

Notes and Comments:

Samples Collected:

Soil sample analyzed for ETPH, PAHs, and PP metals.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.: USEPA/Former Baltic Mills Site/GS-10F-0111N		**Page _1_ of _1_**
Site Location: Sprague, Connecticut		**Test Pit No:** TP-19

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/20/2009	5/20/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	14 feet	unknown	unknown	sunny, warm

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1	0.0' - 8.0' Dark brown fine to medium SAND with little brick debris, organic material, large gravel and cobbles.		
2	2.0' Layer of ash-like material observed. Sample screened with PID at 2'. Soil sample collected		0.0
3	at 2' for laboratory analysis.		
4			
5			
6			
7			
8	8.0' - 14.0' Light brown fine to medium SAND with trace cobbles and gravel. Sample screened with PID at 8'.		0.0
9			
10			
11			
12			
13			
14	14.0' Light brown to yellowish/orange medium to coarse SAND with some fine gravel. Wet. Sample screened with PID at 14'. 14' Bottom of excavation.		0.0
15			
16			
17			
18			

Notes and Comments:

Samples Collected:

Soil sample analyzed for ETPH, PAHs, and PP metals.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	1 of 1
Site Location:	Sprague, Connecticut
Test Pit No:	TP-20

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/20/2009	5/20/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	14 feet	unknown	unknown	sunny, warm

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1	0.0' - 1.0' Dark brown fine to medium SAND with little organic material		
2, 3, 4, 5, 6, 7, 8, 9, 10, 11	2.0' - 12.0' Light brown fine to medium SAND with little round cobbles. Sample screened with PID at 2'. Sample screened with PID at 8'.		0.0 0.2
12, 13	12.0 - 14.0' Yellowish orange coarse SAND. Moist. Sample screened with PID at 14'.		
14, 15, 16, 17, 18	14' Bottom of excavation		0.0

Notes and Comments:

Samples Collected:

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	1 of 1
Site Location:	Sprague, Connecticut
Test Pit No:	TP-21

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/20/2009	5/20/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	8 feet	unknown	unknown	sunny, warm

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1, 2, 3	0.0' - 4.0' Dark brown fine to medium SAND with trace organic material, trace large gravel and cobbles.		
4, 5, 6, 7	4.0' - 8.0' Light brown fine to medium SAND with trace trace large gravel and brick debris. At 4' large boulders and brick debris. Sample screened with PID at 4'.		0.0
8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18	8.0' Gray ash-like material. Sample screened with PID at 8'. Moist. 8' Bottom of excavation.		0.0

Notes and Comments:

Samples Collected:

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	1 of 1
Site Location:	Sprague, Connecticut
Test Pit No:	TP-22

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/20/2009	5/20/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	8 feet	unknown	unknown	sunny, warm

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1	0.0' - 1.0' Dark brown fine to medium SAND with some organic material.		
2, 3, 4, 5	2.0' - 6.0' Light brown fine to medium SAND with some coarse gravel. Sample screened with PID at 2'. Soil sample collected at 2' for laboratory analysis.		0.0
6, 7	6.0' - 8.0' Yellowish orange and light brown medium to coarse SAND. Wet.		
8	Sample screened with PID at 8'. 8' Bottom of excavation.		0.0
9, 10, 11, 12, 13, 14, 15, 16, 17, 18			

Notes and Comments:

Samples Collected:

Soil sample analyzed for ETPH, PAHs, and PP metals.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	1 of 1
Site Location:	Sprague, Connecticut
Test Pit No:	TP-23

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/20/2009	5/20/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	8 feet	unknown	unknown	sunny, warm

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1	0.0' - 1.0' Dark brown fine to medium SAND with some organic material and brick debris.		
2, 3, 4, 5	2.0' - 6.0' Light brown fine to medium SAND with some coarse gravel. Sample screened with PID at 2'. Soil sample collected at 2' for laboratory analysis.		0.0
6, 7	6.0' - 8.0' Light brown medium to coarse SAND. Moist.		
8	Sample screened with PID at 8'. 8' Bottom of excavation.		0.0
9, 10, 11, 12, 13, 14, 15, 16, 17, 18			

Notes and Comments:

Samples Collected:

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	1 of 1
Site Location:	Sprague, Connecticut
Test Pit No:	TP-24

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/18/2009	5/18/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	3.5 feet	unknown	unknown	cloudy, cold

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
	0.0' - 3.5' Brown gravel and coarse SAND with trace silt. Water at 3'.		
1			
2			
3	3.5' Bottom of excavation.		
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			

Notes and Comments:

Samples Collected:

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	1 of 1
Site Location:	Sprague, Connecticut
Test Pit No:	TP-25

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/18/2009	5/18/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	5.5 feet	unknown	unknown	cloudy, cold

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1	0.0' - 5.5' Light brown very fine to medium SAND with trace silt and trace gravel.		
2			
3			
4			
5			
6	Soil sample collected at 5.5' for laboratory analysis. 5.5' Bottom of excavation.		
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			

Notes and Comments:

Samples Collected:

Soil sample analyzed for ETPH, PAHs, and PP metals.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	1 of 1
Site Location:	Sprague, Connecticut
Test Pit No:	TP-26

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/18/2009	5/18/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	5 feet	unknown	unknown	cloudy, cold

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
	0.0' - 5.0' Brown very fine to medium SAND with trace silt and trace gravel.		
1			
2			
3			
4			
5	Sample screened with PID at 5'. 5' Bottom of excavation.		0.0
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			

Notes and Comments:

Samples Collected:

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.: USEPA/Former Baltic Mills Site/GS-10F-0111N		**Page _1_ of _1_**
Site Location: Sprague, Connecticut		**Test Pit No:** TP-27

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/18/2009	5/18/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	6.0 feet	unknown	unknown	cloudy, cold

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1	0.0' - 5.5' Brown very fine to medium SAND with trace silt and trace gravel.		
2			
3			
4			
5	5.5' - 6.0' Brown gravel and coarse SAND. Water at 5.5'.		
6	6' Bottom of excavation		
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			

Notes and Comments:

Samples Collected:

Composite soil sample analyzed for ETPH, PAHs, and PP metals.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Site Location:	Sprague, Connecticut
Page	1 of 1
Test Pit No:	TP-28

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/18/2009	5/18/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	7 feet	unknown	unknown	cloudy, cold

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1, 2	0.0' - 2.5' Brown very fine to fine SAND with little silt.		
3	2.5' - 4.0' Tan very fine to fine SAND with little silt.		
4, 5, 6	4.0' - 6.5' Light gray very fine to fine SAND with little silt. Brick debris and ash-like material. Black chacoal-like fine to coarse material observed at 5.5'. Sample screened with PID at 4'.		0.0
	Sample screened with PID at 5.5'. Soil sample collected at 5.5' for laboratory analysis.		0.0
7	6.5' - 7.0' Brown fine to coarse SAND with little cobbles. Damp.		
	Sample screened with PID at 7'. 7' Bottom of excavation.		0.0
8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18			

Notes and Comments:

Samples Collected:

Soil sample analyzed for VOCs, ETPH, PAHs, and PP metals.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	1 of 1
Site Location:	Sprague, Connecticut
Test Pit No:	TP-29

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/18/2009	5/18/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	5.5 feet	unknown	unknown	cloudy, cold

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1, 2	0.0' - 3.0' Brown very fine to fine SAND with little silt. At 3.0' some white/whitish gray fine material. Slightly sour smell.		
3	3.0' - 4.0' Brown very fine to fine SAND with little silt and some flat granite rocks and metal strips. Sample screened with PID at 3'		0.0
4	4.0' - 5.5' Light brown very fine to medium SAND and trace silt. Little cobbles. Sample screened with PID at 4'. Sample screened with PID at 5'. Soil sample collected at 4' for laboratory analysis.		0.0 0.0
5			
6	5.5' Bottom of excavation.		
7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18			

Notes and Comments:

Samples Collected:

Soil sample analyzed for VOCs, ETPH, PAHs, and PP metals.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	1 of 1
Site Location:	Sprague, Connecticut
Test Pit No:	TP-30

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/18/2009	5/18/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	5.5 feet	unknown	unknown	cloudy, cold

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1, 2, 3	0.0' - 4.0' Brown very fine to medium SAND with trace gravel and silt		
4	4.0' - 5.0' Black coarse material. Soil sample collected at 4' for laboratory analysis.		
5	5.0' - 5.5 Light brown fine to medium SAND with trace silt and gravel		
6	5.5' Bottom of excavation.		
7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18			

Notes and Comments:

Samples Collected:

Soil sample analyzed for VOCs, ETPH, PAHs, cyanide and PP metals.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	1 of 1
Site Location:	Sprague, Connecticut
Test Pit No:	TP-31

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/18/2009	5/18/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	7 feet	unknown	unknown	cloudy, cold

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1	0.0' - 4.0' Brown very fine to medium SAND with trace gravel and silt		
2			
3			
4			
5	5.0' - 7.0'Light brown fine to medium SAND with trace silt and gravel		
6			
7	7.0' Bottom of excavation		
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			

Notes and Comments:

Samples Collected:

Composite soil sample analyzed for ETPH, PAHs, and PP metals.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	1 of 1
Site Location:	Sprague, Connecticut
Test Pit No:	TP-32

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/18/2009	5/18/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	5.5 feet	unknown	unknown	cloudy, cold

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1, 2, 3, 4	0.0' - 4.0' Brown very fine to medium SAND with trace gravel and silt		
5	4.0' - 5.5' Light brown very fine to medium SAND with trace silt and gravel		
6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18	5.5' Bottom of excavation		

Notes and Comments:

Samples Collected:

Composite soil sample analyzed for ETPH, PAHs, and PP metals.

Advanced Environmental Solutions, Inc.

TEST PIT LOG

Client/Project/Contract No.:	USEPA/Former Baltic Mills Site/GS-10F-0111N
Page	1 of 1
Site Location:	Sprague, Connecticut
Test Pit No:	TP-33

Excavation Contractor:	**Excavator Make/Model:**	**Date Started**	**Date Finished**
TMC Services, Inc.	Caterpillar Excavator Model 305	5/18/2009	5/18/2009

Logged By:	**Field Screening Devices (Type, Make, Model)**
KAM	MiniRAE Lite 2000

Location (survey coord):	**Ground El.:**	**Total Depth:**	**Bedrock Depth:**	**Water Table Depth:**	**Weather Cond:**
unknown	unknown	10 feet	unknown	unknown	cloudy, cold

Depth bgs (ft)	Lithologic Description	USCS Class.	PID/FID (ppm)
1, 2, 3, 4, 5	0.0 - 5.5' Brown very fine to medium SAND with trace gravel and silt. Sample screened with PID at 4'.		0.0
6, 7	5.5' - 8.0' Black and white apparent ash and coal ash. Sample screened with PID at 6'. Soil sample collected at 6.0' for laboratory analysis.		0.0
8, 9	8.0 - 10.0' Light brown very fine to medium SAND with trace gravel, silt and cobbles. Sample screened with PID at 10'.		
10	10' Bottom of excavation.		0.0
11, 12, 13, 14, 15, 16, 17, 18			

Notes and Comments:

Samples Collected:

Soil sample analyzed for VOCS, ETPH, PAHs, cyanide and PP metals.

APPENDIX B

LABORATORY ANALYTICAL REPORTS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

PROJECT NARRATIVE

Mark Deuger
Advanced Environmental Solutions, Inc.
90 Madison Street, Suite 605
Worcester, MA 01608

RE: Baltic Mill
ESS Laboratory Work Order Number: 0905219

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this Project Narrative, the entire report has been paginated. The ESS Laboratory Certifications sheet is the final report page. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results. All ICP Metals were analyzed using the established linear dynamic range to determine acceptable analytical results.

ESS Laboratory certifies that the test results meet the requirements of NELAC, except where noted within this project narrative.

To achieve Reasonable Confidence Protocols (RCP) compliance for Connecticut data, ESS laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All RCP requirements have been achieved unless noted in the project narrative.

Question 5: Each method has been set-up in the laboratory to reach required RCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes (ie for GWPC samples, 1,2-Dibromoethane regulatory levels will not be met by VOA 8260. If this is a contaminant of concern Method 8011 will need to be used.). The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

Sample Receipt
The following sample(s) were received on May 18, 2009 for the analyses specified on the enclosed Chain of Custody Record.

Question F: All samples for SVOA and metals were analyzed for a subset of the required MCP list per the client's request.

Laboratory ID	Matrix	Client Sample ID
0905219-01	Soil	TP-29 3-5
0905219-02	Soil	TP-28 5.5
0905219-03	Soil	TP-25 5
0905219-04	Soil	TP-27 Comp
0905219-05	Soil	TP-30 4-4.5
0905219-06	Soil	TP-32 Comp
0905219-07	Soil	TP-33 6-7
0905219-08	Soil	TP-34 6-7
0905219-09	Soil	TP-31 Comp
0905219-10	Soil	TP-02 8
0905219-11	Soil	TP-004 8
0905219-12	Soil	TP-04 8
0905219-13	Soil	TP-06 12
0905219-14	Soil	TP-06 6

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill ESS Laboratory Work Order: 0905219

PROJECT NARRATIVE

3050B/6000/7000 Total Metals

BE91919-DUP2	**Relative percent difference for duplicate is outside of criteria.**
	Zinc
BE91919-MS2	**Matrix Spike recovery is below lower control limit.**
	Antimony

5035/8260B Volatile Organic Compounds / Low Level

BE92112-BSD1	**Blank Spike recovery is below lower control limit.**
	Diethyl Ether
BSE0141-CCV1	**Continuing Calibration recovery is below lower control limit.**
	Tetrahydrofuran

5035/8260B Volatile Organic Compounds / Methanol

0905219-10	**VOA sample could not be run as a low level analysis due to sample matrix.**
0905219-13	**VOA sample could not be run as a low level analysis due to sample matrix.**

8100M Extractable Total Petroleum Hydrocarbons

0905219-08	**Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution is present).**
0905219-10	**Surrogate recovery(ies) diluted below the MRL.**
0905219-11	**Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution is present).**
0905219-12	**Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution is present).**
0905219-13	**Surrogate recovery(ies) diluted below the MRL.**

8270C Polynuclear Aromatic Hydrocarbons

0905219-08	**Surrogate recovery(ies) above upper control limit.**
0905219-10	**Surrogate recovery(ies) diluted below the MRL.**
0905219-11	**Surrogate recovery(ies) diluted below the MRL.**
0905219-12	**Surrogate recovery(ies) diluted below the MRL.**

Classical Chemistry

BE91908-MS1	**Matrix Spike recovery is below lower control limit.**
	Total Cyanide

No other observations noted.

End of Project Narrative.

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905219

Laboratory Analysis
QA/QC Certification Form

Project Number: **N/A**
Sampling Date(s): **5/18/2009**
Laboratory Sample ID(s): **0905219-01 through 0905219-14**

List RCP Methods Used	(X) 8260B	( ) 8151A	(X) ETPH	(X) 6010B	(X) 7470A/1A
Other: _____	(X) 8270C	( ) 8081A	( ) VPH	( ) 6020	( ) 9014M
_____	( ) 8082	( ) 8021B	( ) EPH	(X) 7000 S	( ) 7196A

7841-Ti

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria failing outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	Yes No
1A	Were the method specific preservation and holding time requirements met?	Yes No
1B	***VPH and EPH Methods only:*** Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	Yes No N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes No
3	Were samples received at an appropriate temperature (<6º Cº)?	Yes No N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	Yes No Yes No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence." This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Laurel Stoddard

Position: Laboratory Director

Printed Name: Laurel Stoddard

Date: May 26, 2009

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-29 3-5
Date Sampled: 05/18/09 09:45
Percent Solids: 94

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-01
Sample Matrix: Soil

3050B/6000/7000 Total Metals

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.0	6010B	27	1	SVD	05/20/09	1.78	100
Arsenic	**6.8**	mg/kg dry	3.0	6010B	10	1	SVD	05/20/09	1.78	100
Beryllium	**0.09**	mg/kg dry	0.06	6010B	2	1	SVD	05/20/09	1.78	100
Cadmium	ND	mg/kg dry	0.60	6010B	34	1	SVD	05/20/09	1.78	100
Chromium	**6.9**	mg/kg dry	1.2	6010B	3900	1	SVD	05/20/09	1.78	100
Copper	**11.7**	mg/kg dry	1.2	6010B	2500	1	SVD	05/20/09	1.78	100
Lead	**121**	mg/kg dry	6.0	6010B	400	1	SVD	05/20/09	1.78	100
Mercury	ND	mg/kg dry	0.031	7471A	20	1	KAB	05/21/09	0.68	40
Nickel	**6.1**	mg/kg dry	3.0	6010B	1400	1	SVD	05/20/09	1.78	100
Selenium	ND	mg/kg dry	6.0	6010B	340	1	SVD	05/20/09	1.78	100
Silver	ND	mg/kg dry	0.60	6010B	340	1	SVD	05/20/09	1.78	100
Thallium	ND	mg/kg dry	1.48	7841	5.4	5	SVD	05/21/09	1.78	100
Zinc	**16.5**	mg/kg dry	3.0	6010B	20000	1	SVD	05/20/09	1.78	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-29 3-5
Date Sampled: 05/18/09 09:45
Percent Solids: 94
Initial Volume: 5.2
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-01
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg dry	0.0051	24	1	05/19/09
1,1,1-Trichloroethane	ND	mg/kg dry	0.0051	500	1	05/19/09
1,1,2,2-Tetrachloroethane	ND	mg/kg dry	0.0051	3.1	1	05/19/09
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg dry	0.0051		1	05/19/09
1,1,2-Trichloroethane	ND	mg/kg dry	0.0051	11	1	05/19/09
1,1-Dichloroethane	ND	mg/kg dry	0.0051	500	1	05/19/09
1,1-Dichloroethene	ND	mg/kg dry	0.0051	1	1	05/19/09
1,1-Dichloropropene	ND	mg/kg dry	0.0051		1	05/19/09
1,2,3-Trichlorobenzene	ND	mg/kg dry	0.0051		1	05/19/09
1,2,3-Trichloropropane	ND	mg/kg dry	0.0051		1	05/19/09
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.0051	680	1	05/19/09
1,2,4-Trimethylbenzene	ND	mg/kg dry	0.0051	500	1	05/19/09
1,2-Dibromo-3-Chloropropane	ND	mg/kg dry	0.0051	0.44	1	05/19/09
1,2-Dibromoethane	ND	mg/kg dry	0.0051	0.007	1	05/19/09
1,2-Dichlorobenzene	ND	mg/kg dry	0.0051	500	1	05/19/09
1,2-Dichloroethane	ND	mg/kg dry	0.0051	6.7	1	05/19/09
1,2-Dichloropropane	ND	mg/kg dry	0.0051	9	1	05/19/09
1,3,5-Trimethylbenzene	ND	mg/kg dry	0.0051	500	1	05/19/09
1,3-Dichlorobenzene	ND	mg/kg dry	0.0051	500	1	05/19/09
1,3-Dichloropropane	ND	mg/kg dry	0.0051		1	05/19/09
1,4-Dichlorobenzene	ND	mg/kg dry	0.0051	26	1	05/19/09
1,4-Dioxane	ND	mg/kg dry	0.102	0.2	1	05/19/09
2,2-Dichloropropane	ND	mg/kg dry	0.0051		1	05/19/09
2-Butanone	ND	mg/kg dry	0.0511	500	1	05/19/09
2-Chlorotoluene	ND	mg/kg dry	0.0051	500	1	05/19/09
2-Hexanone	ND	mg/kg dry	0.0511		1	05/19/09
4-Chlorotoluene	ND	mg/kg dry	0.0051	500	1	05/19/09
4-Isopropyltoluene	ND	mg/kg dry	0.0051	500	1	05/19/09
4-Methyl-2-Pentanone	ND	mg/kg dry	0.0511	500	1	05/19/09
Acetone	ND	mg/kg dry	0.0511	500	1	05/19/09
Acrylonitrile	ND	mg/kg dry	0.0051	1.1	1	05/19/09
Benzene	ND	mg/kg dry	0.0051	21	1	05/19/09
Bromobenzene	ND	mg/kg dry	0.0051		1	05/19/09
Bromochloromethane	ND	mg/kg dry	0.0051		1	05/19/09
Bromodichloromethane	ND	mg/kg dry	0.0051	9.9	1	05/19/09

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-29 3-5
Date Sampled: 05/18/09 09:45
Percent Solids: 94
Initial Volume: 5.2
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-01
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromoform	ND	mg/kg dry	0.0051	78	1	05/19/09
Bromomethane	ND	mg/kg dry	0.0102	95	1	05/19/09
Carbon Disulfide	ND	mg/kg dry	0.0051	500	1	05/19/09
Carbon Tetrachloride	ND	mg/kg dry	0.0051	4.7	1	05/19/09
Chlorobenzene	ND	mg/kg dry	0.0051	500	1	05/19/09
Chloroethane	ND	mg/kg dry	0.0102		1	05/19/09
Chloroform	ND	mg/kg dry	0.0051	100	1	05/19/09
Chloromethane	ND	mg/kg dry	0.0102	47	1	05/19/09
cis-1,2-Dichloroethene	ND	mg/kg dry	0.0051	500	1	05/19/09
cis-1,3-Dichloropropene	ND	mg/kg dry	0.0051	3.4	1	05/19/09
Dibromochloromethane	ND	mg/kg dry	0.0051	7.3	1	05/19/09
Dibromomethane	ND	mg/kg dry	0.0051		1	05/19/09
Dichlorodifluoromethane	ND	mg/kg dry	0.0102		1	05/19/09
Diethyl Ether	ND	mg/kg dry	0.0051		1	05/19/09
Di-isopropyl ether	ND	mg/kg dry	0.0051		1	05/19/09
Ethyl tertiary-butyl ether	ND	mg/kg dry	0.0051		1	05/19/09
Ethylbenzene	ND	mg/kg dry	0.0051	500	1	05/19/09
Hexachlorobutadiene	ND	mg/kg dry	0.0051	7.9	1	05/19/09
Isopropylbenzene	ND	mg/kg dry	0.0051	500	1	05/19/09
Methyl tert-Butyl Ether	ND	mg/kg dry	0.0051	500	1	05/19/09
Methylene Chloride	ND	mg/kg dry	0.0256	82	1	05/19/09
Naphthalene	ND	mg/kg dry	0.0051	1000	1	05/19/09
n-Butylbenzene	ND	mg/kg dry	0.0051	500	1	05/19/09
n-Propylbenzene	ND	mg/kg dry	0.0051	500	1	05/19/09
sec-Butylbenzene	ND	mg/kg dry	0.0051	500	1	05/19/09
Styrene	ND	mg/kg dry	0.0051	500	1	05/19/09
tert-Butylbenzene	ND	mg/kg dry	0.0051	500	1	05/19/09
Tertiary-amyl methyl ether	ND	mg/kg dry	0.0051		1	05/19/09
Tetrachloroethene	ND	mg/kg dry	0.0051	12	1	05/19/09
Tetrahydrofuran	ND	mg/kg dry	0.0051		1	05/19/09
Toluene	ND	mg/kg dry	0.0051	500	1	05/19/09
trans-1,2-Dichloroethene	ND	mg/kg dry	0.0051	500	1	05/19/09
trans-1,3-Dichloropropene	ND	mg/kg dry	0.0051	3.4	1	05/19/09
Trans-1,4-Dichloro-2-Butene	ND	mg/kg dry	0.0051		1	05/19/09
Trichloroethene	ND	mg/kg dry	0.0051	56	1	05/19/09
Trichlorofluoromethane	ND	mg/kg dry	0.0051	500	1	05/19/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-29 3-5
Date Sampled: 05/18/09 09:45
Percent Solids: 94
Initial Volume: 5.2
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-01
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Vinyl Chloride	ND	mg/kg dry	0.0102	0.32	1	05/19/09
Xylene O	ND	mg/kg dry	0.0051	500	1	05/19/09
Xylene P,M	ND	mg/kg dry	0.0102	500	1	05/19/09
Xylenes (Total)	ND	mg/kg dry	0.0153	500	0	05/19/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*123 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*95 %*		*70-130*
Surrogate: Dibromofluoromethane	*112 %*		*70-130*
Surrogate: Toluene-d8	*104 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-29 3-5
Date Sampled: 05/18/09 09:45
Percent Solids: 94
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-01
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/19/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	0.354	474	1	05/19/09
Acenaphthene	ND	mg/kg dry	0.354	1000	1	05/19/09
Acenaphthylene	ND	mg/kg dry	0.354	1000	1	05/19/09
Anthracene	ND	mg/kg dry	0.354	1000	1	05/19/09
Benzo(a)anthracene	ND	mg/kg dry	0.354	1	1	05/19/09
Benzo(a)pyrene	**0.187**	mg/kg dry	0.178	1	1	05/19/09
Benzo(b)fluoranthene	ND	mg/kg dry	0.354	1	1	05/19/09
Benzo(g,h,i)perylene	ND	mg/kg dry	0.354	1000	1	05/19/09
Benzo(k)fluoranthene	ND	mg/kg dry	0.354	8.4	1	05/19/09
Chrysene	**0.215**	mg/kg dry	0.178	84	1	05/19/09
Dibenzo(a,h)Anthracene	ND	mg/kg dry	0.178	0.33	1	05/19/09
Fluoranthene	ND	mg/kg dry	0.354	1000	1	05/19/09
Fluorene	ND	mg/kg dry	0.354	1000	1	05/19/09
Indeno(1,2,3-cd)Pyrene	ND	mg/kg dry	0.354	1	1	05/19/09
Naphthalene	ND	mg/kg dry	0.354	1000	1	05/19/09
Phenanthrene	ND	mg/kg dry	0.354	1000	1	05/19/09
Pyrene	ND	mg/kg dry	0.354	1000	1	05/19/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*73 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*89 %*		*30-130*
Surrogate: Nitrobenzene-d5	*74 %*		*30-130*
Surrogate: p-Terphenyl-d14	*99 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-29 3-5
Date Sampled: 05/18/09 09:45
Percent Solids: 94
Initial Volume: 19.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-01
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	ND	mg/kg dry	22.0	500	1	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*85 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-28 5.5
Date Sampled: 05/18/09 10:15
Percent Solids: 94

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-02
Sample Matrix: Soil

3050B/6000/7000 Total Metals

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	5.9	6010B	27	1	SVD	05/20/09	1.81	100
Arsenic	**7.7**	mg/kg dry	2.9	6010B	10	1	SVD	05/20/09	1.81	100
Beryllium	**0.16**	mg/kg dry	0.06	6010B	2	1	SVD	05/20/09	1.81	100
Cadmium	ND	mg/kg dry	0.59	6010B	34	1	SVD	05/20/09	1.81	100
Chromium	**5.1**	mg/kg dry	1.2	6010B	3900	1	SVD	05/20/09	1.81	100
Copper	**7.9**	mg/kg dry	1.2	6010B	2500	1	SVD	05/20/09	1.81	100
Lead	**98.3**	mg/kg dry	5.9	6010B	400	1	SVD	05/20/09	1.81	100
Mercury	**0.181**	mg/kg dry	0.035	7471A	20	1	KAB	05/21/09	0.61	40
Nickel	**4.5**	mg/kg dry	2.9	6010B	1400	1	SVD	05/20/09	1.81	100
Selenium	ND	mg/kg dry	5.9	6010B	340	1	SVD	05/20/09	1.81	100
Silver	ND	mg/kg dry	0.59	6010B	340	1	SVD	05/20/09	1.81	100
Thallium	ND	mg/kg dry	1.45	7841	5.4	5	SVD	05/21/09	1.81	100
Zinc	**44.2**	mg/kg dry	2.9	6010B	20000	1	SVD	05/20/09	1.81	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-28 5.5
Date Sampled: 05/18/09 10:15
Percent Solids: 94
Initial Volume: 3.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-02
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg dry	0.0081	24	1	05/20/09
1,1,1-Trichloroethane	ND	mg/kg dry	0.0081	500	1	05/20/09
1,1,2,2-Tetrachloroethane	ND	mg/kg dry	0.0081	3.1	1	05/20/09
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg dry	0.0081		1	05/20/09
1,1,2-Trichloroethane	ND	mg/kg dry	0.0081	11	1	05/20/09
1,1-Dichloroethane	ND	mg/kg dry	0.0081	500	1	05/20/09
1,1-Dichloroethene	ND	mg/kg dry	0.0081	1	1	05/20/09
1,1-Dichloropropene	ND	mg/kg dry	0.0081		1	05/20/09
1,2,3-Trichlorobenzene	ND	mg/kg dry	0.0081		1	05/20/09
1,2,3-Trichloropropane	ND	mg/kg dry	0.0081		1	05/20/09
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.0081	680	1	05/20/09
1,2,4-Trimethylbenzene	ND	mg/kg dry	0.0081	500	1	05/20/09
1,2-Dibromo-3-Chloropropane	ND	mg/kg dry	0.0081	0.44	1	05/20/09
1,2-Dibromoethane	ND	mg/kg dry	0.0081	0.007	1	05/20/09
1,2-Dichlorobenzene	ND	mg/kg dry	0.0081	500	1	05/20/09
1,2-Dichloroethane	ND	mg/kg dry	0.0081	6.7	1	05/20/09
1,2-Dichloropropane	ND	mg/kg dry	0.0081	9	1	05/20/09
1,3,5-Trimethylbenzene	ND	mg/kg dry	0.0081	500	1	05/20/09
1,3-Dichlorobenzene	ND	mg/kg dry	0.0081	500	1	05/20/09
1,3-Dichloropropane	ND	mg/kg dry	0.0081		1	05/20/09
1,4-Dichlorobenzene	ND	mg/kg dry	0.0081	26	1	05/20/09
1,4-Dioxane	ND	mg/kg dry	0.161	0.2	1	05/20/09
2,2-Dichloropropane	ND	mg/kg dry	0.0081		1	05/20/09
2-Butanone	ND	mg/kg dry	0.0806	500	1	05/20/09
2-Chlorotoluene	ND	mg/kg dry	0.0081	500	1	05/20/09
2-Hexanone	ND	mg/kg dry	0.0806		1	05/20/09
4-Chlorotoluene	ND	mg/kg dry	0.0081	500	1	05/20/09
4-Isopropyltoluene	ND	mg/kg dry	0.0081	500	1	05/20/09
4-Methyl-2-Pentanone	ND	mg/kg dry	0.0806	500	1	05/20/09
Acetone	ND	mg/kg dry	0.0806	500	1	05/20/09
Acrylonitrile	ND	mg/kg dry	0.0081	1.1	1	05/20/09
Benzene	ND	mg/kg dry	0.0081	21	1	05/20/09
Bromobenzene	ND	mg/kg dry	0.0081		1	05/20/09
Bromochloromethane	ND	mg/kg dry	0.0081		1	05/20/09
Bromodichloromethane	ND	mg/kg dry	0.0081	9.9	1	05/20/09

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-28 5.5
Date Sampled: 05/18/09 10:15
Percent Solids: 94
Initial Volume: 3.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-02
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromoform	ND	mg/kg dry	0.0081	78	1	05/20/09
Bromomethane	ND	mg/kg dry	0.0161	95	1	05/20/09
Carbon Disulfide	ND	mg/kg dry	0.0081	500	1	05/20/09
Carbon Tetrachloride	ND	mg/kg dry	0.0081	4.7	1	05/20/09
Chlorobenzene	ND	mg/kg dry	0.0081	500	1	05/20/09
Chloroethane	ND	mg/kg dry	0.0161		1	05/20/09
Chloroform	ND	mg/kg dry	0.0081	100	1	05/20/09
Chloromethane	ND	mg/kg dry	0.0161	47	1	05/20/09
cis-1,2-Dichloroethene	ND	mg/kg dry	0.0081	500	1	05/20/09
cis-1,3-Dichloropropene	ND	mg/kg dry	0.0081	3.4	1	05/20/09
Dibromochloromethane	ND	mg/kg dry	0.0081	7.3	1	05/20/09
Dibromomethane	ND	mg/kg dry	0.0081		1	05/20/09
Dichlorodifluoromethane	ND	mg/kg dry	0.0161		1	05/20/09
Diethyl Ether	ND	mg/kg dry	0.0081		1	05/20/09
Di-isopropyl ether	ND	mg/kg dry	0.0081		1	05/20/09
Ethyl tertiary-butyl ether	ND	mg/kg dry	0.0081		1	05/20/09
Ethylbenzene	ND	mg/kg dry	0.0081	500	1	05/20/09
Hexachlorobutadiene	ND	mg/kg dry	0.0081	7.9	1	05/20/09
Isopropylbenzene	ND	mg/kg dry	0.0081	500	1	05/20/09
Methyl tert-Butyl Ether	ND	mg/kg dry	0.0081	500	1	05/20/09
Methylene Chloride	ND	mg/kg dry	0.0403	82	1	05/20/09
Naphthalene	ND	mg/kg dry	0.0081	1000	1	05/20/09
n-Butylbenzene	ND	mg/kg dry	0.0081	500	1	05/20/09
n-Propylbenzene	ND	mg/kg dry	0.0081	500	1	05/20/09
sec-Butylbenzene	ND	mg/kg dry	0.0081	500	1	05/20/09
Styrene	ND	mg/kg dry	0.0081	500	1	05/20/09
tert-Butylbenzene	ND	mg/kg dry	0.0081	500	1	05/20/09
Tertiary-amyl methyl ether	ND	mg/kg dry	0.0081		1	05/20/09
Tetrachloroethene	ND	mg/kg dry	0.0081	12	1	05/20/09
Tetrahydrofuran	ND	mg/kg dry	0.0081		1	05/20/09
Toluene	ND	mg/kg dry	0.0081	500	1	05/20/09
trans-1,2-Dichloroethene	ND	mg/kg dry	0.0081	500	1	05/20/09
trans-1,3-Dichloropropene	ND	mg/kg dry	0.0081	3.4	1	05/20/09
Trans-1,4-Dichloro-2-Butene	ND	mg/kg dry	0.0081		1	05/20/09
Trichloroethene	ND	mg/kg dry	0.0081	56	1	05/20/09
Trichlorofluoromethane	ND	mg/kg dry	0.0081	500	1	05/20/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-28 5.5
Date Sampled: 05/18/09 10:15
Percent Solids: 94
Initial Volume: 3.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-02
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Vinyl Chloride	ND	mg/kg dry	0.0161	0.32	1	05/20/09
Xylene O	ND	mg/kg dry	0.0081	500	1	05/20/09
Xylene P,M	ND	mg/kg dry	0.0161	500	1	05/20/09
Xylenes (Total)	ND	mg/kg dry	0.0242	500	0	05/20/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*97 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*88 %*		*70-130*
Surrogate: Dibromofluoromethane	*97 %*		*70-130*
Surrogate: Toluene-d8	*100 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-28 5.5
Date Sampled: 05/18/09 10:15
Percent Solids: 94
Initial Volume: 14.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-02
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/19/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	0.361	474	1	05/19/09
Acenaphthene	ND	mg/kg dry	0.361	1000	1	05/19/09
Acenaphthylene	ND	mg/kg dry	0.361	1000	1	05/19/09
Anthracene	ND	mg/kg dry	0.361	1000	1	05/19/09
Benzo(a)anthracene	ND	mg/kg dry	0.361	1	1	05/19/09
Benzo(a)pyrene	ND	mg/kg dry	0.181	1	1	05/19/09
Benzo(b)fluoranthene	ND	mg/kg dry	0.361	1	1	05/19/09
Benzo(g,h,i)perylene	ND	mg/kg dry	0.361	1000	1	05/19/09
Benzo(k)fluoranthene	ND	mg/kg dry	0.361	8.4	1	05/19/09
Chrysene	**0.189**	mg/kg dry	0.181	84	1	05/19/09
Dibenzo(a,h)Anthracene	ND	mg/kg dry	0.181	0.33	1	05/19/09
Fluoranthene	ND	mg/kg dry	0.361	1000	1	05/19/09
Fluorene	ND	mg/kg dry	0.361	1000	1	05/19/09
Indeno(1,2,3-cd)Pyrene	ND	mg/kg dry	0.361	1	1	05/19/09
Naphthalene	ND	mg/kg dry	0.361	1000	1	05/19/09
Phenanthrene	ND	mg/kg dry	0.361	1000	1	05/19/09
Pyrene	ND	mg/kg dry	0.361	1000	1	05/19/09

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*67 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*66 %*		*30-130*
Surrogate: Nitrobenzene-d5	*67 %*		*30-130*
Surrogate: p-Terphenyl-d14	*96 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-28 5.5
Date Sampled: 05/18/09 10:15
Percent Solids: 94
Initial Volume: 19.8
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-02
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	**50.8**	mg/kg dry	21.5	500	1	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*99 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-25 5
Date Sampled: 05/18/09 10:55
Percent Solids: 89

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-03
Sample Matrix: Soil

3050B/6000/7000 Total Metals

					CT - RES DEC					
Analyte	**Results**	**Units**	**MRL**	**Method**	**Limit**	**DF**	**Analyst**	**Analyzed**	**I/V**	**F/V**
Antimony	ND	mg/kg dry	6.2	6010B	27	1	SVD	05/20/09	1.8	100
Arsenic	ND	mg/kg dry	3.1	6010B	10	1	SVD	05/20/09	1.8	100
Beryllium	**0.12**	mg/kg dry	0.07	6010B	2	1	SVD	05/20/09	1.8	100
Cadmium	**0.80**	mg/kg dry	0.63	6010B	34	1	SVD	05/20/09	1.8	100
Chromium	**8.7**	mg/kg dry	1.2	6010B	3900	1	SVD	05/20/09	1.8	100
Copper	**5.5**	mg/kg dry	1.2	6010B	2500	1	SVD	05/20/09	1.8	100
Lead	**8.8**	mg/kg dry	6.2	6010B	400	1	SVD	05/20/09	1.8	100
Mercury	ND	mg/kg dry	0.034	7471A	20	1	KAB	05/21/09	0.66	40
Nickel	**5.5**	mg/kg dry	3.1	6010B	1400	1	SVD	05/20/09	1.8	100
Selenium	ND	mg/kg dry	6.2	6010B	340	1	SVD	05/20/09	1.8	100
Silver	ND	mg/kg dry	0.63	6010B	340	1	SVD	05/20/09	1.8	100
Thallium	ND	mg/kg dry	1.54	7841	5.4	5	SVD	05/21/09	1.8	100
Zinc	**15.9**	mg/kg dry	3.1	6010B	20000	1	SVD	05/20/09	1.8	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-25 5
Date Sampled: 05/18/09 10:55
Percent Solids: 89
Initial Volume: 14.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-03
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/19/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	0.387	474	1	05/19/09
Acenaphthene	ND	mg/kg dry	0.387	1000	1	05/19/09
Acenaphthylene	ND	mg/kg dry	0.387	1000	1	05/19/09
Anthracene	ND	mg/kg dry	0.387	1000	1	05/19/09
Benzo(a)anthracene	ND	mg/kg dry	0.387	1	1	05/19/09
Benzo(a)pyrene	ND	mg/kg dry	0.194	1	1	05/19/09
Benzo(b)fluoranthene	ND	mg/kg dry	0.387	1	1	05/19/09
Benzo(g,h,i)perylene	ND	mg/kg dry	0.387	1000	1	05/19/09
Benzo(k)fluoranthene	ND	mg/kg dry	0.387	8.4	1	05/19/09
Chrysene	ND	mg/kg dry	0.194	84	1	05/19/09
Dibenzo(a,h)Anthracene	ND	mg/kg dry	0.194	0.33	1	05/19/09
Fluoranthene	ND	mg/kg dry	0.387	1000	1	05/19/09
Fluorene	ND	mg/kg dry	0.387	1000	1	05/19/09
Indeno(1,2,3-cd)Pyrene	ND	mg/kg dry	0.387	1	1	05/19/09
Naphthalene	ND	mg/kg dry	0.387	1000	1	05/19/09
Phenanthrene	ND	mg/kg dry	0.387	1000	1	05/19/09
Pyrene	ND	mg/kg dry	0.387	1000	1	05/19/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*60 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*73 %*		*30-130*
Surrogate: Nitrobenzene-d5	*62 %*		*30-130*
Surrogate: p-Terphenyl-d14	*85 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-25 5
Date Sampled: 05/18/09 10:55
Percent Solids: 89
Initial Volume: 20.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-03
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	ND	mg/kg dry	22.4	500	1	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*69 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-27 Comp
Date Sampled: 05/18/09 11:20
Percent Solids: 83

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-04
Sample Matrix: Soil

3050B/6000/7000 Total Metals

					CT - RES DEC					
Analyte	**Results**	**Units**	**MRL**	**Method**	**Limit**	**DF**	**Analyst**	**Analyzed**	**I/V**	**F/V**
Antimony	ND	mg/kg dry	6.7	6010B	27	1	SVD	05/20/09	1.81	100
Arsenic	ND	mg/kg dry	3.3	6010B	10	1	SVD	05/20/09	1.81	100
Beryllium	**0.19**	mg/kg dry	0.07	6010B	2	1	SVD	05/20/09	1.81	100
Cadmium	**1.17**	mg/kg dry	0.67	6010B	34	1	SVD	05/20/09	1.81	100
Chromium	**20.0**	mg/kg dry	1.3	6010B	3900	1	SVD	05/20/09	1.81	100
Copper	**12.7**	mg/kg dry	1.3	6010B	2500	1	SVD	05/20/09	1.81	100
Lead	**22.0**	mg/kg dry	6.7	6010B	400	1	SVD	05/20/09	1.81	100
Mercury	**0.086**	mg/kg dry	0.037	7471A	20	1	KAB	05/21/09	0.64	40
Nickel	**8.3**	mg/kg dry	3.3	6010B	1400	1	SVD	05/20/09	1.81	100
Selenium	ND	mg/kg dry	6.7	6010B	340	1	SVD	05/20/09	1.81	100
Silver	ND	mg/kg dry	0.67	6010B	340	1	SVD	05/20/09	1.81	100
Thallium	ND	mg/kg dry	1.65	7841	5.4	5	SVD	05/21/09	1.81	100
Zinc	**29.6**	mg/kg dry	3.3	6010B	20000	1	SVD	05/20/09	1.81	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-27 Comp
Date Sampled: 05/18/09 11:20
Percent Solids: 83
Initial Volume: 15.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-04
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/19/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	0.381	474	1	05/19/09
Acenaphthene	ND	mg/kg dry	0.381	1000	1	05/19/09
Acenaphthylene	ND	mg/kg dry	0.381	1000	1	05/19/09
Anthracene	ND	mg/kg dry	0.381	1000	1	05/19/09
Benzo(a)anthracene	**1.37**	mg/kg dry	0.381	1	1	05/19/09
Benzo(a)pyrene	**1.02**	mg/kg dry	0.191	1	1	05/19/09
Benzo(b)fluoranthene	**0.737**	mg/kg dry	0.381	1	1	05/19/09
Benzo(g,h,i)perylene	**0.481**	mg/kg dry	0.381	1000	1	05/19/09
Benzo(k)fluoranthene	**1.07**	mg/kg dry	0.381	8.4	1	05/19/09
Chrysene	**1.25**	mg/kg dry	0.191	84	1	05/19/09
Dibenzo(a,h)Anthracene	**0.223**	mg/kg dry	0.191	0.33	1	05/19/09
Fluoranthene	**2.36**	mg/kg dry	0.381	1000	1	05/19/09
Fluorene	ND	mg/kg dry	0.381	1000	1	05/19/09
Indeno(1,2,3-cd)Pyrene	**0.532**	mg/kg dry	0.381	1	1	05/19/09
Naphthalene	ND	mg/kg dry	0.381	1000	1	05/19/09
Phenanthrene	**1.05**	mg/kg dry	0.381	1000	1	05/19/09
Pyrene	**2.01**	mg/kg dry	0.381	1000	1	05/19/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*61 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*76 %*		*30-130*
Surrogate: Nitrobenzene-d5	*66 %*		*30-130*
Surrogate: p-Terphenyl-d14	*90 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-27 Comp
Date Sampled: 05/18/09 11:20
Percent Solids: 83
Initial Volume: 21
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-04
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	**166**	mg/kg dry	22.9	500	1	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*104 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-30 4-4.5
Date Sampled: 05/18/09 12:00
Percent Solids: 85

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-05
Sample Matrix: Soil

3050B/6000/7000 Total Metals

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.7	6010B	27	1	SVD	05/20/09	1.75	100
Arsenic	**5.5**	mg/kg dry	3.4	6010B	10	1	SVD	05/20/09	1.75	100
Beryllium	**0.31**	mg/kg dry	0.07	6010B	2	1	SVD	05/20/09	1.75	100
Cadmium	ND	mg/kg dry	0.68	6010B	34	1	SVD	05/20/09	1.75	100
Chromium	**8.5**	mg/kg dry	1.3	6010B	3900	1	SVD	05/20/09	1.75	100
Copper	**7.8**	mg/kg dry	1.3	6010B	2500	1	SVD	05/20/09	1.75	100
Lead	**28.4**	mg/kg dry	6.7	6010B	400	1	SVD	05/20/09	1.75	100
Mercury	**0.082**	mg/kg dry	0.039	7471A	20	1	KAB	05/21/09	0.6	40
Nickel	**9.0**	mg/kg dry	3.4	6010B	1400	1	SVD	05/20/09	1.75	100
Selenium	ND	mg/kg dry	6.7	6010B	340	1	SVD	05/20/09	1.75	100
Silver	ND	mg/kg dry	0.68	6010B	340	1	SVD	05/20/09	1.75	100
Thallium	ND	mg/kg dry	1.66	7841	5.4	5	SVD	05/21/09	1.75	100
Zinc	**17.1**	mg/kg dry	3.4	6010B	20000	1	SVD	05/20/09	1.75	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-30 4-4.5
Date Sampled: 05/18/09 12:00
Percent Solids: 85
Initial Volume: 2.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-05
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg dry	0.0105	24	1	05/20/09
1,1,1-Trichloroethane	ND	mg/kg dry	0.0105	500	1	05/20/09
1,1,2,2-Tetrachloroethane	ND	mg/kg dry	0.0105	3.1	1	05/20/09
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg dry	0.0105		1	05/20/09
1,1,2-Trichloroethane	ND	mg/kg dry	0.0105	11	1	05/20/09
1,1-Dichloroethane	ND	mg/kg dry	0.0105	500	1	05/20/09
1,1-Dichloroethene	ND	mg/kg dry	0.0105	1	1	05/20/09
1,1-Dichloropropene	ND	mg/kg dry	0.0105		1	05/20/09
1,2,3-Trichlorobenzene	ND	mg/kg dry	0.0105		1	05/20/09
1,2,3-Trichloropropane	ND	mg/kg dry	0.0105		1	05/20/09
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.0105	680	1	05/20/09
1,2,4-Trimethylbenzene	ND	mg/kg dry	0.0105	500	1	05/20/09
1,2-Dibromo-3-Chloropropane	ND	mg/kg dry	0.0105	0.44	1	05/20/09
1,2-Dibromoethane	ND	mg/kg dry	0.0105	0.007	1	05/20/09
1,2-Dichlorobenzene	ND	mg/kg dry	0.0105	500	1	05/20/09
1,2-Dichloroethane	ND	mg/kg dry	0.0105	6.7	1	05/20/09
1,2-Dichloropropane	ND	mg/kg dry	0.0105	9	1	05/20/09
1,3,5-Trimethylbenzene	ND	mg/kg dry	0.0105	500	1	05/20/09
1,3-Dichlorobenzene	ND	mg/kg dry	0.0105	500	1	05/20/09
1,3-Dichloropropane	ND	mg/kg dry	0.0105		1	05/20/09
1,4-Dichlorobenzene	ND	mg/kg dry	0.0105	26	1	05/20/09
1,4-Dioxane	ND	mg/kg dry	0.210	0.2	1	05/20/09
2,2-Dichloropropane	ND	mg/kg dry	0.0105		1	05/20/09
2-Butanone	ND	mg/kg dry	0.105	500	1	05/20/09
2-Chlorotoluene	ND	mg/kg dry	0.0105	500	1	05/20/09
2-Hexanone	ND	mg/kg dry	0.105		1	05/20/09
4-Chlorotoluene	ND	mg/kg dry	0.0105	500	1	05/20/09
4-Isopropyltoluene	ND	mg/kg dry	0.0105	500	1	05/20/09
4-Methyl-2-Pentanone	ND	mg/kg dry	0.105	500	1	05/20/09
Acetone	ND	mg/kg dry	0.105	500	1	05/20/09
Acrylonitrile	ND	mg/kg dry	0.0105	1.1	1	05/20/09
Benzene	ND	mg/kg dry	0.0105	21	1	05/20/09
Bromobenzene	ND	mg/kg dry	0.0105		1	05/20/09
Bromochloromethane	ND	mg/kg dry	0.0105		1	05/20/09
Bromodichloromethane	ND	mg/kg dry	0.0105	9.9	1	05/20/09

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-30 4-4.5
Date Sampled: 05/18/09 12:00
Percent Solids: 85
Initial Volume: 2.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-05
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromoform	ND	mg/kg dry	0.0105	78	1	05/20/09
Bromomethane	ND	mg/kg dry	0.0210	95	1	05/20/09
Carbon Disulfide	ND	mg/kg dry	0.0105	500	1	05/20/09
Carbon Tetrachloride	ND	mg/kg dry	0.0105	4.7	1	05/20/09
Chlorobenzene	ND	mg/kg dry	0.0105	500	1	05/20/09
Chloroethane	ND	mg/kg dry	0.0210		1	05/20/09
Chloroform	ND	mg/kg dry	0.0105	100	1	05/20/09
Chloromethane	ND	mg/kg dry	0.0210	47	1	05/20/09
cis-1,2-Dichloroethene	ND	mg/kg dry	0.0105	500	1	05/20/09
cis-1,3-Dichloropropene	ND	mg/kg dry	0.0105	3.4	1	05/20/09
Dibromochloromethane	ND	mg/kg dry	0.0105	7.3	1	05/20/09
Dibromomethane	ND	mg/kg dry	0.0105		1	05/20/09
Dichlorodifluoromethane	ND	mg/kg dry	0.0210		1	05/20/09
Diethyl Ether	ND	mg/kg dry	0.0105		1	05/20/09
Di-isopropyl ether	ND	mg/kg dry	0.0105		1	05/20/09
Ethyl tertiary-butyl ether	ND	mg/kg dry	0.0105		1	05/20/09
Ethylbenzene	ND	mg/kg dry	0.0105	500	1	05/20/09
Hexachlorobutadiene	ND	mg/kg dry	0.0105	7.9	1	05/20/09
Isopropylbenzene	ND	mg/kg dry	0.0105	500	1	05/20/09
Methyl tert-Butyl Ether	ND	mg/kg dry	0.0105	500	1	05/20/09
Methylene Chloride	ND	mg/kg dry	0.0525	82	1	05/20/09
Naphthalene	ND	mg/kg dry	0.0105	1000	1	05/20/09
n-Butylbenzene	ND	mg/kg dry	0.0105	500	1	05/20/09
n-Propylbenzene	ND	mg/kg dry	0.0105	500	1	05/20/09
sec-Butylbenzene	ND	mg/kg dry	0.0105	500	1	05/20/09
Styrene	ND	mg/kg dry	0.0105	500	1	05/20/09
tert-Butylbenzene	ND	mg/kg dry	0.0105	500	1	05/20/09
Tertiary-amyl methyl ether	ND	mg/kg dry	0.0105		1	05/20/09
Tetrachloroethene	ND	mg/kg dry	0.0105	12	1	05/20/09
Tetrahydrofuran	ND	mg/kg dry	0.0105		1	05/20/09
Toluene	ND	mg/kg dry	0.0105	500	1	05/20/09
trans-1,2-Dichloroethene	ND	mg/kg dry	0.0105	500	1	05/20/09
trans-1,3-Dichloropropene	ND	mg/kg dry	0.0105	3.4	1	05/20/09
Trans-1,4-Dichloro-2-Butene	ND	mg/kg dry	0.0105		1	05/20/09
Trichloroethene	ND	mg/kg dry	0.0105	56	1	05/20/09
Trichlorofluoromethane	ND	mg/kg dry	0.0105	500	1	05/20/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-30 4-4.5
Date Sampled: 05/18/09 12:00
Percent Solids: 85
Initial Volume: 2.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-05
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Vinyl Chloride	ND	mg/kg dry	0.0210	0.32	1	05/20/09
Xylene O	ND	mg/kg dry	0.0105	500	1	05/20/09
Xylene P,M	ND	mg/kg dry	0.0210	500	1	05/20/09
Xylenes (Total)	ND	mg/kg dry	0.0315	500	0	05/20/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*102 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*97 %*		*70-130*
Surrogate: Dibromofluoromethane	*98 %*		*70-130*
Surrogate: Toluene-d8	*103 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-30 4-4.5
Date Sampled: 05/18/09 12:00
Percent Solids: 85
Initial Volume: 14.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-05
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/19/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	**10.2**	mg/kg dry	8.16	474	10	05/19/09
Acenaphthene	ND	mg/kg dry	8.16	1000	10	05/19/09
Acenaphthylene	ND	mg/kg dry	8.16	1000	10	05/19/09
Anthracene	**22.8**	mg/kg dry	8.16	1000	10	05/19/09
Benzo(a)anthracene	**37.5**	mg/kg dry	8.16	1	10	05/19/09
Benzo(a)pyrene	**22.8**	mg/kg dry	4.09	1	10	05/19/09
Benzo(b)fluoranthene	**18.6**	mg/kg dry	8.16	1	10	05/19/09
Benzo(g,h,i)perylene	ND	mg/kg dry	8.16	1000	10	05/19/09
Benzo(k)fluoranthene	**21.7**	mg/kg dry	8.16	8.4	10	05/19/09
Chrysene	**30.5**	mg/kg dry	4.09	84	10	05/19/09
Dibenzo(a,h)Anthracene	**4.75**	mg/kg dry	4.09	0.33	10	05/19/09
Fluoranthene	**68.7**	mg/kg dry	8.16	1000	10	05/19/09
Fluorene	**11.3**	mg/kg dry	8.16	1000	10	05/19/09
Indeno(1,2,3-cd)Pyrene	**10.2**	mg/kg dry	8.16	1	10	05/19/09
Naphthalene	ND	mg/kg dry	8.16	1000	10	05/19/09
Phenanthrene	**74.1**	mg/kg dry	8.16	1000	10	05/19/09
Pyrene	**52.6**	mg/kg dry	8.16	1000	10	05/19/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*90 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*90 %*		*30-130*
Surrogate: Nitrobenzene-d5	*97 %*		*30-130*
Surrogate: p-Terphenyl-d14	*103 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-30 4-4.5
Date Sampled: 05/18/09 12:00
Percent Solids: 85

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-05
Sample Matrix: Soil

Classical Chemistry

					CT - RES DEC			
Analyte	**Results**	**Units**	**MRL**	**Method**	**Limit**	**DF**	**Analyst**	**Analyzed**
Total Cyanide	ND	mg/kg dry	2.74	9014	1400	1	EEM	05/19/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-30 4-4.5
Date Sampled: 05/18/09 12:00
Percent Solids: 85
Initial Volume: 19.6
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-05
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	**362**	mg/kg dry	24.0	500	1	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*61 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-32 Comp
Date Sampled: 05/18/09 12:25
Percent Solids: 91

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-06
Sample Matrix: Soil

3050B/6000/7000 Total Metals

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.2	6010B	27	1	SVD	05/20/09	1.76	100
Arsenic	**6.0**	mg/kg dry	3.1	6010B	10	1	SVD	05/20/09	1.76	100
Beryllium	**0.20**	mg/kg dry	0.07	6010B	2	1	SVD	05/20/09	1.76	100
Cadmium	ND	mg/kg dry	0.63	6010B	34	1	SVD	05/20/09	1.76	100
Chromium	**14.0**	mg/kg dry	1.2	6010B	3900	1	SVD	05/20/09	1.76	100
Copper	**14.5**	mg/kg dry	1.2	6010B	2500	1	SVD	05/20/09	1.76	100
Lead	**76.0**	mg/kg dry	6.2	6010B	400	1	SVD	05/20/09	1.76	100
Mercury	**0.070**	mg/kg dry	0.034	7471A	20	1	KAB	05/21/09	0.64	40
Nickel	**9.7**	mg/kg dry	3.1	6010B	1400	1	SVD	05/20/09	1.76	100
Selenium	ND	mg/kg dry	6.2	6010B	340	1	SVD	05/20/09	1.76	100
Silver	ND	mg/kg dry	0.63	6010B	340	1	SVD	05/20/09	1.76	100
Thallium	ND	mg/kg dry	1.55	7841	5.4	5	SVD	05/21/09	1.76	100
Zinc	**54.2**	mg/kg dry	3.1	6010B	20000	1	SVD	05/20/09	1.76	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-32 Comp
Date Sampled: 05/18/09 12:25
Percent Solids: 91
Initial Volume: 14.6
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-06
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/19/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	0.376	474	1	05/19/09
Acenaphthene	ND	mg/kg dry	0.376	1000	1	05/19/09
Acenaphthylene	ND	mg/kg dry	0.376	1000	1	05/19/09
Anthracene	ND	mg/kg dry	0.376	1000	1	05/19/09
Benzo(a)anthracene	ND	mg/kg dry	0.376	1	1	05/19/09
Benzo(a)pyrene	**0.260**	mg/kg dry	0.189	1	1	05/19/09
Benzo(b)fluoranthene	ND	mg/kg dry	0.376	1	1	05/19/09
Benzo(g,h,i)perylene	ND	mg/kg dry	0.376	1000	1	05/19/09
Benzo(k)fluoranthene	ND	mg/kg dry	0.376	8.4	1	05/19/09
Chrysene	**0.313**	mg/kg dry	0.189	84	1	05/19/09
Dibenzo(a,h)Anthracene	ND	mg/kg dry	0.189	0.33	1	05/19/09
Fluoranthene	**0.476**	mg/kg dry	0.376	1000	1	05/19/09
Fluorene	ND	mg/kg dry	0.376	1000	1	05/19/09
Indeno(1,2,3-cd)Pyrene	ND	mg/kg dry	0.376	1	1	05/19/09
Naphthalene	ND	mg/kg dry	0.376	1000	1	05/19/09
Phenanthrene	ND	mg/kg dry	0.376	1000	1	05/19/09
Pyrene	**0.443**	mg/kg dry	0.376	1000	1	05/19/09

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*74 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*87 %*		*30-130*
Surrogate: Nitrobenzene-d5	*74 %*		*30-130*
Surrogate: p-Terphenyl-d14	*94 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-32 Comp
Date Sampled: 05/18/09 12:25
Percent Solids: 91

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-06
Sample Matrix: Soil

Classical Chemistry

					CT - RES DEC			
Analyte	**Results**	**Units**	**MRL**	**Method**	**Limit**	**DF**	**Analyst**	**Analyzed**
Total Cyanide	ND	mg/kg dry	2.51	9014	1400	1	EEM	05/19/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-32 Comp
Date Sampled: 05/18/09 12:25
Percent Solids: 91
Initial Volume: 19.9
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-06
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	**42.6**	mg/kg dry	22.1	500	1	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*94 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-33 6-7
Date Sampled: 05/18/09 12:55
Percent Solids: 79

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-07
Sample Matrix: Soil

3050B/6000/7000 Total Metals

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	7.2	6010B	27	1	SVD	05/20/09	1.77	100
Arsenic	**8.0**	mg/kg dry	3.6	6010B	10	1	SVD	05/20/09	1.77	100
Beryllium	**0.09**	mg/kg dry	0.08	6010B	2	1	SVD	05/20/09	1.77	100
Cadmium	ND	mg/kg dry	0.72	6010B	34	1	SVD	05/20/09	1.77	100
Chromium	**7.5**	mg/kg dry	1.4	6010B	3900	1	SVD	05/20/09	1.77	100
Copper	**9.6**	mg/kg dry	1.4	6010B	2500	1	SVD	05/20/09	1.77	100
Lead	**25.2**	mg/kg dry	7.2	6010B	400	1	SVD	05/20/09	1.77	100
Mercury	**0.151**	mg/kg dry	0.040	7471A	20	1	KAB	05/21/09	0.63	40
Nickel	**5.5**	mg/kg dry	3.6	6010B	1400	1	SVD	05/20/09	1.77	100
Selenium	ND	mg/kg dry	7.2	6010B	340	1	SVD	05/20/09	1.77	100
Silver	ND	mg/kg dry	0.72	6010B	340	1	SVD	05/20/09	1.77	100
Thallium	ND	mg/kg dry	1.77	7841	5.4	5	SVD	05/21/09	1.77	100
Zinc	**29.7**	mg/kg dry	3.6	6010B	20000	1	SVD	05/20/09	1.77	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-33 6-7
Date Sampled: 05/18/09 12:55
Percent Solids: 79
Initial Volume: 3.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-07
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg dry	0.0102	24	1	05/19/09
1,1,1-Trichloroethane	ND	mg/kg dry	0.0102	500	1	05/19/09
1,1,2,2-Tetrachloroethane	ND	mg/kg dry	0.0102	3.1	1	05/19/09
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg dry	0.0102		1	05/19/09
1,1,2-Trichloroethane	ND	mg/kg dry	0.0102	11	1	05/19/09
1,1-Dichloroethane	ND	mg/kg dry	0.0102	500	1	05/19/09
1,1-Dichloroethene	ND	mg/kg dry	0.0102	1	1	05/19/09
1,1-Dichloropropene	ND	mg/kg dry	0.0102		1	05/19/09
1,2,3-Trichlorobenzene	ND	mg/kg dry	0.0102		1	05/19/09
1,2,3-Trichloropropane	ND	mg/kg dry	0.0102		1	05/19/09
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.0102	680	1	05/19/09
1,2,4-Trimethylbenzene	ND	mg/kg dry	0.0102	500	1	05/19/09
1,2-Dibromo-3-Chloropropane	ND	mg/kg dry	0.0102	0.44	1	05/19/09
1,2-Dibromoethane	ND	mg/kg dry	0.0102	0.007	1	05/19/09
1,2-Dichlorobenzene	ND	mg/kg dry	0.0102	500	1	05/19/09
1,2-Dichloroethane	ND	mg/kg dry	0.0102	6.7	1	05/19/09
1,2-Dichloropropane	ND	mg/kg dry	0.0102	9	1	05/19/09
1,3,5-Trimethylbenzene	ND	mg/kg dry	0.0102	500	1	05/19/09
1,3-Dichlorobenzene	ND	mg/kg dry	0.0102	500	1	05/19/09
1,3-Dichloropropane	ND	mg/kg dry	0.0102		1	05/19/09
1,4-Dichlorobenzene	ND	mg/kg dry	0.0102	26	1	05/19/09
1,4-Dioxane	ND	mg/kg dry	0.204	0.2	1	05/19/09
2,2-Dichloropropane	ND	mg/kg dry	0.0102		1	05/19/09
2-Butanone	ND	mg/kg dry	0.102	500	1	05/19/09
2-Chlorotoluene	ND	mg/kg dry	0.0102	500	1	05/19/09
2-Hexanone	ND	mg/kg dry	0.102		1	05/19/09
4-Chlorotoluene	ND	mg/kg dry	0.0102	500	1	05/19/09
4-Isopropyltoluene	ND	mg/kg dry	0.0102	500	1	05/19/09
4-Methyl-2-Pentanone	ND	mg/kg dry	0.102	500	1	05/19/09
Acetone	ND	mg/kg dry	0.102	500	1	05/19/09
Acrylonitrile	ND	mg/kg dry	0.0102	1.1	1	05/19/09
Benzene	ND	mg/kg dry	0.0102	21	1	05/19/09
Bromobenzene	ND	mg/kg dry	0.0102		1	05/19/09
Bromochloromethane	ND	mg/kg dry	0.0102		1	05/19/09
Bromodichloromethane	ND	mg/kg dry	0.0102	9.9	1	05/19/09

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-33 6-7
Date Sampled: 05/18/09 12:55
Percent Solids: 79
Initial Volume: 3.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-07
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromoform	ND	mg/kg dry	0.0102	78	1	05/19/09
Bromomethane	ND	mg/kg dry	0.0204	95	1	05/19/09
Carbon Disulfide	ND	mg/kg dry	0.0102	500	1	05/19/09
Carbon Tetrachloride	ND	mg/kg dry	0.0102	4.7	1	05/19/09
Chlorobenzene	ND	mg/kg dry	0.0102	500	1	05/19/09
Chloroethane	ND	mg/kg dry	0.0204		1	05/19/09
Chloroform	ND	mg/kg dry	0.0102	100	1	05/19/09
Chloromethane	ND	mg/kg dry	0.0204	47	1	05/19/09
cis-1,2-Dichloroethene	ND	mg/kg dry	0.0102	500	1	05/19/09
cis-1,3-Dichloropropene	ND	mg/kg dry	0.0102	3.4	1	05/19/09
Dibromochloromethane	ND	mg/kg dry	0.0102	7.3	1	05/19/09
Dibromomethane	ND	mg/kg dry	0.0102		1	05/19/09
Dichlorodifluoromethane	ND	mg/kg dry	0.0204		1	05/19/09
Diethyl Ether	ND	mg/kg dry	0.0102		1	05/19/09
Di-isopropyl ether	ND	mg/kg dry	0.0102		1	05/19/09
Ethyl tertiary-butyl ether	ND	mg/kg dry	0.0102		1	05/19/09
Ethylbenzene	ND	mg/kg dry	0.0102	500	1	05/19/09
Hexachlorobutadiene	ND	mg/kg dry	0.0102	7.9	1	05/19/09
Isopropylbenzene	ND	mg/kg dry	0.0102	500	1	05/19/09
Methyl tert-Butyl Ether	ND	mg/kg dry	0.0102	500	1	05/19/09
Methylene Chloride	ND	mg/kg dry	0.0510	82	1	05/19/09
Naphthalene	ND	mg/kg dry	0.0102	1000	1	05/19/09
n-Butylbenzene	ND	mg/kg dry	0.0102	500	1	05/19/09
n-Propylbenzene	ND	mg/kg dry	0.0102	500	1	05/19/09
sec-Butylbenzene	ND	mg/kg dry	0.0102	500	1	05/19/09
Styrene	ND	mg/kg dry	0.0102	500	1	05/19/09
tert-Butylbenzene	ND	mg/kg dry	0.0102	500	1	05/19/09
Tertiary-amyl methyl ether	ND	mg/kg dry	0.0102		1	05/19/09
Tetrachloroethene	ND	mg/kg dry	0.0102	12	1	05/19/09
Tetrahydrofuran	ND	mg/kg dry	0.0102		1	05/19/09
Toluene	ND	mg/kg dry	0.0102	500	1	05/19/09
trans-1,2-Dichloroethene	ND	mg/kg dry	0.0102	500	1	05/19/09
trans-1,3-Dichloropropene	ND	mg/kg dry	0.0102	3.4	1	05/19/09
Trans-1,4-Dichloro-2-Butene	ND	mg/kg dry	0.0102		1	05/19/09
Trichloroethene	ND	mg/kg dry	0.0102	56	1	05/19/09
Trichlorofluoromethane	ND	mg/kg dry	0.0102	500	1	05/19/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-33 6-7
Date Sampled: 05/18/09 12:55
Percent Solids: 79
Initial Volume: 3.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-07
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Vinyl Chloride	ND	mg/kg dry	0.0204	0.32	1	05/19/09
Xylene O	ND	mg/kg dry	0.0102	500	1	05/19/09
Xylene P,M	ND	mg/kg dry	0.0204	500	1	05/19/09
Xylenes (Total)	ND	mg/kg dry	0.0306	500	0	05/19/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*117 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*90 %*		*70-130*
Surrogate: Dibromofluoromethane	*108 %*		*70-130*
Surrogate: Toluene-d8	*106 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-33 6-7
Date Sampled: 05/18/09 12:55
Percent Solids: 79
Initial Volume: 14.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-07
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/19/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	8.72	474	10	05/20/09
Acenaphthene	ND	mg/kg dry	8.72	1000	10	05/20/09
Acenaphthylene	ND	mg/kg dry	8.72	1000	10	05/20/09
Anthracene	**10.4**	mg/kg dry	8.72	1000	10	05/20/09
Benzo(a)anthracene	**82.3**	mg/kg dry	8.72	1	10	05/20/09
Benzo(a)pyrene	**89.1**	mg/kg dry	4.37	1	10	05/20/09
Benzo(b)fluoranthene	**99.2**	mg/kg dry	8.72	1	10	05/20/09
Benzo(g,h,i)perylene	**41.7**	mg/kg dry	8.72	1000	10	05/20/09
Benzo(k)fluoranthene	**56.0**	mg/kg dry	8.72	8.4	10	05/20/09
Chrysene	**68.7**	mg/kg dry	4.37	84	10	05/20/09
Dibenzo(a,h)Anthracene	**15.1**	mg/kg dry	4.37	0.33	10	05/20/09
Fluoranthene	**124**	mg/kg dry	8.72	1000	10	05/20/09
Fluorene	ND	mg/kg dry	8.72	1000	10	05/20/09
Indeno(1,2,3-cd)Pyrene	**48.3**	mg/kg dry	8.72	1	10	05/20/09
Naphthalene	ND	mg/kg dry	8.72	1000	10	05/20/09
Phenanthrene	**16.9**	mg/kg dry	8.72	1000	10	05/20/09
Pyrene	**110**	mg/kg dry	8.72	1000	10	05/20/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*113 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*105 %*		*30-130*
Surrogate: Nitrobenzene-d5	*105 %*		*30-130*
Surrogate: p-Terphenyl-d14	*115 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-33 6-7
Date Sampled: 05/18/09 12:55
Percent Solids: 79

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-07
Sample Matrix: Soil

Classical Chemistry

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed
Total Cyanide	**62.2**	mg/kg dry	30.5	9014	1400	10	EEM	05/19/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-33 6-7
Date Sampled: 05/18/09 12:55
Percent Solids: 79
Initial Volume: 20.7
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-07
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	**1540**	mg/kg dry	122	500	5	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*77 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-34 6-7
Date Sampled: 05/18/09 13:05
Percent Solids: 75

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-08
Sample Matrix: Soil

3050B/6000/7000 Total Metals

					CT - RES DEC					
Analyte	**Results**	**Units**	**MRL**	**Method**	**Limit**	**DF**	**Analyst**	**Analyzed**	**I/V**	**F/V**
Antimony	ND	mg/kg dry	7.5	6010B	27	1	SVD	05/20/09	1.77	100
Arsenic	**7.3**	mg/kg dry	3.8	6010B	10	1	SVD	05/20/09	1.77	100
Beryllium	ND	mg/kg dry	0.08	6010B	2	1	SVD	05/20/09	1.77	100
Cadmium	ND	mg/kg dry	0.76	6010B	34	1	SVD	05/20/09	1.77	100
Chromium	**5.6**	mg/kg dry	1.5	6010B	3900	1	SVD	05/20/09	1.77	100
Copper	**9.8**	mg/kg dry	1.5	6010B	2500	1	SVD	05/20/09	1.77	100
Lead	**25.2**	mg/kg dry	7.5	6010B	400	1	SVD	05/20/09	1.77	100
Mercury	**0.150**	mg/kg dry	0.044	7471A	20	1	KAB	05/21/09	0.6	40
Nickel	**4.8**	mg/kg dry	3.8	6010B	1400	1	SVD	05/20/09	1.77	100
Selenium	ND	mg/kg dry	7.5	6010B	340	1	SVD	05/20/09	1.77	100
Silver	ND	mg/kg dry	0.76	6010B	340	1	SVD	05/20/09	1.77	100
Thallium	ND	mg/kg dry	1.86	7841	5.4	5	SVD	05/21/09	1.77	100
Zinc	**31.2**	mg/kg dry	3.8	6010B	20000	1	SVD	05/20/09	1.77	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-34 6-7
Date Sampled: 05/18/09 13:05
Percent Solids: 75
Initial Volume: 3.5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-08
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg dry	0.0095	24	1	05/21/09
1,1,1-Trichloroethane	ND	mg/kg dry	0.0095	500	1	05/21/09
1,1,2,2-Tetrachloroethane	ND	mg/kg dry	0.0095	3.1	1	05/21/09
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg dry	0.0095		1	05/21/09
1,1,2-Trichloroethane	ND	mg/kg dry	0.0095	11	1	05/21/09
1,1-Dichloroethane	ND	mg/kg dry	0.0095	500	1	05/21/09
1,1-Dichloroethene	ND	mg/kg dry	0.0095	1	1	05/21/09
1,1-Dichloropropene	ND	mg/kg dry	0.0095		1	05/21/09
1,2,3-Trichlorobenzene	ND	mg/kg dry	0.0095		1	05/21/09
1,2,3-Trichloropropane	ND	mg/kg dry	0.0095		1	05/21/09
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.0095	680	1	05/21/09
1,2,4-Trimethylbenzene	ND	mg/kg dry	0.0095	500	1	05/21/09
1,2-Dibromo-3-Chloropropane	ND	mg/kg dry	0.0095	0.44	1	05/21/09
1,2-Dibromoethane	ND	mg/kg dry	0.0095	0.007	1	05/21/09
1,2-Dichlorobenzene	ND	mg/kg dry	0.0095	500	1	05/21/09
1,2-Dichloroethane	ND	mg/kg dry	0.0095	6.7	1	05/21/09
1,2-Dichloropropane	ND	mg/kg dry	0.0095	9	1	05/21/09
1,3,5-Trimethylbenzene	ND	mg/kg dry	0.0095	500	1	05/21/09
1,3-Dichlorobenzene	ND	mg/kg dry	0.0095	500	1	05/21/09
1,3-Dichloropropane	ND	mg/kg dry	0.0095		1	05/21/09
1,4-Dichlorobenzene	ND	mg/kg dry	0.0095	26	1	05/21/09
1,4-Dioxane	ND	mg/kg dry	0.190	0.2	1	05/21/09
2,2-Dichloropropane	ND	mg/kg dry	0.0095		1	05/21/09
2-Butanone	ND	mg/kg dry	0.0952	500	1	05/21/09
2-Chlorotoluene	ND	mg/kg dry	0.0095	500	1	05/21/09
2-Hexanone	ND	mg/kg dry	0.0952		1	05/21/09
4-Chlorotoluene	ND	mg/kg dry	0.0095	500	1	05/21/09
4-Isopropyltoluene	ND	mg/kg dry	0.0095	500	1	05/21/09
4-Methyl-2-Pentanone	ND	mg/kg dry	0.0952	500	1	05/21/09
Acetone	ND	mg/kg dry	0.0952	500	1	05/21/09
Acrylonitrile	ND	mg/kg dry	0.0095	1.1	1	05/21/09
Benzene	ND	mg/kg dry	0.0095	21	1	05/21/09
Bromobenzene	ND	mg/kg dry	0.0095		1	05/21/09
Bromochloromethane	ND	mg/kg dry	0.0095		1	05/21/09
Bromodichloromethane	ND	mg/kg dry	0.0095	9.9	1	05/21/09

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-34 6-7
Date Sampled: 05/18/09 13:05
Percent Solids: 75
Initial Volume: 3.5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-08
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromoform	ND	mg/kg dry	0.0095	78	1	05/21/09
Bromomethane	ND	mg/kg dry	0.0190	95	1	05/21/09
Carbon Disulfide	ND	mg/kg dry	0.0095	500	1	05/21/09
Carbon Tetrachloride	ND	mg/kg dry	0.0095	4.7	1	05/21/09
Chlorobenzene	ND	mg/kg dry	0.0095	500	1	05/21/09
Chloroethane	ND	mg/kg dry	0.0190		1	05/21/09
Chloroform	ND	mg/kg dry	0.0095	100	1	05/21/09
Chloromethane	ND	mg/kg dry	0.0190	47	1	05/21/09
cis-1,2-Dichloroethene	ND	mg/kg dry	0.0095	500	1	05/21/09
cis-1,3-Dichloropropene	ND	mg/kg dry	0.0095	3.4	1	05/21/09
Dibromochloromethane	ND	mg/kg dry	0.0095	7.3	1	05/21/09
Dibromomethane	ND	mg/kg dry	0.0095		1	05/21/09
Dichlorodifluoromethane	ND	mg/kg dry	0.0190		1	05/21/09
Diethyl Ether	ND	mg/kg dry	0.0095		1	05/21/09
Di-isopropyl ether	ND	mg/kg dry	0.0095		1	05/21/09
Ethyl tertiary-butyl ether	ND	mg/kg dry	0.0095		1	05/21/09
Ethylbenzene	ND	mg/kg dry	0.0095	500	1	05/21/09
Hexachlorobutadiene	ND	mg/kg dry	0.0095	7.9	1	05/21/09
Isopropylbenzene	ND	mg/kg dry	0.0095	500	1	05/21/09
Methyl tert-Butyl Ether	ND	mg/kg dry	0.0095	500	1	05/21/09
Methylene Chloride	ND	mg/kg dry	0.0476	82	1	05/21/09
Naphthalene	ND	mg/kg dry	0.0095	1000	1	05/21/09
n-Butylbenzene	ND	mg/kg dry	0.0095	500	1	05/21/09
n-Propylbenzene	ND	mg/kg dry	0.0095	500	1	05/21/09
sec-Butylbenzene	ND	mg/kg dry	0.0095	500	1	05/21/09
Styrene	ND	mg/kg dry	0.0095	500	1	05/21/09
tert-Butylbenzene	ND	mg/kg dry	0.0095	500	1	05/21/09
Tertiary-amyl methyl ether	ND	mg/kg dry	0.0095		1	05/21/09
Tetrachloroethene	ND	mg/kg dry	0.0095	12	1	05/21/09
Tetrahydrofuran	ND	mg/kg dry	0.0095		1	05/21/09
Toluene	ND	mg/kg dry	0.0095	500	1	05/21/09
trans-1,2-Dichloroethene	ND	mg/kg dry	0.0095	500	1	05/21/09
trans-1,3-Dichloropropene	ND	mg/kg dry	0.0095	3.4	1	05/21/09
Trans-1,4-Dichloro-2-Butene	ND	mg/kg dry	0.0095		1	05/21/09
Trichloroethene	ND	mg/kg dry	0.0095	56	1	05/21/09
Trichlorofluoromethane	ND	mg/kg dry	0.0095	500	1	05/21/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-34 6-7
Date Sampled: 05/18/09 13:05
Percent Solids: 75
Initial Volume: 3.5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-08
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Vinyl Chloride	ND	mg/kg dry	0.0190	0.32	1	05/21/09
Xylene O	ND	mg/kg dry	0.0095	500	1	05/21/09
Xylene P,M	ND	mg/kg dry	0.0190	500	1	05/21/09
Xylenes (Total)	ND	mg/kg dry	0.0286	500	0	05/21/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*101 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*89 %*		*70-130*
Surrogate: Dibromofluoromethane	*99 %*		*70-130*
Surrogate: Toluene-d8	*103 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-34 6-7
Date Sampled: 05/18/09 13:05
Percent Solids: 75
Initial Volume: 14.7
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-08
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/19/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	9.06	474	10	05/20/09
Acenaphthene	ND	mg/kg dry	9.06	1000	10	05/20/09
Acenaphthylene	**9.45**	mg/kg dry	9.06	1000	10	05/20/09
Anthracene	**54.0**	mg/kg dry	9.06	1000	10	05/20/09
Benzo(a)anthracene	**465**	mg/kg dry	45.3	1	50	05/20/09
Benzo(a)pyrene	**429**	mg/kg dry	22.7	1	50	05/20/09
Benzo(b)fluoranthene	**438**	mg/kg dry	45.3	1	50	05/20/09
Benzo(g,h,i)perylene	**312**	mg/kg dry	45.3	1000	50	05/20/09
Benzo(k)fluoranthene	**268**	mg/kg dry	45.3	8.4	50	05/20/09
Chrysene	**362**	mg/kg dry	22.7	84	50	05/20/09
Dibenzo(a,h)Anthracene	**59.5**	mg/kg dry	4.54	0.33	10	05/20/09
Fluoranthene	**751**	mg/kg dry	45.3	1000	50	05/20/09
Fluorene	ND	mg/kg dry	9.06	1000	10	05/20/09
Indeno(1,2,3-cd)Pyrene	**318**	mg/kg dry	45.3	1	50	05/20/09
Naphthalene	ND	mg/kg dry	9.06	1000	10	05/20/09
Phenanthrene	**37.2**	mg/kg dry	9.06	1000	10	05/20/09
Pyrene	**762**	mg/kg dry	45.3	1000	50	05/20/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*111 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*95 %*		*30-130*
Surrogate: Nitrobenzene-d5	*94 %*		*30-130*
Surrogate: p-Terphenyl-d14	*146 %*	*S+*	*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-34 6-7
Date Sampled: 05/18/09 13:05
Percent Solids: 75

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-08
Sample Matrix: Soil

Classical Chemistry

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed
Total Cyanide	**58.6**	mg/kg dry	31.4	9014	1400	10	EEM	05/19/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-34 6-7
Date Sampled: 05/18/09 13:05
Percent Solids: 75
Initial Volume: 20.6
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-08
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	**5130**	mg/kg dry	259	500	10	05/21/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	%	SM	50-150

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-31 Comp
Date Sampled: 05/18/09 13:15
Percent Solids: 95

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-09
Sample Matrix: Soil

3050B/6000/7000 Total Metals

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	5.9	6010B	27	1	SVD	05/20/09	1.78	100
Arsenic	**7.2**	mg/kg dry	3.0	6010B	10	1	SVD	05/20/09	1.78	100
Beryllium	**0.19**	mg/kg dry	0.06	6010B	2	1	SVD	05/20/09	1.78	100
Cadmium	ND	mg/kg dry	0.59	6010B	34	1	SVD	05/20/09	1.78	100
Chromium	**9.7**	mg/kg dry	1.2	6010B	3900	1	SVD	05/20/09	1.78	100
Copper	**8.6**	mg/kg dry	1.2	6010B	2500	1	SVD	05/20/09	1.78	100
Lead	**8.9**	mg/kg dry	5.9	6010B	400	1	SVD	05/20/09	1.78	100
Mercury	ND	mg/kg dry	0.034	7471A	20	1	KAB	05/21/09	0.62	40
Nickel	**7.7**	mg/kg dry	3.0	6010B	1400	1	SVD	05/20/09	1.78	100
Selenium	ND	mg/kg dry	5.9	6010B	340	1	SVD	05/20/09	1.78	100
Silver	ND	mg/kg dry	0.59	6010B	340	1	SVD	05/20/09	1.78	100
Thallium	ND	mg/kg dry	1.46	7841	5.4	5	SVD	05/21/09	1.78	100
Zinc	**11.6**	mg/kg dry	3.0	6010B	20000	1	SVD	05/20/09	1.78	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-31 Comp
Date Sampled: 05/18/09 13:15
Percent Solids: 95
Initial Volume: 14.8
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-09
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/19/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	0.355	474	1	05/19/09
Acenaphthene	ND	mg/kg dry	0.355	1000	1	05/19/09
Acenaphthylene	ND	mg/kg dry	0.355	1000	1	05/19/09
Anthracene	ND	mg/kg dry	0.355	1000	1	05/19/09
Benzo(a)anthracene	ND	mg/kg dry	0.355	1	1	05/19/09
Benzo(a)pyrene	ND	mg/kg dry	0.178	1	1	05/19/09
Benzo(b)fluoranthene	ND	mg/kg dry	0.355	1	1	05/19/09
Benzo(g,h,i)perylene	ND	mg/kg dry	0.355	1000	1	05/19/09
Benzo(k)fluoranthene	ND	mg/kg dry	0.355	8.4	1	05/19/09
Chrysene	ND	mg/kg dry	0.178	84	1	05/19/09
Dibenzo(a,h)Anthracene	ND	mg/kg dry	0.178	0.33	1	05/19/09
Fluoranthene	ND	mg/kg dry	0.355	1000	1	05/19/09
Fluorene	ND	mg/kg dry	0.355	1000	1	05/19/09
Indeno(1,2,3-cd)Pyrene	ND	mg/kg dry	0.355	1	1	05/19/09
Naphthalene	ND	mg/kg dry	0.355	1000	1	05/19/09
Phenanthrene	ND	mg/kg dry	0.355	1000	1	05/19/09
Pyrene	ND	mg/kg dry	0.355	1000	1	05/19/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*54 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*51 %*		*30-130*
Surrogate: Nitrobenzene-d5	*52 %*		*30-130*
Surrogate: p-Terphenyl-d14	*94 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-31 Comp
Date Sampled: 05/18/09 13:15
Percent Solids: 95
Initial Volume: 19.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-09
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	ND	mg/kg dry	21.8	500	1	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*95 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-02 8
Date Sampled: 05/18/09 10:00
Percent Solids: 85

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-10
Sample Matrix: Soil

3050B/6000/7000 Total Metals

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.5	6010B	27	1	SVD	05/20/09	1.8	100
Arsenic	**5.5**	mg/kg dry	3.3	6010B	10	1	SVD	05/20/09	1.8	100
Beryllium	**0.21**	mg/kg dry	0.07	6010B	2	1	SVD	05/20/09	1.8	100
Cadmium	ND	mg/kg dry	0.66	6010B	34	1	SVD	05/20/09	1.8	100
Chromium	**19.0**	mg/kg dry	1.3	6010B	3900	1	SVD	05/20/09	1.8	100
Copper	**9.0**	mg/kg dry	1.3	6010B	2500	1	SVD	05/20/09	1.8	100
Lead	ND	mg/kg dry	6.5	6010B	400	1	SVD	05/20/09	1.8	100
Mercury	ND	mg/kg dry	0.039	7471A	20	1	KAB	05/21/09	0.6	40
Nickel	**14.0**	mg/kg dry	3.3	6010B	1400	1	SVD	05/20/09	1.8	100
Selenium	ND	mg/kg dry	6.5	6010B	340	1	SVD	05/20/09	1.8	100
Silver	ND	mg/kg dry	0.66	6010B	340	1	SVD	05/20/09	1.8	100
Thallium	ND	mg/kg dry	1.62	7841	5.4	5	SVD	05/21/09	1.8	100
Zinc	**12.4**	mg/kg dry	3.3	6010B	20000	1	SVD	05/20/09	1.8	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-02 8
Date Sampled: 05/18/09 10:00
Percent Solids: 85
Initial Volume: 3.5
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-10
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg dry	0.522	24	1	05/20/09
1,1,1-Trichloroethane	ND	mg/kg dry	0.261	500	1	05/20/09
1,1,2,2-Tetrachloroethane	ND	mg/kg dry	0.261	3.1	1	05/20/09
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg dry	0.261		1	05/20/09
1,1,2-Trichloroethane	ND	mg/kg dry	0.261	11	1	05/20/09
1,1-Dichloroethane	ND	mg/kg dry	0.261	500	1	05/20/09
1,1-Dichloroethene	ND	mg/kg dry	0.261	1	1	05/20/09
1,1-Dichloropropene	ND	mg/kg dry	0.261		1	05/20/09
1,2,3-Trichlorobenzene	ND	mg/kg dry	0.261		1	05/20/09
1,2,3-Trichloropropane	ND	mg/kg dry	0.261		1	05/20/09
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.261	680	1	05/20/09
1,2,4-Trimethylbenzene	ND	mg/kg dry	0.261	500	1	05/20/09
1,2-Dibromo-3-Chloropropane	ND	mg/kg dry	1.57	0.44	1	05/20/09
1,2-Dibromoethane	ND	mg/kg dry	0.261	0.007	1	05/20/09
1,2-Dichlorobenzene	**0.303**	mg/kg dry	0.261	500	1	05/20/09
1,2-Dichloroethane	ND	mg/kg dry	0.261	6.7	1	05/20/09
1,2-Dichloropropane	ND	mg/kg dry	0.261	9	1	05/20/09
1,3,5-Trimethylbenzene	ND	mg/kg dry	0.261	500	1	05/20/09
1,3-Dichlorobenzene	ND	mg/kg dry	0.261	500	1	05/20/09
1,3-Dichloropropane	ND	mg/kg dry	0.261		1	05/20/09
1,4-Dichlorobenzene	**1.06**	mg/kg dry	0.261	26	1	05/20/09
1,4-Dioxane - Screen	ND	mg/kg dry	26.1		1	05/20/09
2,2-Dichloropropane	ND	mg/kg dry	0.522		1	05/20/09
2-Butanone	ND	mg/kg dry	6.52	500	1	05/20/09
2-Chlorotoluene	ND	mg/kg dry	0.261	500	1	05/20/09
2-Hexanone	ND	mg/kg dry	2.61		1	05/20/09
4-Chlorotoluene	ND	mg/kg dry	0.261	500	1	05/20/09
4-Isopropyltoluene	**2.07**	mg/kg dry	0.261	500	1	05/20/09
4-Methyl-2-Pentanone	ND	mg/kg dry	2.61	500	1	05/20/09
Acetone	ND	mg/kg dry	6.52	500	1	05/20/09
Acrylonitrile	ND	mg/kg dry	2.09	1.1	1	05/20/09
Benzene	ND	mg/kg dry	0.261	21	1	05/20/09
Bromobenzene	ND	mg/kg dry	0.261		1	05/20/09
Bromochloromethane	ND	mg/kg dry	0.261		1	05/20/09
Bromodichloromethane	ND	mg/kg dry	0.261	9.9	1	05/20/09

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-02 8
Date Sampled: 05/18/09 10:00
Percent Solids: 85
Initial Volume: 3.5
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-10
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Bromoform	ND	mg/kg dry	0.261	78	1	05/20/09
Bromomethane	ND	mg/kg dry	0.522	95	1	05/20/09
Carbon Disulfide	ND	mg/kg dry	0.261	500	1	05/20/09
Carbon Tetrachloride	ND	mg/kg dry	0.261	4.7	1	05/20/09
Chlorobenzene	**1.33**	mg/kg dry	0.261	500	1	05/20/09
Chloroethane	ND	mg/kg dry	0.522		1	05/20/09
Chloroform	ND	mg/kg dry	0.261	100	1	05/20/09
Chloromethane	ND	mg/kg dry	0.522	47	1	05/20/09
cis-1,2-Dichloroethene	ND	mg/kg dry	0.261	500	1	05/20/09
cis-1,3-Dichloropropene	ND	mg/kg dry	0.261	3.4	1	05/20/09
Dibromochloromethane	ND	mg/kg dry	0.261	7.3	1	05/20/09
Dibromomethane	ND	mg/kg dry	0.261		1	05/20/09
Dichlorodifluoromethane	ND	mg/kg dry	0.261		1	05/20/09
Diethyl Ether	ND	mg/kg dry	0.261		1	05/20/09
Di-isopropyl ether	ND	mg/kg dry	0.261		1	05/20/09
Ethyl tertiary-butyl ether	ND	mg/kg dry	0.261		1	05/20/09
Ethylbenzene	**3.21**	mg/kg dry	0.261	500	1	05/20/09
Hexachlorobutadiene	ND	mg/kg dry	0.261	7.9	1	05/20/09
Isopropylbenzene	**2.19**	mg/kg dry	0.261	500	1	05/20/09
Methyl tert-Butyl Ether	ND	mg/kg dry	0.261	500	1	05/20/09
Methylene Chloride	ND	mg/kg dry	1.30	82	1	05/20/09
Naphthalene	**61.6**	mg/kg dry	2.61	1000	10	05/21/09
n-Butylbenzene	**5.19**	mg/kg dry	0.261	500	1	05/20/09
n-Propylbenzene	**3.58**	mg/kg dry	0.261	500	1	05/20/09
sec-Butylbenzene	**2.54**	mg/kg dry	0.261	500	1	05/20/09
Styrene	ND	mg/kg dry	0.261	500	1	05/20/09
tert-Butylbenzene	ND	mg/kg dry	0.261	500	1	05/20/09
Tertiary-amyl methyl ether	ND	mg/kg dry	0.261		1	05/20/09
Tetrachloroethene	ND	mg/kg dry	0.261	12	1	05/20/09
Tetrahydrofuran	ND	mg/kg dry	2.61		1	05/20/09
Toluene	ND	mg/kg dry	0.261	500	1	05/20/09
trans-1,2-Dichloroethene	ND	mg/kg dry	0.261	500	1	05/20/09
trans-1,3-Dichloropropene	ND	mg/kg dry	0.261	3.4	1	05/20/09
Trans-1,4-Dichloro-2-Butene	ND	mg/kg dry	2.61		1	05/20/09
Trichloroethene	ND	mg/kg dry	0.261	56	1	05/20/09
Trichlorofluoromethane	ND	mg/kg dry	0.261	500	1	05/20/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-02 8
Date Sampled: 05/18/09 10:00
Percent Solids: 85
Initial Volume: 3.5
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-10
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Vinyl Chloride	ND	mg/kg dry	0.261	0.32	1	05/20/09
Xylene O	**0.313**	mg/kg dry	0.261	500	1	05/20/09
Xylene P,M	ND	mg/kg dry	0.522	500	1	05/20/09
Xylenes (Total)	ND	mg/kg dry	0.783	500	1	05/20/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*95 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*92 %*		*70-130*
Surrogate: Dibromofluoromethane	*103 %*		*70-130*
Surrogate: Toluene-d8	*101 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-02 8
Date Sampled: 05/18/09 10:00
Percent Solids: 85
Initial Volume: 14.2
Final Volume: 4
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-10
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/19/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	33.1	474	10	05/20/09
Acenaphthene	ND	mg/kg dry	33.1	1000	10	05/20/09
Acenaphthylene	ND	mg/kg dry	33.1	1000	10	05/20/09
Anthracene	ND	mg/kg dry	33.1	1000	10	05/20/09
Benzo(a)anthracene	ND	mg/kg dry	33.1	1	10	05/20/09
Benzo(a)pyrene	ND	mg/kg dry	16.6	1	10	05/20/09
Benzo(b)fluoranthene	ND	mg/kg dry	33.1	1	10	05/20/09
Benzo(g,h,i)perylene	ND	mg/kg dry	33.1	1000	10	05/20/09
Benzo(k)fluoranthene	ND	mg/kg dry	33.1	8.4	10	05/20/09
Chrysene	ND	mg/kg dry	16.6	84	10	05/20/09
Dibenzo(a,h)Anthracene	ND	mg/kg dry	16.6	0.33	10	05/20/09
Fluoranthene	ND	mg/kg dry	33.1	1000	10	05/20/09
Fluorene	ND	mg/kg dry	33.1	1000	10	05/20/09
Indeno(1,2,3-cd)Pyrene	ND	mg/kg dry	33.1	1	10	05/20/09
Naphthalene	ND	mg/kg dry	33.1	1000	10	05/20/09
Phenanthrene	**36.5**	mg/kg dry	33.1	1000	10	05/20/09
Pyrene	**48.3**	mg/kg dry	33.1	1000	10	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	%	SD	30-130
Surrogate: 2-Fluorobiphenyl	%	SD	30-130
Surrogate: Nitrobenzene-d5	%	SD	30-130
Surrogate: p-Terphenyl-d14	%	SD	30-130

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-02 8
Date Sampled: 05/18/09 10:00
Percent Solids: 85
Initial Volume: 19.9
Final Volume: 4
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-10
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	**40400**	mg/kg dry	946	500	10	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	%	SD	50-150

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-004 8
Date Sampled: 05/18/09 12:00
Percent Solids: 86

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-11
Sample Matrix: Soil

3050B/6000/7000 Total Metals

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.3	6010B	27	1	SVD	05/20/09	1.85	100
Arsenic	**4.9**	mg/kg dry	3.1	6010B	10	1	SVD	05/20/09	1.85	100
Beryllium	**0.20**	mg/kg dry	0.07	6010B	2	1	SVD	05/20/09	1.85	100
Cadmium	ND	mg/kg dry	0.63	6010B	34	1	SVD	05/20/09	1.85	100
Chromium	**18.3**	mg/kg dry	1.3	6010B	3900	1	SVD	05/20/09	1.85	100
Copper	**10.5**	mg/kg dry	1.3	6010B	2500	1	SVD	05/20/09	1.85	100
Lead	**10.8**	mg/kg dry	6.3	6010B	400	1	SVD	05/20/09	1.85	100
Mercury	ND	mg/kg dry	0.036	7471A	20	1	KAB	05/21/09	0.64	40
Nickel	**12.4**	mg/kg dry	3.1	6010B	1400	1	SVD	05/20/09	1.85	100
Selenium	ND	mg/kg dry	6.3	6010B	340	1	SVD	05/20/09	1.85	100
Silver	ND	mg/kg dry	0.63	6010B	340	1	SVD	05/20/09	1.85	100
Thallium	ND	mg/kg dry	1.56	7841	5.4	5	SVD	05/21/09	1.85	100
Zinc	**16.9**	mg/kg dry	3.1	6010B	20000	1	SVD	05/20/09	1.85	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-004 8
Date Sampled: 05/18/09 12:00
Percent Solids: 86
Initial Volume: 5.2
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-11
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg dry	0.0056	24	1	05/20/09
1,1,1-Trichloroethane	ND	mg/kg dry	0.0056	500	1	05/20/09
1,1,2,2-Tetrachloroethane	ND	mg/kg dry	0.0056	3.1	1	05/20/09
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg dry	0.0056		1	05/20/09
1,1,2-Trichloroethane	ND	mg/kg dry	0.0056	11	1	05/20/09
1,1-Dichloroethane	ND	mg/kg dry	0.0056	500	1	05/20/09
1,1-Dichloroethene	ND	mg/kg dry	0.0056	1	1	05/20/09
1,1-Dichloropropene	ND	mg/kg dry	0.0056		1	05/20/09
1,2,3-Trichlorobenzene	ND	mg/kg dry	0.0056		1	05/20/09
1,2,3-Trichloropropane	ND	mg/kg dry	0.0056		1	05/20/09
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.0056	680	1	05/20/09
1,2,4-Trimethylbenzene	ND	mg/kg dry	0.0056	500	1	05/20/09
1,2-Dibromo-3-Chloropropane	ND	mg/kg dry	0.0056	0.44	1	05/20/09
1,2-Dibromoethane	ND	mg/kg dry	0.0056	0.007	1	05/20/09
1,2-Dichlorobenzene	ND	mg/kg dry	0.0056	500	1	05/20/09
1,2-Dichloroethane	ND	mg/kg dry	0.0056	6.7	1	05/20/09
1,2-Dichloropropane	ND	mg/kg dry	0.0056	9	1	05/20/09
1,3,5-Trimethylbenzene	ND	mg/kg dry	0.0056	500	1	05/20/09
1,3-Dichlorobenzene	ND	mg/kg dry	0.0056	500	1	05/20/09
1,3-Dichloropropane	ND	mg/kg dry	0.0056		1	05/20/09
1,4-Dichlorobenzene	ND	mg/kg dry	0.0056	26	1	05/20/09
1,4-Dioxane	ND	mg/kg dry	0.112	0.2	1	05/20/09
2,2-Dichloropropane	ND	mg/kg dry	0.0056		1	05/20/09
2-Butanone	ND	mg/kg dry	0.0559	500	1	05/20/09
2-Chlorotoluene	ND	mg/kg dry	0.0056	500	1	05/20/09
2-Hexanone	ND	mg/kg dry	0.0559		1	05/20/09
4-Chlorotoluene	ND	mg/kg dry	0.0056	500	1	05/20/09
4-Isopropyltoluene	ND	mg/kg dry	0.0056	500	1	05/20/09
4-Methyl-2-Pentanone	ND	mg/kg dry	0.0559	500	1	05/20/09
Acetone	ND	mg/kg dry	0.0559	500	1	05/20/09
Acrylonitrile	ND	mg/kg dry	0.0056	1.1	1	05/20/09
Benzene	ND	mg/kg dry	0.0056	21	1	05/20/09
Bromobenzene	ND	mg/kg dry	0.0056		1	05/20/09
Bromochloromethane	ND	mg/kg dry	0.0056		1	05/20/09
Bromodichloromethane	ND	mg/kg dry	0.0056	9.9	1	05/20/09

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-004 8
Date Sampled: 05/18/09 12:00
Percent Solids: 86
Initial Volume: 5.2
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-11
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromoform	ND	mg/kg dry	0.0056	78	1	05/20/09
Bromomethane	ND	mg/kg dry	0.0112	95	1	05/20/09
Carbon Disulfide	ND	mg/kg dry	0.0056	500	1	05/20/09
Carbon Tetrachloride	ND	mg/kg dry	0.0056	4.7	1	05/20/09
Chlorobenzene	ND	mg/kg dry	0.0056	500	1	05/20/09
Chloroethane	ND	mg/kg dry	0.0112		1	05/20/09
Chloroform	ND	mg/kg dry	0.0056	100	1	05/20/09
Chloromethane	ND	mg/kg dry	0.0112	47	1	05/20/09
cis-1,2-Dichloroethene	ND	mg/kg dry	0.0056	500	1	05/20/09
cis-1,3-Dichloropropene	ND	mg/kg dry	0.0056	3.4	1	05/20/09
Dibromochloromethane	ND	mg/kg dry	0.0056	7.3	1	05/20/09
Dibromomethane	ND	mg/kg dry	0.0056		1	05/20/09
Dichlorodifluoromethane	ND	mg/kg dry	0.0112		1	05/20/09
Diethyl Ether	ND	mg/kg dry	0.0056		1	05/20/09
Di-isopropyl ether	ND	mg/kg dry	0.0056		1	05/20/09
Ethyl tertiary-butyl ether	ND	mg/kg dry	0.0056		1	05/20/09
Ethylbenzene	ND	mg/kg dry	0.0056	500	1	05/20/09
Hexachlorobutadiene	ND	mg/kg dry	0.0056	7.9	1	05/20/09
Isopropylbenzene	ND	mg/kg dry	0.0056	500	1	05/20/09
Methyl tert-Butyl Ether	ND	mg/kg dry	0.0056	500	1	05/20/09
Methylene Chloride	ND	mg/kg dry	0.0280	82	1	05/20/09
Naphthalene	ND	mg/kg dry	0.0056	1000	1	05/20/09
n-Butylbenzene	ND	mg/kg dry	0.0056	500	1	05/20/09
n-Propylbenzene	ND	mg/kg dry	0.0056	500	1	05/20/09
sec-Butylbenzene	ND	mg/kg dry	0.0056	500	1	05/20/09
Styrene	ND	mg/kg dry	0.0056	500	1	05/20/09
tert-Butylbenzene	ND	mg/kg dry	0.0056	500	1	05/20/09
Tertiary-amyl methyl ether	ND	mg/kg dry	0.0056		1	05/20/09
Tetrachloroethene	ND	mg/kg dry	0.0056	12	1	05/20/09
Tetrahydrofuran	ND	mg/kg dry	0.0056		1	05/20/09
Toluene	ND	mg/kg dry	0.0056	500	1	05/20/09
trans-1,2-Dichloroethene	ND	mg/kg dry	0.0056	500	1	05/20/09
trans-1,3-Dichloropropene	ND	mg/kg dry	0.0056	3.4	1	05/20/09
Trans-1,4-Dichloro-2-Butene	ND	mg/kg dry	0.0056		1	05/20/09
Trichloroethene	ND	mg/kg dry	0.0056	56	1	05/20/09
Trichlorofluoromethane	ND	mg/kg dry	0.0056	500	1	05/20/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-004 8
Date Sampled: 05/18/09 12:00
Percent Solids: 86
Initial Volume: 5.2
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-11
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Vinyl Chloride	ND	mg/kg dry	0.0112	0.32	1	05/20/09
Xylene O	ND	mg/kg dry	0.0056	500	1	05/20/09
Xylene P,M	ND	mg/kg dry	0.0112	500	1	05/20/09
Xylenes (Total)	ND	mg/kg dry	0.0168	500	0	05/20/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*92 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*100 %*		*70-130*
Surrogate: Dibromofluoromethane	*90 %*		*70-130*
Surrogate: Toluene-d8	*106 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-004 8
Date Sampled: 05/18/09 12:00
Percent Solids: 86
Initial Volume: 15.3
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-11
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/19/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	15.2	474	10	05/20/09
Acenaphthene	ND	mg/kg dry	15.2	1000	10	05/20/09
Acenaphthylene	ND	mg/kg dry	15.2	1000	10	05/20/09
Anthracene	ND	mg/kg dry	15.2	1000	10	05/20/09
Benzo(a)anthracene	ND	mg/kg dry	15.2	1	10	05/20/09
Benzo(a)pyrene	ND	mg/kg dry	7.62	1	10	05/20/09
Benzo(b)fluoranthene	ND	mg/kg dry	15.2	1	10	05/20/09
Benzo(g,h,i)perylene	ND	mg/kg dry	15.2	1000	10	05/20/09
Benzo(k)fluoranthene	ND	mg/kg dry	15.2	8.4	10	05/20/09
Chrysene	ND	mg/kg dry	7.62	84	10	05/20/09
Dibenzo(a,h)Anthracene	ND	mg/kg dry	7.62	0.33	10	05/20/09
Fluoranthene	ND	mg/kg dry	15.2	1000	10	05/20/09
Fluorene	ND	mg/kg dry	15.2	1000	10	05/20/09
Indeno(1,2,3-cd)Pyrene	ND	mg/kg dry	15.2	1	10	05/20/09
Naphthalene	ND	mg/kg dry	15.2	1000	10	05/20/09
Phenanthrene	ND	mg/kg dry	15.2	1000	10	05/20/09
Pyrene	ND	mg/kg dry	15.2	1000	10	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*117 %*	*SD*	*30-130*
Surrogate: 2-Fluorobiphenyl	*%*	*SD*	*30-130*
Surrogate: Nitrobenzene-d5	*%*	*SD*	*30-130*
Surrogate: p-Terphenyl-d14	*104 %*	*SD*	*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-004 8
Date Sampled: 05/18/09 12:00
Percent Solids: 86
Initial Volume: 19.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-11
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	**17800**	mg/kg dry	239	500	10	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	%	SM	50-150

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-04 8
Date Sampled: 05/18/09 12:00
Percent Solids: 87

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-12
Sample Matrix: Soil

3050B/6000/7000 Total Metals

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.4	6010B	27	1	SVD	05/20/09	1.8	100
Arsenic	**6.2**	mg/kg dry	3.2	6010B	10	1	SVD	05/20/09	1.8	100
Beryllium	**0.20**	mg/kg dry	0.07	6010B	2	1	SVD	05/20/09	1.8	100
Cadmium	ND	mg/kg dry	0.64	6010B	34	1	SVD	05/20/09	1.8	100
Chromium	**13.7**	mg/kg dry	1.3	6010B	3900	1	SVD	05/20/09	1.8	100
Copper	**11.4**	mg/kg dry	1.3	6010B	2500	1	SVD	05/20/09	1.8	100
Lead	**12.5**	mg/kg dry	6.4	6010B	400	1	SVD	05/20/09	1.8	100
Mercury	ND	mg/kg dry	0.038	7471A	20	1	KAB	05/21/09	0.6	40
Nickel	**11.1**	mg/kg dry	3.2	6010B	1400	1	SVD	05/20/09	1.8	100
Selenium	ND	mg/kg dry	6.4	6010B	340	1	SVD	05/20/09	1.8	100
Silver	ND	mg/kg dry	0.64	6010B	340	1	SVD	05/20/09	1.8	100
Thallium	ND	mg/kg dry	1.58	7841	5.4	5	SVD	05/21/09	1.8	100
Zinc	**16.6**	mg/kg dry	3.2	6010B	20000	1	SVD	05/20/09	1.8	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-04 8
Date Sampled: 05/18/09 12:00
Percent Solids: 87
Initial Volume: 5.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-12
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg dry	0.0050	24	1	05/20/09
1,1,1-Trichloroethane	ND	mg/kg dry	0.0050	500	1	05/20/09
1,1,2,2-Tetrachloroethane	ND	mg/kg dry	0.0050	3.1	1	05/20/09
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg dry	0.0050		1	05/20/09
1,1,2-Trichloroethane	ND	mg/kg dry	0.0050	11	1	05/20/09
1,1-Dichloroethane	ND	mg/kg dry	0.0050	500	1	05/20/09
1,1-Dichloroethene	ND	mg/kg dry	0.0050	1	1	05/20/09
1,1-Dichloropropene	ND	mg/kg dry	0.0050		1	05/20/09
1,2,3-Trichlorobenzene	ND	mg/kg dry	0.0050		1	05/20/09
1,2,3-Trichloropropane	ND	mg/kg dry	0.0050		1	05/20/09
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.0050	680	1	05/20/09
1,2,4-Trimethylbenzene	ND	mg/kg dry	0.0050	500	1	05/20/09
1,2-Dibromo-3-Chloropropane	ND	mg/kg dry	0.0050	0.44	1	05/20/09
1,2-Dibromoethane	ND	mg/kg dry	0.0050	0.007	1	05/20/09
1,2-Dichlorobenzene	ND	mg/kg dry	0.0050	500	1	05/20/09
1,2-Dichloroethane	ND	mg/kg dry	0.0050	6.7	1	05/20/09
1,2-Dichloropropane	ND	mg/kg dry	0.0050	9	1	05/20/09
1,3,5-Trimethylbenzene	ND	mg/kg dry	0.0050	500	1	05/20/09
1,3-Dichlorobenzene	ND	mg/kg dry	0.0050	500	1	05/20/09
1,3-Dichloropropane	ND	mg/kg dry	0.0050		1	05/20/09
1,4-Dichlorobenzene	ND	mg/kg dry	0.0050	26	1	05/20/09
1,4-Dioxane	ND	mg/kg dry	0.0991	0.2	1	05/20/09
2,2-Dichloropropane	ND	mg/kg dry	0.0050		1	05/20/09
2-Butanone	ND	mg/kg dry	0.0495	500	1	05/20/09
2-Chlorotoluene	ND	mg/kg dry	0.0050	500	1	05/20/09
2-Hexanone	ND	mg/kg dry	0.0495		1	05/20/09
4-Chlorotoluene	ND	mg/kg dry	0.0050	500	1	05/20/09
4-Isopropyltoluene	ND	mg/kg dry	0.0050	500	1	05/20/09
4-Methyl-2-Pentanone	ND	mg/kg dry	0.0495	500	1	05/20/09
Acetone	ND	mg/kg dry	0.0495	500	1	05/20/09
Acrylonitrile	ND	mg/kg dry	0.0050	1.1	1	05/20/09
Benzene	ND	mg/kg dry	0.0050	21	1	05/20/09
Bromobenzene	ND	mg/kg dry	0.0050		1	05/20/09
Bromochloromethane	ND	mg/kg dry	0.0050		1	05/20/09
Bromodichloromethane	ND	mg/kg dry	0.0050	9.9	1	05/20/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-04 8
Date Sampled: 05/18/09 12:00
Percent Solids: 87
Initial Volume: 5.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-12
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromoform	ND	mg/kg dry	0.0050	78	1	05/20/09
Bromomethane	ND	mg/kg dry	0.0099	95	1	05/20/09
Carbon Disulfide	ND	mg/kg dry	0.0050	500	1	05/20/09
Carbon Tetrachloride	ND	mg/kg dry	0.0050	4.7	1	05/20/09
Chlorobenzene	ND	mg/kg dry	0.0050	500	1	05/20/09
Chloroethane	ND	mg/kg dry	0.0099		1	05/20/09
Chloroform	ND	mg/kg dry	0.0050	100	1	05/20/09
Chloromethane	ND	mg/kg dry	0.0099	47	1	05/20/09
cis-1,2-Dichloroethene	ND	mg/kg dry	0.0050	500	1	05/20/09
cis-1,3-Dichloropropene	ND	mg/kg dry	0.0050	3.4	1	05/20/09
Dibromochloromethane	ND	mg/kg dry	0.0050	7.3	1	05/20/09
Dibromomethane	ND	mg/kg dry	0.0050		1	05/20/09
Dichlorodifluoromethane	ND	mg/kg dry	0.0099		1	05/20/09
Diethyl Ether	ND	mg/kg dry	0.0050		1	05/20/09
Di-isopropyl ether	ND	mg/kg dry	0.0050		1	05/20/09
Ethyl tertiary-butyl ether	ND	mg/kg dry	0.0050		1	05/20/09
Ethylbenzene	ND	mg/kg dry	0.0050	500	1	05/20/09
Hexachlorobutadiene	ND	mg/kg dry	0.0050	7.9	1	05/20/09
Isopropylbenzene	ND	mg/kg dry	0.0050	500	1	05/20/09
Methyl tert-Butyl Ether	ND	mg/kg dry	0.0050	500	1	05/20/09
Methylene Chloride	ND	mg/kg dry	0.0248	82	1	05/20/09
Naphthalene	ND	mg/kg dry	0.0050	1000	1	05/20/09
n-Butylbenzene	ND	mg/kg dry	0.0050	500	1	05/20/09
n-Propylbenzene	ND	mg/kg dry	0.0050	500	1	05/20/09
sec-Butylbenzene	ND	mg/kg dry	0.0050	500	1	05/20/09
Styrene	ND	mg/kg dry	0.0050	500	1	05/20/09
tert-Butylbenzene	ND	mg/kg dry	0.0050	500	1	05/20/09
Tertiary-amyl methyl ether	ND	mg/kg dry	0.0050		1	05/20/09
Tetrachloroethene	ND	mg/kg dry	0.0050	12	1	05/20/09
Tetrahydrofuran	ND	mg/kg dry	0.0050		1	05/20/09
Toluene	ND	mg/kg dry	0.0050	500	1	05/20/09
trans-1,2-Dichloroethene	ND	mg/kg dry	0.0050	500	1	05/20/09
trans-1,3-Dichloropropene	ND	mg/kg dry	0.0050	3.4	1	05/20/09
Trans-1,4-Dichloro-2-Butene	ND	mg/kg dry	0.0050		1	05/20/09
Trichloroethene	ND	mg/kg dry	0.0050	56	1	05/20/09
Trichlorofluoromethane	ND	mg/kg dry	0.0050	500	1	05/20/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-04 8
Date Sampled: 05/18/09 12:00
Percent Solids: 87
Initial Volume: 5.8
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-12
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Vinyl Chloride	ND	mg/kg dry	0.0099	0.32	1	05/20/09
Xylene O	ND	mg/kg dry	0.0050	500	1	05/20/09
Xylene P,M	ND	mg/kg dry	0.0099	500	1	05/20/09
Xylenes (Total)	ND	mg/kg dry	0.0149	500	0	05/20/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*90 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*96 %*		*70-130*
Surrogate: Dibromofluoromethane	*93 %*		*70-130*
Surrogate: Toluene-d8	*112 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-04 8
Date Sampled: 05/18/09 12:00
Percent Solids: 87
Initial Volume: 15.2
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-12
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/19/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	15.1	474	10	05/20/09
Acenaphthene	ND	mg/kg dry	15.1	1000	10	05/20/09
Acenaphthylene	ND	mg/kg dry	15.1	1000	10	05/20/09
Anthracene	ND	mg/kg dry	15.1	1000	10	05/20/09
Benzo(a)anthracene	ND	mg/kg dry	15.1	1	10	05/20/09
Benzo(a)pyrene	ND	mg/kg dry	7.58	1	10	05/20/09
Benzo(b)fluoranthene	ND	mg/kg dry	15.1	1	10	05/20/09
Benzo(g,h,i)perylene	ND	mg/kg dry	15.1	1000	10	05/20/09
Benzo(k)fluoranthene	ND	mg/kg dry	15.1	8.4	10	05/20/09
Chrysene	ND	mg/kg dry	7.58	84	10	05/20/09
Dibenzo(a,h)Anthracene	ND	mg/kg dry	7.58	0.33	10	05/20/09
Fluoranthene	ND	mg/kg dry	15.1	1000	10	05/20/09
Fluorene	ND	mg/kg dry	15.1	1000	10	05/20/09
Indeno(1,2,3-cd)Pyrene	ND	mg/kg dry	15.1	1	10	05/20/09
Naphthalene	ND	mg/kg dry	15.1	1000	10	05/20/09
Phenanthrene	ND	mg/kg dry	15.1	1000	10	05/20/09
Pyrene	ND	mg/kg dry	15.1	1000	10	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	%	SD	30-130
Surrogate: 2-Fluorobiphenyl	%	SD	30-130
Surrogate: Nitrobenzene-d5	%	SD	30-130
Surrogate: p-Terphenyl-d14	%	SD	30-130

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-04 8
Date Sampled: 05/18/09 12:00
Percent Solids: 87
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-12
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	**4570**	mg/kg dry	225	500	10	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	%	SM	50-150

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-06 12
Date Sampled: 05/18/09 14:30
Percent Solids: 87
Initial Volume: 5.6
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-13
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg dry	0.323	24	1	05/20/09
1,1,1-Trichloroethane	ND	mg/kg dry	0.161	500	1	05/20/09
1,1,2,2-Tetrachloroethane	ND	mg/kg dry	0.161	3.1	1	05/20/09
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg dry	0.161		1	05/20/09
1,1,2-Trichloroethane	ND	mg/kg dry	0.161	11	1	05/20/09
1,1-Dichloroethane	ND	mg/kg dry	0.161	500	1	05/20/09
1,1-Dichloroethene	ND	mg/kg dry	0.161	1	1	05/20/09
1,1-Dichloropropene	ND	mg/kg dry	0.161		1	05/20/09
1,2,3-Trichlorobenzene	ND	mg/kg dry	0.161		1	05/20/09
1,2,3-Trichloropropane	ND	mg/kg dry	0.161		1	05/20/09
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.161	680	1	05/20/09
1,2,4-Trimethylbenzene	**0.274**	mg/kg dry	0.161	500	1	05/20/09
1,2-Dibromo-3-Chloropropane	ND	mg/kg dry	0.968	0.44	1	05/20/09
1,2-Dibromoethane	ND	mg/kg dry	0.161	0.007	1	05/20/09
1,2-Dichlorobenzene	**0.210**	mg/kg dry	0.161	500	1	05/20/09
1,2-Dichloroethane	ND	mg/kg dry	0.161	6.7	1	05/20/09
1,2-Dichloropropane	ND	mg/kg dry	0.161	9	1	05/20/09
1,3,5-Trimethylbenzene	ND	mg/kg dry	0.161	500	1	05/20/09
1,3-Dichlorobenzene	ND	mg/kg dry	0.161	500	1	05/20/09
1,3-Dichloropropane	ND	mg/kg dry	0.161		1	05/20/09
1,4-Dichlorobenzene	**0.591**	mg/kg dry	0.161	26	1	05/20/09
1,4-Dioxane - Screen	ND	mg/kg dry	16.1		1	05/20/09
2,2-Dichloropropane	ND	mg/kg dry	0.323		1	05/20/09
2-Butanone	ND	mg/kg dry	4.04	500	1	05/20/09
2-Chlorotoluene	ND	mg/kg dry	0.161	500	1	05/20/09
2-Hexanone	ND	mg/kg dry	1.61		1	05/20/09
4-Chlorotoluene	ND	mg/kg dry	0.161	500	1	05/20/09
4-Isopropyltoluene	**0.907**	mg/kg dry	0.161	500	1	05/20/09
4-Methyl-2-Pentanone	ND	mg/kg dry	1.61	500	1	05/20/09
Acetone	ND	mg/kg dry	4.04	500	1	05/20/09
Acrylonitrile	ND	mg/kg dry	1.29	1.1	1	05/20/09
Benzene	ND	mg/kg dry	0.161	21	1	05/20/09
Bromobenzene	ND	mg/kg dry	0.161		1	05/20/09
Bromochloromethane	ND	mg/kg dry	0.161		1	05/20/09
Bromodichloromethane	ND	mg/kg dry	0.161	9.9	1	05/20/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-06 12
Date Sampled: 05/18/09 14:30
Percent Solids: 87
Initial Volume: 5.6
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-13
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Bromoform	ND	mg/kg dry	0.161	78	1	05/20/09
Bromomethane	ND	mg/kg dry	0.323	95	1	05/20/09
Carbon Disulfide	ND	mg/kg dry	0.161	500	1	05/20/09
Carbon Tetrachloride	ND	mg/kg dry	0.161	4.7	1	05/20/09
Chlorobenzene	**0.839**	mg/kg dry	0.161	500	1	05/20/09
Chloroethane	ND	mg/kg dry	0.323		1	05/20/09
Chloroform	ND	mg/kg dry	0.161	100	1	05/20/09
Chloromethane	ND	mg/kg dry	0.323	47	1	05/20/09
cis-1,2-Dichloroethene	ND	mg/kg dry	0.161	500	1	05/20/09
cis-1,3-Dichloropropene	ND	mg/kg dry	0.161	3.4	1	05/20/09
Dibromochloromethane	ND	mg/kg dry	0.161	7.3	1	05/20/09
Dibromomethane	ND	mg/kg dry	0.161		1	05/20/09
Dichlorodifluoromethane	ND	mg/kg dry	0.161		1	05/20/09
Diethyl Ether	ND	mg/kg dry	0.161		1	05/20/09
Di-isopropyl ether	ND	mg/kg dry	0.161		1	05/20/09
Ethyl tertiary-butyl ether	ND	mg/kg dry	0.161		1	05/20/09
Ethylbenzene	**2.27**	mg/kg dry	0.161	500	1	05/20/09
Hexachlorobutadiene	ND	mg/kg dry	0.161	7.9	1	05/20/09
Isopropylbenzene	**1.13**	mg/kg dry	0.161	500	1	05/20/09
Methyl tert-Butyl Ether	ND	mg/kg dry	0.161	500	1	05/20/09
Methylene Chloride	ND	mg/kg dry	0.807	82	1	05/20/09
Naphthalene	**30.3**	mg/kg dry	0.161	1000	1	05/20/09
n-Butylbenzene	**2.81**	mg/kg dry	0.161	500	1	05/20/09
n-Propylbenzene	**2.00**	mg/kg dry	0.161	500	1	05/20/09
sec-Butylbenzene	**1.34**	mg/kg dry	0.161	500	1	05/20/09
Styrene	ND	mg/kg dry	0.161	500	1	05/20/09
tert-Butylbenzene	ND	mg/kg dry	0.161	500	1	05/20/09
Tertiary-amyl methyl ether	ND	mg/kg dry	0.161		1	05/20/09
Tetrachloroethene	ND	mg/kg dry	0.161	12	1	05/20/09
Tetrahydrofuran	ND	mg/kg dry	1.61		1	05/20/09
Toluene	ND	mg/kg dry	0.161	500	1	05/20/09
trans-1,2-Dichloroethene	ND	mg/kg dry	0.161	500	1	05/20/09
trans-1,3-Dichloropropene	ND	mg/kg dry	0.161	3.4	1	05/20/09
Trans-1,4-Dichloro-2-Butene	ND	mg/kg dry	1.61		1	05/20/09
Trichloroethene	ND	mg/kg dry	0.161	56	1	05/20/09
Trichlorofluoromethane	ND	mg/kg dry	0.161	500	1	05/20/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-06 12
Date Sampled: 05/18/09 14:30
Percent Solids: 87
Initial Volume: 5.6
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-13
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Vinyl Chloride	ND	mg/kg dry	0.161	0.32	1	05/20/09
Xylene O	**0.345**	mg/kg dry	0.161	500	1	05/20/09
Xylene P,M	ND	mg/kg dry	0.323	500	1	05/20/09
Xylenes (Total)	ND	mg/kg dry	0.484	500	1	05/20/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*84 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*82 %*		*70-130*
Surrogate: Dibromofluoromethane	*93 %*		*70-130*
Surrogate: Toluene-d8	*91 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-06 12
Date Sampled: 05/18/09 14:30
Percent Solids: 87
Initial Volume: 21
Final Volume: 3
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-13
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	**22000**	mg/kg dry	657	500	10	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	%	SD	50-150

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-06 6
Date Sampled: 05/18/09 14:30
Percent Solids: 90

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-14
Sample Matrix: Soil

3050B/6000/7000 Total Metals

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.1	6010B	27	1	SVD	05/19/09	1.83	100
Arsenic	**4.8**	mg/kg dry	3.0	6010B	10	1	SVD	05/19/09	1.83	100
Beryllium	**0.20**	mg/kg dry	0.06	6010B	2	1	SVD	05/19/09	1.83	100
Cadmium	ND	mg/kg dry	0.61	6010B	34	1	SVD	05/19/09	1.83	100
Chromium	**12.3**	mg/kg dry	1.2	6010B	3900	1	SVD	05/19/09	1.83	100
Copper	**9.9**	mg/kg dry	1.2	6010B	2500	1	SVD	05/19/09	1.83	100
Lead	**13.7**	mg/kg dry	6.1	6010B	400	1	SVD	05/19/09	1.83	100
Mercury	**0.036**	mg/kg dry	0.035	7471A	20	1	KAB	05/21/09	0.62	40
Nickel	**10.2**	mg/kg dry	3.0	6010B	1400	1	SVD	05/19/09	1.83	100
Selenium	ND	mg/kg dry	6.1	6010B	340	1	SVD	05/19/09	1.83	100
Silver	ND	mg/kg dry	0.61	6010B	340	1	SVD	05/19/09	1.83	100
Thallium	ND	mg/kg dry	1.50	7841	5.4	5	SVD	05/21/09	1.83	100
Zinc	**16.2**	mg/kg dry	3.0	6010B	20000	1	SVD	05/19/09	1.83	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-06 6
Date Sampled: 05/18/09 14:30
Percent Solids: 90
Initial Volume: 14.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0905219
ESS Laboratory Sample ID: 0905219-14
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/19/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	0.388	474	1	05/19/09
Acenaphthene	ND	mg/kg dry	0.388	1000	1	05/19/09
Acenaphthylene	ND	mg/kg dry	0.388	1000	1	05/19/09
Anthracene	ND	mg/kg dry	0.388	1000	1	05/19/09
Benzo(a)anthracene	ND	mg/kg dry	0.388	1	1	05/19/09
Benzo(a)pyrene	ND	mg/kg dry	0.195	1	1	05/19/09
Benzo(b)fluoranthene	ND	mg/kg dry	0.388	1	1	05/19/09
Benzo(g,h,i)perylene	ND	mg/kg dry	0.388	1000	1	05/19/09
Benzo(k)fluoranthene	ND	mg/kg dry	0.388	8.4	1	05/19/09
Chrysene	ND	mg/kg dry	0.195	84	1	05/19/09
Dibenzo(a,h)Anthracene	ND	mg/kg dry	0.195	0.33	1	05/19/09
Fluoranthene	ND	mg/kg dry	0.388	1000	1	05/19/09
Fluorene	ND	mg/kg dry	0.388	1000	1	05/19/09
Indeno(1,2,3-cd)Pyrene	ND	mg/kg dry	0.388	1	1	05/19/09
Naphthalene	ND	mg/kg dry	0.388	1000	1	05/19/09
Phenanthrene	ND	mg/kg dry	0.388	1000	1	05/19/09
Pyrene	ND	mg/kg dry	0.388	1000	1	05/19/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*64 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*78 %*		*30-130*
Surrogate: Nitrobenzene-d5	*70 %*		*30-130*
Surrogate: p-Terphenyl-d14	*93 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905219

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch BE91918 - 3050B										
Blank										
Antimony	ND	6.7	mg/kg wet							
Arsenic	ND	3.3	mg/kg wet							
Beryllium	ND	0.07	mg/kg wet							
Cadmium	ND	0.67	mg/kg wet							
Chromium	ND	1.3	mg/kg wet							
Copper	ND	1.3	mg/kg wet							
Lead	ND	6.7	mg/kg wet							
Nickel	ND	3.3	mg/kg wet							
Selenium	ND	6.7	mg/kg wet							
Silver	ND	0.67	mg/kg wet							
Thallium	ND	0.33	mg/kg wet							
Zinc	ND	3.3	mg/kg wet							
LCS										
Antimony	31.7	6.7	mg/kg wet	33.33		95	80-120			
Arsenic	32.7	3.3	mg/kg wet	33.33		98	80-120			
Beryllium	3.20	0.07	mg/kg wet	3.333		96	80-120			
Cadmium	15.2	0.67	mg/kg wet	16.67		91	80-120			
Chromium	32.3	1.3	mg/kg wet	33.33		97	80-120			
Copper	33.2	1.3	mg/kg wet	33.33		100	80-120			
Lead	31.9	6.7	mg/kg wet	33.33		96	80-120			
Nickel	32.3	3.3	mg/kg wet	33.33		97	80-120			
Selenium	61.4	6.7	mg/kg wet	66.67		92	80-120			
Silver	16.4	0.67	mg/kg wet	16.67		98	80-120			
Thallium	35.0	6.60	mg/kg wet	33.33		105	80-120			
Zinc	31.7	3.3	mg/kg wet	33.33		95	80-120			
LCS Dup										
Antimony	31.2	6.7	mg/kg wet	33.33		94	80-120	2	20	
Arsenic	32.7	3.3	mg/kg wet	33.33		98	80-120	0.005	20	
Beryllium	3.16	0.07	mg/kg wet	3.333		95	80-120	1	20	
Cadmium	15.0	0.67	mg/kg wet	16.67		90	80-120	1	20	
Chromium	32.0	1.3	mg/kg wet	33.33		96	80-120	0.9	20	
Copper	32.6	1.3	mg/kg wet	33.33		98	80-120	2	20	
Lead	31.4	6.7	mg/kg wet	33.33		94	80-120	1	20	
Nickel	31.9	3.3	mg/kg wet	33.33		96	80-120	1	20	
Selenium	60.7	6.7	mg/kg wet	66.67		91	80-120	1	20	
Silver	16.3	0.67	mg/kg wet	16.67		98	80-120	1	20	
Thallium	34.1	6.60	mg/kg wet	33.33		102	80-120	3	20	
Zinc	31.4	3.3	mg/kg wet	33.33		94	80-120	0.9	20	
Reference										
Antimony	78.1	10.0	mg/kg wet	127.0		62	0-210			
Arsenic	272	5.0	mg/kg wet	280.0		97	81-119			
Beryllium	48.9	0.10	mg/kg wet	51.00		96	83-117			
Cadmium	164	1.00	mg/kg wet	182.0		90	82-118			
Chromium	130	2.0	mg/kg wet	142.0		92	81-120			

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905219

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch BE91918 - 3050B										
Copper	129	2.0	mg/kg wet	132.0		98	83-117			
Lead	67.9	10.0	mg/kg wet	72.20		94	82-118			
Nickel	149	5.0	mg/kg wet	155.0		96	82-117			
Selenium	153	10.0	mg/kg wet	165.0		93	78-123			
Silver	127	1.00	mg/kg wet	126.0		101	66-134			
Thallium	216	24.8	mg/kg wet	184.0		118	77-122			
Zinc	309	5.0	mg/kg wet	346.0		89	79-121			
Batch BE91919 - 3050B										
Blank										
Antimony	ND	6.7	mg/kg wet							
Arsenic	ND	3.3	mg/kg wet							
Beryllium	ND	0.07	mg/kg wet							
Cadmium	ND	0.67	mg/kg wet							
Chromium	ND	1.3	mg/kg wet							
Copper	ND	1.3	mg/kg wet							
Lead	ND	6.7	mg/kg wet							
Nickel	ND	3.3	mg/kg wet							
Selenium	ND	6.7	mg/kg wet							
Silver	ND	0.67	mg/kg wet							
Thallium	ND	0.33	mg/kg wet							
Zinc	ND	3.3	mg/kg wet							
LCS										
Antimony	31.8	6.7	mg/kg wet	33.33		95	80-120			
Arsenic	33.0	3.3	mg/kg wet	33.33		99	80-120			
Beryllium	3.20	0.07	mg/kg wet	3.333		96	80-120			
Cadmium	15.2	0.67	mg/kg wet	16.67		91	80-120			
Chromium	32.3	1.3	mg/kg wet	33.33		97	80-120			
Copper	32.9	1.3	mg/kg wet	33.33		99	80-120			
Lead	32.1	6.7	mg/kg wet	33.33		96	80-120			
Nickel	32.4	3.3	mg/kg wet	33.33		97	80-120			
Selenium	61.4	6.7	mg/kg wet	66.67		92	80-120			
Silver	16.2	0.67	mg/kg wet	16.67		97	80-120			
Thallium	33.4	6.60	mg/kg wet	33.33		100	80-120			
Zinc	31.6	3.3	mg/kg wet	33.33		95	80-120			
LCS Dup										
Antimony	31.5	6.7	mg/kg wet	33.33		94	80-120	1	20	
Arsenic	32.2	3.3	mg/kg wet	33.33		97	80-120	2	20	
Beryllium	3.17	0.07	mg/kg wet	3.333		95	80-120	0.9	20	
Cadmium	15.1	0.67	mg/kg wet	16.67		90	80-120	1	20	
Chromium	32.0	1.3	mg/kg wet	33.33		96	80-120	1	20	
Copper	32.5	1.3	mg/kg wet	33.33		98	80-120	1	20	
Lead	31.8	6.7	mg/kg wet	33.33		95	80-120	1	20	
Nickel	32.1	3.3	mg/kg wet	33.33		96	80-120	0.9	20	
Selenium	60.2	6.7	mg/kg wet	66.67		90	80-120	2	20	
Silver	16.1	0.67	mg/kg wet	16.67		96	80-120	1	20	

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905219

Quality Control Data

3050B/6000/7000 Total Metals

Analyte		Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BE91919 - 3050B											
Thallium		33.6	6.60	mg/kg wet	33.33		101	80-120	0.8	20	
Zinc		31.3	3.3	mg/kg wet	33.33		94	80-120	0.8	20	
Duplicate	**Source: 0905219-10**										
Antimony		ND	6.7	mg/kg dry		ND				35	
Arsenic		5.29	3.3	mg/kg dry		5.54			5	35	
Beryllium		0.207	0.07	mg/kg dry		0.215			4	35	
Cadmium		0.243	0.67	mg/kg dry		0.237			3	35	
Chromium		19.3	1.3	mg/kg dry		19.0			1	35	
Copper		8.75	1.3	mg/kg dry		8.99			3	35	
Lead		2.73	6.7	mg/kg dry		2.82			3	35	
Nickel		13.7	3.3	mg/kg dry		14.0			2	35	
Selenium		ND	6.7	mg/kg dry		1.92			200	35	
Silver		ND	0.67	mg/kg dry		ND				35	
Thallium		ND	1.65	mg/kg dry		ND				35	
Zinc		18.4	3.3	mg/kg dry		12.4			39	35	D+
Matrix Spike	**Source: 0905219-10**										
Antimony		14.2	6.6	mg/kg dry	32.86	ND	43	75-125			M-
Arsenic		33.1	3.3	mg/kg dry	32.86	5.54	84	75-125			
Beryllium		3.01	0.07	mg/kg dry	3.286	0.215	85	75-125			
Cadmium		13.2	0.66	mg/kg dry	16.43	0.237	79	75-125			
Chromium		46.5	1.3	mg/kg dry	32.86	19.0	84	75-125			
Copper		37.4	1.3	mg/kg dry	32.86	8.99	86	75-125			
Lead		30.1	6.6	mg/kg dry	32.86	2.82	83	75-125			
Nickel		41.5	3.3	mg/kg dry	32.86	14.0	83	75-125			
Selenium		55.5	6.6	mg/kg dry	65.72	1.92	82	75-125			
Silver		13.9	0.66	mg/kg dry	16.43	ND	85	75-125			
Thallium		29.6	6.51	mg/kg dry	32.86	ND	90	75-125			
Zinc		38.7	3.3	mg/kg dry	32.86	12.4	80	75-125			
Reference											
Antimony		78.6	10.0	mg/kg wet	127.0		62	0-210			
Arsenic		259	5.0	mg/kg wet	280.0		92	81-119			
Beryllium		46.8	0.10	mg/kg wet	51.00		92	83-117			
Cadmium		157	1.00	mg/kg wet	182.0		86	82-118			
Chromium		124	2.0	mg/kg wet	142.0		88	81-120			
Copper		120	2.0	mg/kg wet	132.0		91	83-117			
Lead		65.7	10.0	mg/kg wet	72.20		91	82-118			
Nickel		142	5.0	mg/kg wet	155.0		92	82-117			
Selenium		147	10.0	mg/kg wet	165.0		89	78-123			
Silver		120	1.00	mg/kg wet	126.0		95	66-134			
Thallium		194	24.8	mg/kg wet	184.0		105	77-122			
Zinc		295	5.0	mg/kg wet	346.0		85	79-121			
Batch BE92015 - 7471A											
Blank											
Mercury		ND	0.033	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905219

Quality Control Data

Analyte		Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals											
Batch BE92015 - 7471A											
LCS											
Mercury		0.225	0.033	mg/kg wet	0.2000		112	80-120			
LCS Dup											
Mercury		0.217	0.033	mg/kg wet	0.2000		109	80-120	3	20	
Duplicate	**Source: 0905219-10**										
Mercury		0.0056	0.039	mg/kg dry		ND				35	
Matrix Spike	**Source: 0905219-10**										
Mercury		0.256	0.039	mg/kg dry	0.2353	ND	109	75-125			
Matrix Spike Dup	**Source: 0905219-10**										
Mercury		0.252	0.038	mg/kg dry	0.2277	ND	111	75-125	1	35	
Reference											
Mercury		8.17	0.660	mg/kg wet	8.480		96	66-132			
5035/8260B Volatile Organic Compounds / Low Level											
Batch BE91910 - 5035											
Blank											
1,1,1,2-Tetrachloroethane		ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane		ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane		ND	0.0050	mg/kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	0.0050	mg/kg wet							
1,1,2-Trichloroethane		ND	0.0050	mg/kg wet							
1,1-Dichloroethane		ND	0.0050	mg/kg wet							
1,1-Dichloroethene		ND	0.0050	mg/kg wet							
1,1-Dichloropropene		ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene		ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane		ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene		ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene		ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane		ND	0.0050	mg/kg wet							
1,2-Dibromoethane		ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene		ND	0.0050	mg/kg wet							
1,2-Dichloroethane		ND	0.0050	mg/kg wet							
1,2-Dichloropropane		ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene		ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene		ND	0.0050	mg/kg wet							
1,3-Dichloropropane		ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene		ND	0.0050	mg/kg wet							
1,4-Dioxane		ND	0.100	mg/kg wet							
2,2-Dichloropropane		ND	0.0050	mg/kg wet							
2-Butanone		ND	0.0500	mg/kg wet							
2-Chlorotoluene		ND	0.0050	mg/kg wet							
2-Hexanone		ND	0.0500	mg/kg wet							
4-Chlorotoluene		ND	0.0050	mg/kg wet							
4-Isopropyltoluene		ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905219

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BE91910 - 5035										
4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet							
Acetone	ND	0.0500	mg/kg wet							
Acrylonitrile	ND	0.0050	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0050	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0250	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trans-1,4-Dichloro-2-Butene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905219

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BE91910 - 5035										
Surrogate: 1,2-Dichloroethane-d4	*0.0550*		mg/kg wet	*0.05000*		*110*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0476*		mg/kg wet	*0.05000*		*95*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0519*		mg/kg wet	*0.05000*		*104*	*70-130*			
Surrogate: Toluene-d8	*0.0505*		mg/kg wet	*0.05000*		*101*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
1,1,1-Trichloroethane	0.0462	0.0050	mg/kg wet	0.05000		92	70-130			
1,1,2,2-Tetrachloroethane	0.0441	0.0050	mg/kg wet	0.05000		88	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0485	0.0050	mg/kg wet	0.05000		97	70-130			
1,1,2-Trichloroethane	0.0493	0.0050	mg/kg wet	0.05000		99	70-130			
1,1-Dichloroethane	0.0463	0.0050	mg/kg wet	0.05000		93	70-130			
1,1-Dichloroethene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130			
1,1-Dichloropropene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
1,2,3-Trichlorobenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130			
1,2,3-Trichloropropane	0.0437	0.0050	mg/kg wet	0.05000		87	70-130			
1,2,4-Trichlorobenzene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
1,2,4-Trimethylbenzene	0.0458	0.0050	mg/kg wet	0.05000		92	70-130			
1,2-Dibromo-3-Chloropropane	0.0449	0.0050	mg/kg wet	0.05000		90	70-130			
1,2-Dibromoethane	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
1,2-Dichlorobenzene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130			
1,2-Dichloroethane	0.0497	0.0050	mg/kg wet	0.05000		99	70-130			
1,2-Dichloropropane	0.0448	0.0050	mg/kg wet	0.05000		90	70-130			
1,3,5-Trimethylbenzene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			
1,3-Dichlorobenzene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
1,3-Dichloropropane	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
1,4-Dichlorobenzene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130			
1,4-Dioxane	1.01	0.100	mg/kg wet	1.000		101	70-130			
2,2-Dichloropropane	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
2-Butanone	0.247	0.0500	mg/kg wet	0.2500		99	70-130			
2-Chlorotoluene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
2-Hexanone	0.244	0.0500	mg/kg wet	0.2500		97	70-130			
4-Chlorotoluene	0.0448	0.0050	mg/kg wet	0.05000		90	70-130			
4-Isopropyltoluene	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
4-Methyl-2-Pentanone	0.228	0.0500	mg/kg wet	0.2500		91	70-130			
Acetone	0.199	0.0500	mg/kg wet	0.2500		79	70-130			
Acrylonitrile	0.0416	0.0050	mg/kg wet	0.05000		83	70-130			
Benzene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
Bromobenzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
Bromochloromethane	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
Bromodichloromethane	0.0517	0.0050	mg/kg wet	0.05000		103	70-130			
Bromoform	0.0541	0.0050	mg/kg wet	0.05000		108	70-130			
Bromomethane	0.0530	0.0100	mg/kg wet	0.05000		106	70-130			
Carbon Disulfide	0.0485	0.0050	mg/kg wet	0.05000		97	70-130			
Carbon Tetrachloride	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
Chlorobenzene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905219

Quality Control Data

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BE91910 - 5035										
Chloroethane	0.0508	0.0100	mg/kg wet	0.05000		102	70-130			
Chloroform	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
Chloromethane	0.0455	0.0100	mg/kg wet	0.05000		91	70-130			
cis-1,2-Dichloroethene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
cis-1,3-Dichloropropene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
Dibromochloromethane	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
Dibromomethane	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
Dichlorodifluoromethane	0.0438	0.0100	mg/kg wet	0.05000		88	70-130			
Diethyl Ether	0.0443	0.0050	mg/kg wet	0.05000		89	70-130			
Di-isopropyl ether	0.0444	0.0050	mg/kg wet	0.05000		89	70-130			
Ethyl tertiary-butyl ether	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
Ethylbenzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
Hexachlorobutadiene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
Isopropylbenzene	0.0404	0.0050	mg/kg wet	0.05000		81	70-130			
Methyl tert-Butyl Ether	0.0497	0.0050	mg/kg wet	0.05000		99	70-130			
Methylene Chloride	0.0481	0.0250	mg/kg wet	0.05000		96	70-130			
Naphthalene	0.0460	0.0050	mg/kg wet	0.05000		92	70-130			
n-Butylbenzene	0.0451	0.0050	mg/kg wet	0.05000		90	70-130			
n-Propylbenzene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130			
sec-Butylbenzene	0.0458	0.0050	mg/kg wet	0.05000		92	70-130			
Styrene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
tert-Butylbenzene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			
Tertiary-amyl methyl ether	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
Tetrachloroethene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			
Tetrahydrofuran	0.0437	0.0050	mg/kg wet	0.05000		87	70-130			
Toluene	0.0449	0.0050	mg/kg wet	0.05000		90	70-130			
trans-1,2-Dichloroethene	0.0504	0.0050	mg/kg wet	0.05000		101	70-130			
trans-1,3-Dichloropropene	0.0454	0.0050	mg/kg wet	0.05000		91	70-130			
Trans-1,4-Dichloro-2-Butene	0.0393	0.0050	mg/kg wet	0.05000		79	70-130			
Trichloroethene	0.0461	0.0050	mg/kg wet	0.05000		92	70-130			
Trichlorofluoromethane	0.0455	0.0050	mg/kg wet	0.05000		91	70-130			
Vinyl Chloride	0.0506	0.0100	mg/kg wet	0.05000		101	70-130			
Xylene O	0.0490	0.0050	mg/kg wet	0.05000		98	70-130			
Xylene P,M	0.0914	0.0100	mg/kg wet	0.1000		91	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0490*		mg/kg wet	*0.05000*		*98*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0509*		mg/kg wet	*0.05000*		*102*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0477*		mg/kg wet	*0.05000*		*95*	*70-130*			
Surrogate: Toluene-d8	*0.0480*		mg/kg wet	*0.05000*		*96*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0519	0.0050	mg/kg wet	0.05000		104	70-130	3	25	
1,1,1-Trichloroethane	0.0474	0.0050	mg/kg wet	0.05000		95	70-130	3	25	
1,1,2,2-Tetrachloroethane	0.0442	0.0050	mg/kg wet	0.05000		88	70-130	0.4	25	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0478	0.0050	mg/kg wet	0.05000		96	70-130	2	25	
1,1,2-Trichloroethane	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	2	25	
1,1-Dichloroethane	0.0470	0.0050	mg/kg wet	0.05000		94	70-130	2	25	
1,1-Dichloroethene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130	0.9	25	

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905219

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BE91910 - 5035										
1,1-Dichloropropene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130	4	25	
1,2,3-Trichlorobenzene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	6	25	
1,2,3-Trichloropropane	0.0436	0.0050	mg/kg wet	0.05000		87	70-130	0.2	25	
1,2,4-Trichlorobenzene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130	4	25	
1,2,4-Trimethylbenzene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130	5	25	
1,2-Dibromo-3-Chloropropane	0.0458	0.0050	mg/kg wet	0.05000		92	70-130	2	25	
1,2-Dibromoethane	0.0509	0.0050	mg/kg wet	0.05000		102	70-130	7	25	
1,2-Dichlorobenzene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	5	25	
1,2-Dichloroethane	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	2	25	
1,2-Dichloropropane	0.0480	0.0050	mg/kg wet	0.05000		96	70-130	7	25	
1,3,5-Trimethylbenzene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	4	25	
1,3-Dichlorobenzene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	8	25	
1,3-Dichloropropane	0.0514	0.0050	mg/kg wet	0.05000		103	70-130	6	25	
1,4-Dichlorobenzene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130	4	25	
1,4-Dioxane	1.08	0.100	mg/kg wet	1.000		108	70-130	6	20	
2,2-Dichloropropane	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	0.5	25	
2-Butanone	0.247	0.0500	mg/kg wet	0.2500		99	70-130	0.06	25	
2-Chlorotoluene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130	4	25	
2-Hexanone	0.244	0.0500	mg/kg wet	0.2500		98	70-130	0.4	25	
4-Chlorotoluene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130	3	25	
4-Isopropyltoluene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130	4	25	
4-Methyl-2-Pentanone	0.237	0.0500	mg/kg wet	0.2500		95	70-130	4	25	
Acetone	0.195	0.0500	mg/kg wet	0.2500		78	70-130	2	25	
Acrylonitrile	0.0461	0.0050	mg/kg wet	0.05000		92	70-130	10	25	
Benzene	0.0470	0.0050	mg/kg wet	0.05000		94	70-130	5	25	
Bromobenzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	2	25	
Bromochloromethane	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	2	25	
Bromodichloromethane	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	1	25	
Bromoform	0.0552	0.0050	mg/kg wet	0.05000		110	70-130	2	25	
Bromomethane	0.0518	0.0100	mg/kg wet	0.05000		104	70-130	2	25	
Carbon Disulfide	0.0511	0.0050	mg/kg wet	0.05000		102	70-130	5	25	
Carbon Tetrachloride	0.0513	0.0050	mg/kg wet	0.05000		103	70-130	2	25	
Chlorobenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	2	25	
Chloroethane	0.0504	0.0100	mg/kg wet	0.05000		101	70-130	0.8	25	
Chloroform	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	1	25	
Chloromethane	0.0453	0.0100	mg/kg wet	0.05000		91	70-130	0.6	25	
cis-1,2-Dichloroethene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	3	25	
cis-1,3-Dichloropropene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130	7	25	
Dibromochloromethane	0.0528	0.0050	mg/kg wet	0.05000		106	70-130	5	25	
Dibromomethane	0.0496	0.0050	mg/kg wet	0.05000		99	70-130	4	25	
Dichlorodifluoromethane	0.0452	0.0100	mg/kg wet	0.05000		90	70-130	3	25	
Diethyl Ether	0.0365	0.0050	mg/kg wet	0.05000		73	70-130	19	25	
Di-isopropyl ether	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	6	25	
Ethyl tertiary-butyl ether	0.0458	0.0050	mg/kg wet	0.05000		92	70-130	3	25	
Ethylbenzene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	2	25	
Hexachlorobutadiene	0.0518	0.0050	mg/kg wet	0.05000		104	70-130	8	25	

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905219

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BE91910 - 5035										
Isopropylbenzene	0.0409	0.0050	mg/kg wet	0.05000		82	70-130	1	25	
Methyl tert-Butyl Ether	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	0.5	25	
Methylene Chloride	0.0493	0.0250	mg/kg wet	0.05000		99	70-130	2	25	
Naphthalene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	5	25	
n-Butylbenzene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	5	25	
n-Propylbenzene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	6	25	
sec-Butylbenzene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130	4	25	
Styrene	0.0492	0.0050	mg/kg wet	0.05000		98	70-130	4	25	
tert-Butylbenzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	3	25	
Tertiary-amyl methyl ether	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	4	25	
Tetrachloroethene	0.0516	0.0050	mg/kg wet	0.05000		103	70-130	5	25	
Tetrahydrofuran	0.0436	0.0050	mg/kg wet	0.05000		87	70-130	0.3	25	
Toluene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130	8	25	
trans-1,2-Dichloroethene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	1	25	
trans-1,3-Dichloropropene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130	3	25	
Trans-1,4-Dichloro-2-Butene	0.0404	0.0050	mg/kg wet	0.05000		81	70-130	3	25	
Trichloroethene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130	7	25	
Trichlorofluoromethane	0.0440	0.0050	mg/kg wet	0.05000		88	70-130	3	25	
Vinyl Chloride	0.0494	0.0100	mg/kg wet	0.05000		99	70-130	2	25	
Xylene O	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	0.2	25	
Xylene P,M	0.0954	0.0100	mg/kg wet	0.1000		95	70-130	4	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0505*		mg/kg wet	*0.05000*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0504*		mg/kg wet	*0.05000*		*101*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0467*		mg/kg wet	*0.05000*		*93*	*70-130*			
Surrogate: Toluene-d8	*0.0492*		mg/kg wet	*0.05000*		*98*	*70-130*			
Batch BE92009 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.0050	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905219

Quality Control Data

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BE92009 - 5035										
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0500	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0500	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet							
Acetone	ND	0.0500	mg/kg wet							
Acrylonitrile	ND	0.0050	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0050	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0250	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905219

Quality Control Data

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BE92009 - 5035										
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trans-1,4-Dichloro-2-Butene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0587*		mg/kg wet	*0.05000*		*117*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0498*		mg/kg wet	*0.05000*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0543*		mg/kg wet	*0.05000*		*109*	*70-130*			
Surrogate: Toluene-d8	*0.0500*		mg/kg wet	*0.05000*		*100*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	0.0555	0.0050	mg/kg wet	0.05000		111	70-130			
1,1,1-Trichloroethane	0.0518	0.0050	mg/kg wet	0.05000		104	70-130			
1,1,2,2-Tetrachloroethane	0.0424	0.0050	mg/kg wet	0.05000		85	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0529	0.0050	mg/kg wet	0.05000		106	70-130			
1,1,2-Trichloroethane	0.0519	0.0050	mg/kg wet	0.05000		104	70-130			
1,1-Dichloroethane	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
1,1-Dichloroethene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130			
1,1-Dichloropropene	0.0509	0.0050	mg/kg wet	0.05000		102	70-130			
1,2,3-Trichlorobenzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
1,2,3-Trichloropropane	0.0427	0.0050	mg/kg wet	0.05000		85	70-130			
1,2,4-Trichlorobenzene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130			
1,2,4-Trimethylbenzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
1,2-Dibromo-3-Chloropropane	0.0423	0.0050	mg/kg wet	0.05000		85	70-130			
1,2-Dibromoethane	0.0526	0.0050	mg/kg wet	0.05000		105	70-130			
1,2-Dichlorobenzene	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
1,2-Dichloroethane	0.0560	0.0050	mg/kg wet	0.05000		112	70-130			
1,2-Dichloropropane	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
1,3,5-Trimethylbenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130			
1,3-Dichlorobenzene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130			
1,3-Dichloropropane	0.0546	0.0050	mg/kg wet	0.05000		109	70-130			
1,4-Dichlorobenzene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
1,4-Dioxane	0.972	0.100	mg/kg wet	1.000		97	70-130			
2,2-Dichloropropane	0.0557	0.0050	mg/kg wet	0.05000		111	70-130			
2-Butanone	0.233	0.0500	mg/kg wet	0.2500		93	70-130			
2-Chlorotoluene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130			
2-Hexanone	0.228	0.0500	mg/kg wet	0.2500		91	70-130			
4-Chlorotoluene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130			
4-Isopropyltoluene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130			
4-Methyl-2-Pentanone	0.217	0.0500	mg/kg wet	0.2500		87	70-130			
Acetone	0.211	0.0500	mg/kg wet	0.2500		84	70-130			
Acrylonitrile	0.0389	0.0050	mg/kg wet	0.05000		78	70-130			

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905219

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BE92009 - 5035										
Benzene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
Bromobenzene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130			
Bromochloromethane	0.0513	0.0050	mg/kg wet	0.05000		103	70-130			
Bromodichloromethane	0.0580	0.0050	mg/kg wet	0.05000		116	70-130			
Bromoform	0.0575	0.0050	mg/kg wet	0.05000		115	70-130			
Bromomethane	0.0591	0.0100	mg/kg wet	0.05000		118	70-130			
Carbon Disulfide	0.0526	0.0050	mg/kg wet	0.05000		105	70-130			
Carbon Tetrachloride	0.0575	0.0050	mg/kg wet	0.05000		115	70-130			
Chlorobenzene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130			
Chloroethane	0.0561	0.0100	mg/kg wet	0.05000		112	70-130			
Chloroform	0.0569	0.0050	mg/kg wet	0.05000		114	70-130			
Chloromethane	0.0498	0.0100	mg/kg wet	0.05000		100	70-130			
cis-1,2-Dichloroethene	0.0513	0.0050	mg/kg wet	0.05000		103	70-130			
cis-1,3-Dichloropropene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130			
Dibromochloromethane	0.0578	0.0050	mg/kg wet	0.05000		116	70-130			
Dibromomethane	0.0517	0.0050	mg/kg wet	0.05000		103	70-130			
Dichlorodifluoromethane	0.0534	0.0100	mg/kg wet	0.05000		107	70-130			
Diethyl Ether	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
Di-isopropyl ether	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
Ethyl tertiary-butyl ether	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
Ethylbenzene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130			
Hexachlorobutadiene	0.0538	0.0050	mg/kg wet	0.05000		108	70-130			
Isopropylbenzene	0.0407	0.0050	mg/kg wet	0.05000		81	70-130			
Methyl tert-Butyl Ether	0.0558	0.0050	mg/kg wet	0.05000		112	70-130			
Methylene Chloride	0.0530	0.0250	mg/kg wet	0.05000		106	70-130			
Naphthalene	0.0454	0.0050	mg/kg wet	0.05000		91	70-130			
n-Butylbenzene	0.0455	0.0050	mg/kg wet	0.05000		91	70-130			
n-Propylbenzene	0.0458	0.0050	mg/kg wet	0.05000		92	70-130			
sec-Butylbenzene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			
Styrene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
tert-Butylbenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			
Tertiary-amyl methyl ether	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
Tetrachloroethene	0.0570	0.0050	mg/kg wet	0.05000		114	70-130			
Tetrahydrofuran	0.0399	0.0050	mg/kg wet	0.05000		80	70-130			
Toluene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
trans-1,2-Dichloroethene	0.0549	0.0050	mg/kg wet	0.05000		110	70-130			
trans-1,3-Dichloropropene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
Trans-1,4-Dichloro-2-Butene	0.0363	0.0050	mg/kg wet	0.05000		73	70-130			
Trichloroethene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
Trichlorofluoromethane	0.0551	0.0050	mg/kg wet	0.05000		110	70-130			
Vinyl Chloride	0.0591	0.0100	mg/kg wet	0.05000		118	70-130			
Xylene O	0.0522	0.0050	mg/kg wet	0.05000		104	70-130			
Xylene P,M	0.0934	0.0100	mg/kg wet	0.1000		93	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0563*		mg/kg wet	*0.05000*		*113*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0532*		mg/kg wet	*0.05000*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0513*		mg/kg wet	*0.05000*		*103*	*70-130*			

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905219

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BE92009 - 5035										
Surrogate: Toluene-d8	*0.0514*		mg/kg wet	*0.05000*		*103*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	6	25	
1,1,1-Trichloroethane	0.0469	0.0050	mg/kg wet	0.05000		94	70-130	10	25	
1,1,2,2-Tetrachloroethane	0.0402	0.0050	mg/kg wet	0.05000		80	70-130	5	25	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	7	25	
1,1,2-Trichloroethane	0.0488	0.0050	mg/kg wet	0.05000		98	70-130	6	25	
1,1-Dichloroethane	0.0470	0.0050	mg/kg wet	0.05000		94	70-130	11	25	
1,1-Dichloroethene	0.0458	0.0050	mg/kg wet	0.05000		92	70-130	13	25	
1,1-Dichloropropene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	4	25	
1,2,3-Trichlorobenzene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	2	25	
1,2,3-Trichloropropane	0.0401	0.0050	mg/kg wet	0.05000		80	70-130	6	25	
1,2,4-Trichlorobenzene	0.0470	0.0050	mg/kg wet	0.05000		94	70-130	2	25	
1,2,4-Trimethylbenzene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130	4	25	
1,2-Dibromo-3-Chloropropane	0.0415	0.0050	mg/kg wet	0.05000		83	70-130	2	25	
1,2-Dibromoethane	0.0477	0.0050	mg/kg wet	0.05000		95	70-130	10	25	
1,2-Dichlorobenzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130	2	25	
1,2-Dichloroethane	0.0506	0.0050	mg/kg wet	0.05000		101	70-130	10	25	
1,2-Dichloropropane	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	6	25	
1,3,5-Trimethylbenzene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	3	25	
1,3-Dichlorobenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	4	25	
1,3-Dichloropropane	0.0500	0.0050	mg/kg wet	0.05000		100	70-130	9	25	
1,4-Dichlorobenzene	0.0447	0.0050	mg/kg wet	0.05000		89	70-130	6	25	
1,4-Dioxane	0.822	0.100	mg/kg wet	1.000		82	70-130	17	20	
2,2-Dichloropropane	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	11	25	
2-Butanone	0.233	0.0500	mg/kg wet	0.2500		93	70-130	0.08	25	
2-Chlorotoluene	0.0446	0.0050	mg/kg wet	0.05000		89	70-130	4	25	
2-Hexanone	0.212	0.0500	mg/kg wet	0.2500		85	70-130	7	25	
4-Chlorotoluene	0.0436	0.0050	mg/kg wet	0.05000		87	70-130	6	25	
4-Isopropyltoluene	0.0434	0.0050	mg/kg wet	0.05000		87	70-130	6	25	
4-Methyl-2-Pentanone	0.202	0.0500	mg/kg wet	0.2500		81	70-130	7	25	
Acetone	0.185	0.0500	mg/kg wet	0.2500		74	70-130	13	25	
Acrylonitrile	0.0363	0.0050	mg/kg wet	0.05000		73	70-130	7	25	
Benzene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	5	25	
Bromobenzene	0.0461	0.0050	mg/kg wet	0.05000		92	70-130	7	25	
Bromochloromethane	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	6	25	
Bromodichloromethane	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	14	25	
Bromoform	0.0526	0.0050	mg/kg wet	0.05000		105	70-130	9	25	
Bromomethane	0.0565	0.0100	mg/kg wet	0.05000		113	70-130	4	25	
Carbon Disulfide	0.0484	0.0050	mg/kg wet	0.05000		97	70-130	8	25	
Carbon Tetrachloride	0.0528	0.0050	mg/kg wet	0.05000		106	70-130	9	25	
Chlorobenzene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	1	25	
Chloroethane	0.0519	0.0100	mg/kg wet	0.05000		104	70-130	8	25	
Chloroform	0.0504	0.0050	mg/kg wet	0.05000		101	70-130	12	25	
Chloromethane	0.0488	0.0100	mg/kg wet	0.05000		98	70-130	2	25	

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905219

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BE92009 - 5035										
cis-1,2-Dichloroethene	0.0455	0.0050	mg/kg wet	0.05000		91	70-130	12	25	
cis-1,3-Dichloropropene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130	8	25	
Dibromochloromethane	0.0544	0.0050	mg/kg wet	0.05000		109	70-130	6	25	
Dibromomethane	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	9	25	
Dichlorodifluoromethane	0.0471	0.0100	mg/kg wet	0.05000		94	70-130	13	25	
Diethyl Ether	0.0368	0.0050	mg/kg wet	0.05000		74	70-130	20	25	
Di-isopropyl ether	0.0455	0.0050	mg/kg wet	0.05000		91	70-130	4	25	
Ethyl tertiary-butyl ether	0.0430	0.0050	mg/kg wet	0.05000		86	70-130	9	25	
Ethylbenzene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	3	25	
Hexachlorobutadiene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	6	25	
Isopropylbenzene	0.0382	0.0050	mg/kg wet	0.05000		76	70-130	6	25	
Methyl tert-Butyl Ether	0.0496	0.0050	mg/kg wet	0.05000		99	70-130	12	25	
Methylene Chloride	0.0487	0.0250	mg/kg wet	0.05000		97	70-130	8	25	
Naphthalene	0.0447	0.0050	mg/kg wet	0.05000		89	70-130	2	25	
n-Butylbenzene	0.0461	0.0050	mg/kg wet	0.05000		92	70-130	1	25	
n-Propylbenzene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	2	25	
sec-Butylbenzene	0.0448	0.0050	mg/kg wet	0.05000		90	70-130	4	25	
Styrene	0.0456	0.0050	mg/kg wet	0.05000		91	70-130	5	25	
tert-Butylbenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	4	25	
Tertiary-amyl methyl ether	0.0461	0.0050	mg/kg wet	0.05000		92	70-130	6	25	
Tetrachloroethene	0.0525	0.0050	mg/kg wet	0.05000		105	70-130	8	25	
Tetrahydrofuran	0.0370	0.0050	mg/kg wet	0.05000		74	70-130	8	25	
Toluene	0.0454	0.0050	mg/kg wet	0.05000		91	70-130	6	25	
trans-1,2-Dichloroethene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130	9	25	
trans-1,3-Dichloropropene	0.0442	0.0050	mg/kg wet	0.05000		88	70-130	11	25	
Trans-1,4-Dichloro-2-Butene	0.0356	0.0050	mg/kg wet	0.05000		71	70-130	2	25	
Trichloroethene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130	6	25	
Trichlorofluoromethane	0.0504	0.0050	mg/kg wet	0.05000		101	70-130	9	25	
Vinyl Chloride	0.0529	0.0100	mg/kg wet	0.05000		106	70-130	11	25	
Xylene O	0.0478	0.0050	mg/kg wet	0.05000		96	70-130	9	25	
Xylene P,M	0.0923	0.0100	mg/kg wet	0.1000		92	70-130	1	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0520*		mg/kg wet	*0.05000*		*104*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0515*		mg/kg wet	*0.05000*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0491*		mg/kg wet	*0.05000*		*98*	*70-130*			
Surrogate: Toluene-d8	*0.0490*		mg/kg wet	*0.05000*		*98*	*70-130*			
Batch BE92112 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.0050	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905219

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BE92112 - 5035										
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0500	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0500	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet							
Acetone	ND	0.0500	mg/kg wet							
Acrylonitrile	ND	0.0050	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0050	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905219

Quality Control Data

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BE92112 - 5035										
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0250	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trans-1,4-Dichloro-2-Butene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0499*		mg/kg wet	*0.05000*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0504*		mg/kg wet	*0.05000*		*101*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0475*		mg/kg wet	*0.05000*		*95*	*70-130*			
Surrogate: Toluene-d8	*0.0508*		mg/kg wet	*0.05000*		*102*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
1,1,1-Trichloroethane	0.0417	0.0050	mg/kg wet	0.05000		83	70-130			
1,1,2,2-Tetrachloroethane	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0483	0.0050	mg/kg wet	0.05000		97	70-130			
1,1,2-Trichloroethane	0.0508	0.0050	mg/kg wet	0.05000		102	70-130			
1,1-Dichloroethane	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
1,1-Dichloroethene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
1,1-Dichloropropene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130			
1,2,3-Trichlorobenzene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
1,2,3-Trichloropropane	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
1,2,4-Trichlorobenzene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
1,2,4-Trimethylbenzene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130			
1,2-Dibromo-3-Chloropropane	0.0429	0.0050	mg/kg wet	0.05000		86	70-130			
1,2-Dibromoethane	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
1,2-Dichlorobenzene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
1,2-Dichloroethane	0.0427	0.0050	mg/kg wet	0.05000		85	70-130			
1,2-Dichloropropane	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
1,3,5-Trimethylbenzene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
1,3-Dichlorobenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130			
1,3-Dichloropropane	0.0529	0.0050	mg/kg wet	0.05000		106	70-130			
1,4-Dichlorobenzene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905219

Quality Control Data

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BE92112 - 5035										
1,4-Dioxane	1.05	0.100	mg/kg wet	1.000		105	70-130			
2,2-Dichloropropane	0.0439	0.0050	mg/kg wet	0.05000		88	70-130			
2-Butanone	0.250	0.0500	mg/kg wet	0.2500		100	70-130			
2-Chlorotoluene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
2-Hexanone	0.268	0.0500	mg/kg wet	0.2500		107	70-130			
4-Chlorotoluene	0.0451	0.0050	mg/kg wet	0.05000		90	70-130			
4-Isopropyltoluene	0.0447	0.0050	mg/kg wet	0.05000		89	70-130			
4-Methyl-2-Pentanone	0.241	0.0500	mg/kg wet	0.2500		96	70-130			
Acetone	0.195	0.0500	mg/kg wet	0.2500		78	70-130			
Acrylonitrile	0.0504	0.0050	mg/kg wet	0.05000		101	70-130			
Benzene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			
Bromobenzene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
Bromochloromethane	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
Bromodichloromethane	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
Bromoform	0.0509	0.0050	mg/kg wet	0.05000		102	70-130			
Bromomethane	0.0495	0.0100	mg/kg wet	0.05000		99	70-130			
Carbon Disulfide	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			
Carbon Tetrachloride	0.0448	0.0050	mg/kg wet	0.05000		90	70-130			
Chlorobenzene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130			
Chloroethane	0.0477	0.0100	mg/kg wet	0.05000		95	70-130			
Chloroform	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
Chloromethane	0.0426	0.0100	mg/kg wet	0.05000		85	70-130			
cis-1,2-Dichloroethene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
cis-1,3-Dichloropropene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
Dibromochloromethane	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			
Dibromomethane	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
Dichlorodifluoromethane	0.0389	0.0100	mg/kg wet	0.05000		78	70-130			
Diethyl Ether	0.0370	0.0050	mg/kg wet	0.05000		74	70-130			
Di-isopropyl ether	0.0468	0.0050	mg/kg wet	0.05000		94	70-130			
Ethyl tertiary-butyl ether	0.0425	0.0050	mg/kg wet	0.05000		85	70-130			
Ethylbenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
Hexachlorobutadiene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
Isopropylbenzene	0.0412	0.0050	mg/kg wet	0.05000		82	70-130			
Methyl tert-Butyl Ether	0.0462	0.0050	mg/kg wet	0.05000		92	70-130			
Methylene Chloride	0.0496	0.0250	mg/kg wet	0.05000		99	70-130			
Naphthalene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
n-Butylbenzene	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
n-Propylbenzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
sec-Butylbenzene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
Styrene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
tert-Butylbenzene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
Tertiary-amyl methyl ether	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
Tetrachloroethene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
Tetrahydrofuran	0.0433	0.0050	mg/kg wet	0.05000		87	70-130			
Toluene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
trans-1,2-Dichloroethene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905219

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BE92112 - 5035										
trans-1,3-Dichloropropene	0.0429	0.0050	mg/kg wet	0.05000		86	70-130			
Trans-1,4-Dichloro-2-Butene	0.0413	0.0050	mg/kg wet	0.05000		83	70-130			
Trichloroethene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
Trichlorofluoromethane	0.0402	0.0050	mg/kg wet	0.05000		80	70-130			
Vinyl Chloride	0.0462	0.0100	mg/kg wet	0.05000		92	70-130			
Xylene O	0.0495	0.0050	mg/kg wet	0.05000		99	70-130			
Xylene P,M	0.0957	0.0100	mg/kg wet	0.1000		96	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0417*		mg/kg wet	*0.05000*		*83*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0502*		mg/kg wet	*0.05000*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0427*		mg/kg wet	*0.05000*		*85*	*70-130*			
Surrogate: Toluene-d8	*0.0528*		mg/kg wet	*0.05000*		*106*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	3	25	
1,1,1-Trichloroethane	0.0413	0.0050	mg/kg wet	0.05000		83	70-130	1	25	
1,1,2,2-Tetrachloroethane	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	1	25	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0461	0.0050	mg/kg wet	0.05000		92	70-130	5	25	
1,1,2-Trichloroethane	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	3	25	
1,1-Dichloroethane	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	0.6	25	
1,1-Dichloroethene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130	2	25	
1,1-Dichloropropene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130	1	25	
1,2,3-Trichlorobenzene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	5	25	
1,2,3-Trichloropropane	0.0457	0.0050	mg/kg wet	0.05000		91	70-130	2	25	
1,2,4-Trichlorobenzene	0.0439	0.0050	mg/kg wet	0.05000		88	70-130	4	25	
1,2,4-Trimethylbenzene	0.0460	0.0050	mg/kg wet	0.05000		92	70-130	0.4	25	
1,2-Dibromo-3-Chloropropane	0.0434	0.0050	mg/kg wet	0.05000		87	70-130	1	25	
1,2-Dibromoethane	0.0484	0.0050	mg/kg wet	0.05000		97	70-130	4	25	
1,2-Dichlorobenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	0.9	25	
1,2-Dichloroethane	0.0438	0.0050	mg/kg wet	0.05000		88	70-130	3	25	
1,2-Dichloropropane	0.0473	0.0050	mg/kg wet	0.05000		95	70-130	2	25	
1,3,5-Trimethylbenzene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	3	25	
1,3-Dichlorobenzene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130	0.5	25	
1,3-Dichloropropane	0.0521	0.0050	mg/kg wet	0.05000		104	70-130	1	25	
1,4-Dichlorobenzene	0.0446	0.0050	mg/kg wet	0.05000		89	70-130	7	25	
1,4-Dioxane	0.983	0.100	mg/kg wet	1.000		98	70-130	7	20	
2,2-Dichloropropane	0.0431	0.0050	mg/kg wet	0.05000		86	70-130	2	25	
2-Butanone	0.240	0.0500	mg/kg wet	0.2500		96	70-130	4	25	
2-Chlorotoluene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	3	25	
2-Hexanone	0.251	0.0500	mg/kg wet	0.2500		100	70-130	7	25	
4-Chlorotoluene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130	5	25	
4-Isopropyltoluene	0.0444	0.0050	mg/kg wet	0.05000		89	70-130	0.7	25	
4-Methyl-2-Pentanone	0.227	0.0500	mg/kg wet	0.2500		91	70-130	6	25	
Acetone	0.177	0.0500	mg/kg wet	0.2500		71	70-130	9	25	
Acrylonitrile	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	5	25	
Benzene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130	0.7	25	
Bromobenzene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	4	25	
Bromochloromethane	0.0441	0.0050	mg/kg wet	0.05000		88	70-130	2	25	

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905219

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BE92112 - 5035										
Bromodichloromethane	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	1	25	
Bromoform	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	2	25	
Bromomethane	0.0499	0.0100	mg/kg wet	0.05000		100	70-130	0.8	25	
Carbon Disulfide	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	3	25	
Carbon Tetrachloride	0.0454	0.0050	mg/kg wet	0.05000		91	70-130	1	25	
Chlorobenzene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130	0.6	25	
Chloroethane	0.0459	0.0100	mg/kg wet	0.05000		92	70-130	4	25	
Chloroform	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	2	25	
Chloromethane	0.0431	0.0100	mg/kg wet	0.05000		86	70-130	1	25	
cis-1,2-Dichloroethene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130	0.7	25	
cis-1,3-Dichloropropene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130	3	25	
Dibromochloromethane	0.0502	0.0050	mg/kg wet	0.05000		100	70-130	1	25	
Dibromomethane	0.0463	0.0050	mg/kg wet	0.05000		93	70-130	5	25	
Dichlorodifluoromethane	0.0379	0.0100	mg/kg wet	0.05000		76	70-130	3	25	
Diethyl Ether	0.0337	0.0050	mg/kg wet	0.05000		67	70-130	9	25	B-
Di-isopropyl ether	0.0476	0.0050	mg/kg wet	0.05000		95	70-130	2	25	
Ethyl tertiary-butyl ether	0.0417	0.0050	mg/kg wet	0.05000		83	70-130	2	25	
Ethylbenzene	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	2	25	
Hexachlorobutadiene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130	0.3	25	
Isopropylbenzene	0.0415	0.0050	mg/kg wet	0.05000		83	70-130	0.7	25	
Methyl tert-Butyl Ether	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	2	25	
Methylene Chloride	0.0498	0.0250	mg/kg wet	0.05000		100	70-130	0.4	25	
Naphthalene	0.0449	0.0050	mg/kg wet	0.05000		90	70-130	6	25	
n-Butylbenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	1	25	
n-Propylbenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	3	25	
sec-Butylbenzene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130	1	25	
Styrene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	4	25	
tert-Butylbenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130	1	25	
Tertiary-amyl methyl ether	0.0440	0.0050	mg/kg wet	0.05000		88	70-130	4	25	
Tetrachloroethene	0.0510	0.0050	mg/kg wet	0.05000		102	70-130	2	25	
Tetrahydrofuran	0.0436	0.0050	mg/kg wet	0.05000		87	70-130	0.8	25	
Toluene	0.0448	0.0050	mg/kg wet	0.05000		90	70-130	6	25	
trans-1,2-Dichloroethene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	3	25	
trans-1,3-Dichloropropene	0.0414	0.0050	mg/kg wet	0.05000		83	70-130	4	25	
Trans-1,4-Dichloro-2-Butene	0.0393	0.0050	mg/kg wet	0.05000		79	70-130	5	25	
Trichloroethene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	0.6	25	
Trichlorofluoromethane	0.0405	0.0050	mg/kg wet	0.05000		81	70-130	0.8	25	
Vinyl Chloride	0.0457	0.0100	mg/kg wet	0.05000		91	70-130	1	25	
Xylene O	0.0496	0.0050	mg/kg wet	0.05000		99	70-130	0.2	25	
Xylene P,M	0.0958	0.0100	mg/kg wet	0.1000		96	70-130	0.06	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0444*		mg/kg wet	*0.05000*		*89*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0503*		mg/kg wet	*0.05000*		*101*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0441*		mg/kg wet	*0.05000*		*88*	*70-130*			
Surrogate: Toluene-d8	*0.0517*		mg/kg wet	*0.05000*		*103*	*70-130*			
5035/8260B Volatile Organic Compounds / Methanol										

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905219

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BE92010 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.100	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0500	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.0500	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0500	mg/kg wet							
1,1-Dichloroethane	ND	0.0500	mg/kg wet							
1,1-Dichloroethene	ND	0.0500	mg/kg wet							
1,1-Dichloropropene	ND	0.0500	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0500	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0500	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0500	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0500	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.300	mg/kg wet							
1,2-Dibromoethane	ND	0.0500	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,2-Dichloroethane	ND	0.0500	mg/kg wet							
1,2-Dichloropropane	ND	0.0500	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0500	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,3-Dichloropropane	ND	0.0500	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,4-Dioxane - Screen	ND	5.00	mg/kg wet							
2,2-Dichloropropane	ND	0.100	mg/kg wet							
2-Butanone	ND	1.25	mg/kg wet							
2-Chlorotoluene	ND	0.0500	mg/kg wet							
2-Hexanone	ND	0.500	mg/kg wet							
4-Chlorotoluene	ND	0.0500	mg/kg wet							
4-Isopropyltoluene	ND	0.0500	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.500	mg/kg wet							
Acetone	ND	1.25	mg/kg wet							
Acrylonitrile	ND	0.400	mg/kg wet							
Benzene	ND	0.0500	mg/kg wet							
Bromobenzene	ND	0.0500	mg/kg wet							
Bromochloromethane	ND	0.0500	mg/kg wet							
Bromodichloromethane	ND	0.0500	mg/kg wet							
Bromoform	ND	0.0500	mg/kg wet							
Bromomethane	ND	0.100	mg/kg wet							
Carbon Disulfide	ND	0.0500	mg/kg wet							
Carbon Tetrachloride	ND	0.0500	mg/kg wet							
Chlorobenzene	ND	0.0500	mg/kg wet							
Chloroethane	ND	0.100	mg/kg wet							
Chloroform	ND	0.0500	mg/kg wet							
Chloromethane	ND	0.100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0500	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905219

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BE92010 - 5035										
Dibromochloromethane	ND	0.0500	mg/kg wet							
Dibromomethane	ND	0.0500	mg/kg wet							
Dichlorodifluoromethane	ND	0.0500	mg/kg wet							
Diethyl Ether	ND	0.0500	mg/kg wet							
Di-isopropyl ether	ND	0.0500	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0500	mg/kg wet							
Ethylbenzene	ND	0.0500	mg/kg wet							
Hexachlorobutadiene	ND	0.0500	mg/kg wet							
Isopropylbenzene	ND	0.0500	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0500	mg/kg wet							
Methylene Chloride	ND	0.250	mg/kg wet							
Naphthalene	ND	0.0500	mg/kg wet							
n-Butylbenzene	ND	0.0500	mg/kg wet							
n-Propylbenzene	ND	0.0500	mg/kg wet							
sec-Butylbenzene	ND	0.0500	mg/kg wet							
Styrene	ND	0.0500	mg/kg wet							
tert-Butylbenzene	ND	0.0500	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0500	mg/kg wet							
Tetrachloroethene	ND	0.0500	mg/kg wet							
Tetrahydrofuran	ND	0.500	mg/kg wet							
Toluene	ND	0.0500	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0500	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0500	mg/kg wet							
Trans-1,4-Dichloro-2-Butene	ND	0.500	mg/kg wet							
Trichloroethene	ND	0.0500	mg/kg wet							
Trichlorofluoromethane	ND	0.0500	mg/kg wet							
Vinyl Chloride	ND	0.0500	mg/kg wet							
Xylene O	ND	0.0500	mg/kg wet							
Xylene P,M	ND	0.100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*2.27*		mg/kg wet	*2.500*		*91*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.26*		mg/kg wet	*2.500*		*90*	*70-130*			
Surrogate: Dibromofluoromethane	*2.45*		mg/kg wet	*2.500*		*98*	*70-130*			
Surrogate: Toluene-d8	*2.34*		mg/kg wet	*2.500*		*94*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	2.46	0.100	mg/kg wet	2.500		99	70-130			
1,1,1-Trichloroethane	2.48	0.0500	mg/kg wet	2.500		99	70-130			
1,1,2,2-Tetrachloroethane	2.29	0.0500	mg/kg wet	2.500		92	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane	2.43	0.0500	mg/kg wet	2.500		97	70-130			
1,1,2-Trichloroethane	2.38	0.0500	mg/kg wet	2.500		95	70-130			
1,1-Dichloroethane	2.48	0.0500	mg/kg wet	2.500		99	70-130			
1,1-Dichloroethene	2.50	0.0500	mg/kg wet	2.500		100	70-130			
1,1-Dichloropropene	2.49	0.0500	mg/kg wet	2.500		100	70-130			
1,2,3-Trichlorobenzene	2.45	0.0500	mg/kg wet	2.500		98	70-130			
1,2,3-Trichloropropane	2.29	0.0500	mg/kg wet	2.500		92	70-130			
1,2,4-Trichlorobenzene	2.45	0.0500	mg/kg wet	2.500		98	70-130			
1,2,4-Trimethylbenzene	2.45	0.0500	mg/kg wet	2.500		98	70-130			

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905219

Quality Control Data

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BE92010 - 5035										
1,2-Dibromo-3-Chloropropane	2.52	0.300	mg/kg wet	2.500		101	70-130			
1,2-Dibromoethane	2.40	0.0500	mg/kg wet	2.500		96	70-130			
1,2-Dichlorobenzene	2.42	0.0500	mg/kg wet	2.500		97	70-130			
1,2-Dichloroethane	2.42	0.0500	mg/kg wet	2.500		97	70-130			
1,2-Dichloropropane	2.45	0.0500	mg/kg wet	2.500		98	70-130			
1,3,5-Trimethylbenzene	2.43	0.0500	mg/kg wet	2.500		97	70-130			
1,3-Dichlorobenzene	2.44	0.0500	mg/kg wet	2.500		98	70-130			
1,3-Dichloropropane	2.46	0.0500	mg/kg wet	2.500		99	70-130			
1,4-Dichlorobenzene	2.38	0.0500	mg/kg wet	2.500		95	70-130			
1,4-Dioxane - Screen	68.7	5.00	mg/kg wet	50.00		137	44-241			
2,2-Dichloropropane	2.75	0.100	mg/kg wet	2.500		110	70-130			
2-Butanone	12.3	1.25	mg/kg wet	12.50		98	70-130			
2-Chlorotoluene	2.29	0.0500	mg/kg wet	2.500		92	70-130			
2-Hexanone	11.8	0.500	mg/kg wet	12.50		94	70-130			
4-Chlorotoluene	2.38	0.0500	mg/kg wet	2.500		95	70-130			
4-Isopropyltoluene	2.35	0.0500	mg/kg wet	2.500		94	70-130			
4-Methyl-2-Pentanone	11.9	0.500	mg/kg wet	12.50		95	70-130			
Acetone	10.9	1.25	mg/kg wet	12.50		87	70-130			
Acrylonitrile	2.45	0.400	mg/kg wet	2.500		98	70-130			
Benzene	2.44	0.0500	mg/kg wet	2.500		98	70-130			
Bromobenzene	2.46	0.0500	mg/kg wet	2.500		98	70-130			
Bromochloromethane	2.37	0.0500	mg/kg wet	2.500		95	70-130			
Bromodichloromethane	2.57	0.0500	mg/kg wet	2.500		103	70-130			
Bromoform	2.44	0.0500	mg/kg wet	2.500		97	70-130			
Bromomethane	2.96	0.100	mg/kg wet	2.500		118	70-130			
Carbon Disulfide	2.54	0.0500	mg/kg wet	2.500		102	70-130			
Carbon Tetrachloride	2.50	0.0500	mg/kg wet	2.500		100	70-130			
Chlorobenzene	2.43	0.0500	mg/kg wet	2.500		97	70-130			
Chloroethane	2.59	0.100	mg/kg wet	2.500		104	70-130			
Chloroform	2.48	0.0500	mg/kg wet	2.500		99	70-130			
Chloromethane	2.06	0.100	mg/kg wet	2.500		82	70-130			
cis-1,2-Dichloroethene	2.48	0.0500	mg/kg wet	2.500		99	70-130			
cis-1,3-Dichloropropene	2.57	0.0500	mg/kg wet	2.500		103	70-130			
Dibromochloromethane	2.53	0.0500	mg/kg wet	2.500		101	70-130			
Dibromomethane	2.39	0.0500	mg/kg wet	2.500		96	70-130			
Dichlorodifluoromethane	2.09	0.0500	mg/kg wet	2.500		84	70-130			
Diethyl Ether	1.97	0.0500	mg/kg wet	2.500		79	70-130			
Di-isopropyl ether	2.51	0.0500	mg/kg wet	2.500		100	70-130			
Ethyl tertiary-butyl ether	2.42	0.0500	mg/kg wet	2.500		97	70-130			
Ethylbenzene	2.45	0.0500	mg/kg wet	2.500		98	70-130			
Hexachlorobutadiene	2.57	0.0500	mg/kg wet	2.500		103	70-130			
Isopropylbenzene	2.12	0.0500	mg/kg wet	2.500		85	70-130			
Methyl tert-Butyl Ether	2.43	0.0500	mg/kg wet	2.500		97	70-130			
Methylene Chloride	2.46	0.250	mg/kg wet	2.500		98	70-130			
Naphthalene	2.39	0.0500	mg/kg wet	2.500		96	70-130			
n-Butylbenzene	2.51	0.0500	mg/kg wet	2.500		100	70-130			

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905219

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BE92010 - 5035										
n-Propylbenzene	2.53	0.0500	mg/kg wet	2.500		101	70-130			
sec-Butylbenzene	2.46	0.0500	mg/kg wet	2.500		98	70-130			
Styrene	2.49	0.0500	mg/kg wet	2.500		99	70-130			
tert-Butylbenzene	2.54	0.0500	mg/kg wet	2.500		102	70-130			
Tertiary-amyl methyl ether	2.37	0.0500	mg/kg wet	2.500		95	70-130			
Tetrachloroethene	2.19	0.0500	mg/kg wet	2.500		88	70-130			
Tetrahydrofuran	2.16	0.500	mg/kg wet	2.500		86	70-130			
Toluene	2.44	0.0500	mg/kg wet	2.500		98	70-130			
trans-1,2-Dichloroethene	2.65	0.0500	mg/kg wet	2.500		106	70-130			
trans-1,3-Dichloropropene	2.27	0.0500	mg/kg wet	2.500		91	70-130			
Trans-1,4-Dichloro-2-Butene	2.51	0.500	mg/kg wet	2.500		100	70-130			
Trichloroethene	2.46	0.0500	mg/kg wet	2.500		98	70-130			
Trichlorofluoromethane	2.18	0.0500	mg/kg wet	2.500		87	70-130			
Vinyl Chloride	2.49	0.0500	mg/kg wet	2.500		100	70-130			
Xylene O	2.46	0.0500	mg/kg wet	2.500		99	70-130			
Xylene P,M	4.92	0.100	mg/kg wet	5.000		98	70-130			
Surrogate: 1,2-Dichloroethane-d4	*2.39*		mg/kg wet	*2.500*		*96*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.34*		mg/kg wet	*2.500*		*93*	*70-130*			
Surrogate: Dibromofluoromethane	*2.43*		mg/kg wet	*2.500*		*97*	*70-130*			
Surrogate: Toluene-d8	*2.44*		mg/kg wet	*2.500*		*98*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	2.44	0.100	mg/kg wet	2.500		98	70-130	1	25	
1,1,1-Trichloroethane	2.47	0.0500	mg/kg wet	2.500		99	70-130	0.3	25	
1,1,2,2-Tetrachloroethane	2.34	0.0500	mg/kg wet	2.500		94	70-130	2	25	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.40	0.0500	mg/kg wet	2.500		96	70-130	1	25	
1,1,2-Trichloroethane	2.45	0.0500	mg/kg wet	2.500		98	70-130	3	25	
1,1-Dichloroethane	2.48	0.0500	mg/kg wet	2.500		99	70-130	0.1	25	
1,1-Dichloroethene	2.49	0.0500	mg/kg wet	2.500		99	70-130	0.8	25	
1,1-Dichloropropene	2.48	0.0500	mg/kg wet	2.500		99	70-130	0.2	25	
1,2,3-Trichlorobenzene	2.50	0.0500	mg/kg wet	2.500		100	70-130	2	25	
1,2,3-Trichloropropane	2.46	0.0500	mg/kg wet	2.500		99	70-130	7	25	
1,2,4-Trichlorobenzene	2.46	0.0500	mg/kg wet	2.500		98	70-130	0.4	25	
1,2,4-Trimethylbenzene	2.40	0.0500	mg/kg wet	2.500		96	70-130	2	25	
1,2-Dibromo-3-Chloropropane	2.56	0.300	mg/kg wet	2.500		103	70-130	2	25	
1,2-Dibromoethane	2.44	0.0500	mg/kg wet	2.500		97	70-130	1	25	
1,2-Dichlorobenzene	2.41	0.0500	mg/kg wet	2.500		96	70-130	0.4	25	
1,2-Dichloroethane	2.44	0.0500	mg/kg wet	2.500		97	70-130	0.6	25	
1,2-Dichloropropane	2.46	0.0500	mg/kg wet	2.500		98	70-130	0.4	25	
1,3,5-Trimethylbenzene	2.38	0.0500	mg/kg wet	2.500		95	70-130	2	25	
1,3-Dichlorobenzene	2.39	0.0500	mg/kg wet	2.500		96	70-130	2	25	
1,3-Dichloropropane	2.49	0.0500	mg/kg wet	2.500		100	70-130	1	25	
1,4-Dichlorobenzene	2.36	0.0500	mg/kg wet	2.500		95	70-130	0.7	25	
1,4-Dioxane - Screen	80.2	5.00	mg/kg wet	50.00		160	44-241	16	200	
2,2-Dichloropropane	2.67	0.100	mg/kg wet	2.500		107	70-130	3	25	
2-Butanone	12.8	1.25	mg/kg wet	12.50		102	70-130	4	25	
2-Chlorotoluene	2.36	0.0500	mg/kg wet	2.500		94	70-130	3	25	

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905219

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BE92010 - 5035										
2-Hexanone	12.2	0.500	mg/kg wet	12.50		97	70-130	3	25	
4-Chlorotoluene	2.36	0.0500	mg/kg wet	2.500		95	70-130	0.7	25	
4-Isopropyltoluene	2.30	0.0500	mg/kg wet	2.500		92	70-130	2	25	
4-Methyl-2-Pentanone	12.4	0.500	mg/kg wet	12.50		99	70-130	4	25	
Acetone	11.1	1.25	mg/kg wet	12.50		89	70-130	1	25	
Acrylonitrile	2.61	0.400	mg/kg wet	2.500		104	70-130	6	25	
Benzene	2.45	0.0500	mg/kg wet	2.500		98	70-130	0.3	25	
Bromobenzene	2.46	0.0500	mg/kg wet	2.500		98	70-130	0.2	25	
Bromochloromethane	2.36	0.0500	mg/kg wet	2.500		94	70-130	0.5	25	
Bromodichloromethane	2.58	0.0500	mg/kg wet	2.500		103	70-130	0.2	25	
Bromoform	2.49	0.0500	mg/kg wet	2.500		99	70-130	2	25	
Bromomethane	2.85	0.100	mg/kg wet	2.500		114	70-130	4	25	
Carbon Disulfide	2.50	0.0500	mg/kg wet	2.500		100	70-130	2	25	
Carbon Tetrachloride	2.47	0.0500	mg/kg wet	2.500		99	70-130	1	25	
Chlorobenzene	2.41	0.0500	mg/kg wet	2.500		96	70-130	0.8	25	
Chloroethane	2.41	0.100	mg/kg wet	2.500		97	70-130	7	25	
Chloroform	2.47	0.0500	mg/kg wet	2.500		99	70-130	0.2	25	
Chloromethane	2.07	0.100	mg/kg wet	2.500		83	70-130	0.4	25	
cis-1,2-Dichloroethene	2.50	0.0500	mg/kg wet	2.500		100	70-130	0.6	25	
cis-1,3-Dichloropropene	2.57	0.0500	mg/kg wet	2.500		103	70-130	0.1	25	
Dibromochloromethane	2.56	0.0500	mg/kg wet	2.500		102	70-130	1	25	
Dibromomethane	2.41	0.0500	mg/kg wet	2.500		96	70-130	0.8	25	
Dichlorodifluoromethane	2.05	0.0500	mg/kg wet	2.500		82	70-130	2	25	
Diethyl Ether	2.01	0.0500	mg/kg wet	2.500		80	70-130	2	25	
Di-isopropyl ether	2.52	0.0500	mg/kg wet	2.500		101	70-130	0.3	25	
Ethyl tertiary-butyl ether	2.46	0.0500	mg/kg wet	2.500		99	70-130	2	25	
Ethylbenzene	2.41	0.0500	mg/kg wet	2.500		97	70-130	2	25	
Hexachlorobutadiene	2.56	0.0500	mg/kg wet	2.500		102	70-130	0.4	25	
Isopropylbenzene	2.09	0.0500	mg/kg wet	2.500		84	70-130	2	25	
Methyl tert-Butyl Ether	2.51	0.0500	mg/kg wet	2.500		100	70-130	3	25	
Methylene Chloride	2.47	0.250	mg/kg wet	2.500		99	70-130	0.4	25	
Naphthalene	2.45	0.0500	mg/kg wet	2.500		98	70-130	3	25	
n-Butylbenzene	2.44	0.0500	mg/kg wet	2.500		97	70-130	3	25	
n-Propylbenzene	2.39	0.0500	mg/kg wet	2.500		96	70-130	6	25	
sec-Butylbenzene	2.42	0.0500	mg/kg wet	2.500		97	70-130	1	25	
Styrene	2.47	0.0500	mg/kg wet	2.500		99	70-130	0.8	25	
tert-Butylbenzene	2.51	0.0500	mg/kg wet	2.500		100	70-130	1	25	
Tertiary-amyl methyl ether	2.44	0.0500	mg/kg wet	2.500		97	70-130	3	25	
Tetrachloroethene	2.15	0.0500	mg/kg wet	2.500		86	70-130	2	25	
Tetrahydrofuran	2.28	0.500	mg/kg wet	2.500		91	70-130	6	25	
Toluene	2.43	0.0500	mg/kg wet	2.500		97	70-130	0.3	25	
trans-1,2-Dichloroethene	2.65	0.0500	mg/kg wet	2.500		106	70-130	0.04	25	
trans-1,3-Dichloropropene	2.29	0.0500	mg/kg wet	2.500		92	70-130	1	25	
Trans-1,4-Dichloro-2-Butene	2.52	0.500	mg/kg wet	2.500		101	70-130	0.4	25	
Trichloroethene	2.45	0.0500	mg/kg wet	2.500		98	70-130	0.5	25	
Trichlorofluoromethane	2.15	0.0500	mg/kg wet	2.500		86	70-130	2	25	

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905219

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BE92010 - 5035										
Vinyl Chloride	2.50	0.0500	mg/kg wet	2.500		100	70-130	0.1	25	
Xylene O	2.44	0.0500	mg/kg wet	2.500		98	70-130	0.7	25	
Xylene P,M	4.86	0.100	mg/kg wet	5.000		97	70-130	1	25	
Surrogate: 1,2-Dichloroethane-d4	*2.41*		mg/kg wet	*2.500*		*96*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.33*		mg/kg wet	*2.500*		*93*	*70-130*			
Surrogate: Dibromofluoromethane	*2.44*		mg/kg wet	*2.500*		*98*	*70-130*			
Surrogate: Toluene-d8	*2.42*		mg/kg wet	*2.500*		*97*	*70-130*			
8270C Polynuclear Aromatic Hydrocarbons										
Batch BE91917 - 3546										
Blank										
2-Methylnaphthalene	ND	0.333	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.88*		mg/kg wet	*3.333*		*87*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.43*		mg/kg wet	*3.333*		*73*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.70*		mg/kg wet	*3.333*		*81*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.53*		mg/kg wet	*3.333*		*106*	*30-130*			
LCS										
2-Methylnaphthalene	3.28	0.333	mg/kg wet	3.333		98	40-140			
Acenaphthene	3.10	0.333	mg/kg wet	3.333		93	40-140			
Acenaphthylene	2.79	0.333	mg/kg wet	3.333		84	40-140			
Anthracene	3.31	0.333	mg/kg wet	3.333		99	40-140			
Benzo(a)anthracene	3.50	0.333	mg/kg wet	3.333		105	40-140			
Benzo(a)pyrene	3.25	0.167	mg/kg wet	3.333		98	40-140			
Benzo(b)fluoranthene	3.23	0.333	mg/kg wet	3.333		97	40-140			
Benzo(g,h,i)perylene	3.67	0.333	mg/kg wet	3.333		110	40-140			
Benzo(k)fluoranthene	3.44	0.333	mg/kg wet	3.333		103	40-140			
Chrysene	3.46	0.167	mg/kg wet	3.333		104	40-140			
Dibenzo(a,h)Anthracene	3.62	0.167	mg/kg wet	3.333		109	40-140			
Fluoranthene	3.59	0.333	mg/kg wet	3.333		108	40-140			

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905219

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Polynuclear Aromatic Hydrocarbons										
Batch BE91917 - 3546										
Fluorene	3.49	0.333	mg/kg wet	3.333		105	40-140			
Indeno(1,2,3-cd)Pyrene	3.61	0.333	mg/kg wet	3.333		108	40-140			
Naphthalene	2.96	0.333	mg/kg wet	3.333		89	40-140			
Phenanthrene	3.04	0.333	mg/kg wet	3.333		91	40-140			
Pyrene	3.48	0.333	mg/kg wet	3.333		104	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.94*		mg/kg wet	*3.333*		*88*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.61*		mg/kg wet	*3.333*		*78*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.74*		mg/kg wet	*3.333*		*82*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.30*		mg/kg wet	*3.333*		*99*	*30-130*			
LCS Dup										
2-Methylnaphthalene	3.09	0.333	mg/kg wet	3.333		93	40-140	6	30	
Acenaphthene	2.96	0.333	mg/kg wet	3.333		89	40-140	5	30	
Acenaphthylene	2.66	0.333	mg/kg wet	3.333		80	40-140	5	30	
Anthracene	3.21	0.333	mg/kg wet	3.333		96	40-140	3	30	
Benzo(a)anthracene	3.32	0.333	mg/kg wet	3.333		99	40-140	5	30	
Benzo(a)pyrene	3.17	0.167	mg/kg wet	3.333		95	40-140	2	30	
Benzo(b)fluoranthene	3.16	0.333	mg/kg wet	3.333		95	40-140	2	30	
Benzo(g,h,i)perylene	3.55	0.333	mg/kg wet	3.333		107	40-140	3	30	
Benzo(k)fluoranthene	3.33	0.333	mg/kg wet	3.333		100	40-140	3	30	
Chrysene	3.29	0.167	mg/kg wet	3.333		99	40-140	5	30	
Dibenzo(a,h)Anthracene	3.44	0.167	mg/kg wet	3.333		103	40-140	5	30	
Fluoranthene	3.33	0.333	mg/kg wet	3.333		100	40-140	8	30	
Fluorene	3.24	0.333	mg/kg wet	3.333		97	40-140	7	30	
Indeno(1,2,3-cd)Pyrene	3.52	0.333	mg/kg wet	3.333		106	40-140	3	30	
Naphthalene	2.77	0.333	mg/kg wet	3.333		83	40-140	7	30	
Phenanthrene	3.00	0.333	mg/kg wet	3.333		90	40-140	1	30	
Pyrene	3.40	0.333	mg/kg wet	3.333		102	40-140	2	30	
Surrogate: 1,2-Dichlorobenzene-d4	*2.76*		mg/kg wet	*3.333*		*83*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.48*		mg/kg wet	*3.333*		*75*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.55*		mg/kg wet	*3.333*		*76*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.22*		mg/kg wet	*3.333*		*97*	*30-130*			
Classical Chemistry										
Batch BE91908 - TCN Prep										
Blank										
Total Cyanide	ND	2.50	mg/kg wet							
LCS										
Total Cyanide	4.91	2.50	mg/kg wet	5.015		98	90-110			
LCS										
Total Cyanide	20.0	2.50	mg/kg wet	20.06		100	90-110			
LCS Dup										
Total Cyanide	20.2	2.50	mg/kg wet	20.06		101	90-110	1	20	
Duplicate **Source: 0905219-08**										
Total Cyanide	57.3	31.5	mg/kg dry		58.6			2	20	

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905219

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Classical Chemistry										
Batch BE91908 - TCN Prep										
Matrix Spike **Source: 0905219-08**										
Total Cyanide	62.8	31.2	mg/kg dry	12.50	58.6	33	75-125			M-
8100M Extractable Total Petroleum Hydrocarbons										
Batch BE91932 - 3546										
Blank										
Total Petroleum Hydrocarbons	ND	20.0	mg/kg wet							
Surrogate: O-Terphenyl	*4.54*		mg/kg wet	*5.000*		*91*	*50-150*			
LCS										
Total Petroleum Hydrocarbons	37.5	20.0	mg/kg wet	35.00		107	60-120			
Surrogate: O-Terphenyl	*5.00*		mg/kg wet	*5.000*		*100*	*50-150*			
LCS Dup										
Total Petroleum Hydrocarbons	36.9	20.0	mg/kg wet	35.00		105	60-120	2	30	
Surrogate: O-Terphenyl	*4.91*		mg/kg wet	*5.000*		*98*	*50-150*			

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\TPH GC2\DATA\052009\G2F07065.D Vial: 99
Acq On : 20 May 2009 14:07 Operator: ML
Sample : TPH 50 Inst : GC2
Misc : Multiplr: 1.00
IntFile : events.e

Method : Q:\SVOA\TPH GC2\METHODS\8100FDT.M (Chemstation Integrator)
Title : ELEMENT ID: 0502007
Last Update : Sat May 02 12:03:04 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	C9	36.930	39.916 E3	-8.1	110	0.00
2	C10	37.786	41.195 E3	-9.0	110	0.00
3	C12	37.844	42.596 E3	-12.6	110	-0.01
4	C14	39.146	44.234 E3	-13.0	108	-0.02
5	C16	41.216	45.705 E3	-10.9	108	-0.02
6	C18	42.726	46.454 E3	-8.7	107	-0.02
7	C19	43.774	46.453 E3	-6.1	106	-0.03
8	C20	43.804	46.774 E3	-6.8	106	-0.02
9	C22	44.757	47.522 E3	-6.2	105	-0.03
10	C24	44.106	47.085 E3	-6.8	105	-0.03
11	C26	44.904	48.062 E3	-7.0	105	-0.03
12	C28	44.478	48.129 E3	-8.2	106	-0.03
13	C30	43.582	48.250 E3	-10.7	106	-0.03
14	C36	31.621	46.343 E3	-46.6#	114	-0.04
15 S	O-Terphenyl	47.832	51.031 E3	-6.7	107	-0.03
16 H	C9-C36	48.989	47.820 E3	2.4	109	0.00

AVG RF = 41.19
+/-20% = 32.952-49.428 ALL WITHIN

Evaluate Continuing Calibration Report - Not Founds

Data File : Q:\SVOA\TPH GC2\DATA\052009\G2F07065.D Vial: 99
Acq On : 20 May 2009 14:07 Operator: ML
Sample : TPH 50 Inst : GC2
Misc : Multiplr: 1.00
IntFile : events.e

Method : Q:\SVOA\TPH GC2\METHODS\8100FDT.M (Chemstation Integrator)
Title : ELEMENT ID: 0502007
Last Update : Sat May 02 12:03:04 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
17 H	C10-C28	46.170	0.000 E3	100.0#	0#	-11.78#

(#) = Out of Range SPCC's out = 0 CCC's out = 0
G2F06829.D 8100FDT.M Thu May 21 06:21:05 2009

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\TPH GC2\DATA\052109\G2F07088.D Vial: 99
Acq On : 21 May 2009 07:35 Operator: ML
Sample : TPH 50 Inst : GC2
Misc : Multiplr: 1.00
IntFile : events.e

Method : Q:\SVOA\TPH GC2\METHODS\8100FDT.M (Chemstation Integrator)
Title : ELEMENT ID: 0502007
Last Update : Sat May 02 12:03:04 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	C9	36.930	36.152 E3	2.1	99	0.00
2	C10	37.786	37.399 E3	1.0	100	-0.01
3	C12	37.844	38.780 E3	-2.5	100	-0.02
4	C14	39.146	40.302 E3	-3.0	99	-0.03
5	C16	41.216	41.553 E3	-0.8	98	-0.03
6	C18	42.726	42.282 E3	1.0	97	-0.03
7	C19	43.774	42.293 E3	3.4	96	-0.04
8	C20	43.804	42.450 E3	3.1	96	-0.03
9	C22	44.757	43.068 E3	3.8	96	-0.04
10	C24	44.106	42.871 E3	2.8	96	-0.04
11	C26	44.904	43.654 E3	2.8	96	-0.04
12	C28	44.478	43.680 E3	1.8	96	-0.04
13	C30	43.582	43.721 E3	-0.3	96	-0.04
14	C36	31.621	41.336 E3	-30.7#	102	-0.05
15 S	O-Terphenyl	47.832	46.280 E3	3.2	97	-0.04
16 H	C9-C36	48.989	43.361 E3	11.5	99	0.00

AVG RF = 41.19
+/-20% = 32.952-49.428 ALL WITHIN

Evaluate Continuing Calibration Report - Not Founds

Data File : Q:\SVOA\TPH GC2\DATA\052109\G2F07088.D Vial: 99
Acq On : 21 May 2009 07:35 Operator: ML
Sample : TPH 50 Inst : GC2
Misc : Multiplr: 1.00
IntFile : events.e

Method : Q:\SVOA\TPH GC2\METHODS\8100FDT.M (Chemstation Integrator)
Title : ELEMENT ID: 0502007
Last Update : Sat May 02 12:03:04 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
17 H	C10-C28	46.170	0.000 E3	100.0#	0#	-11.78#

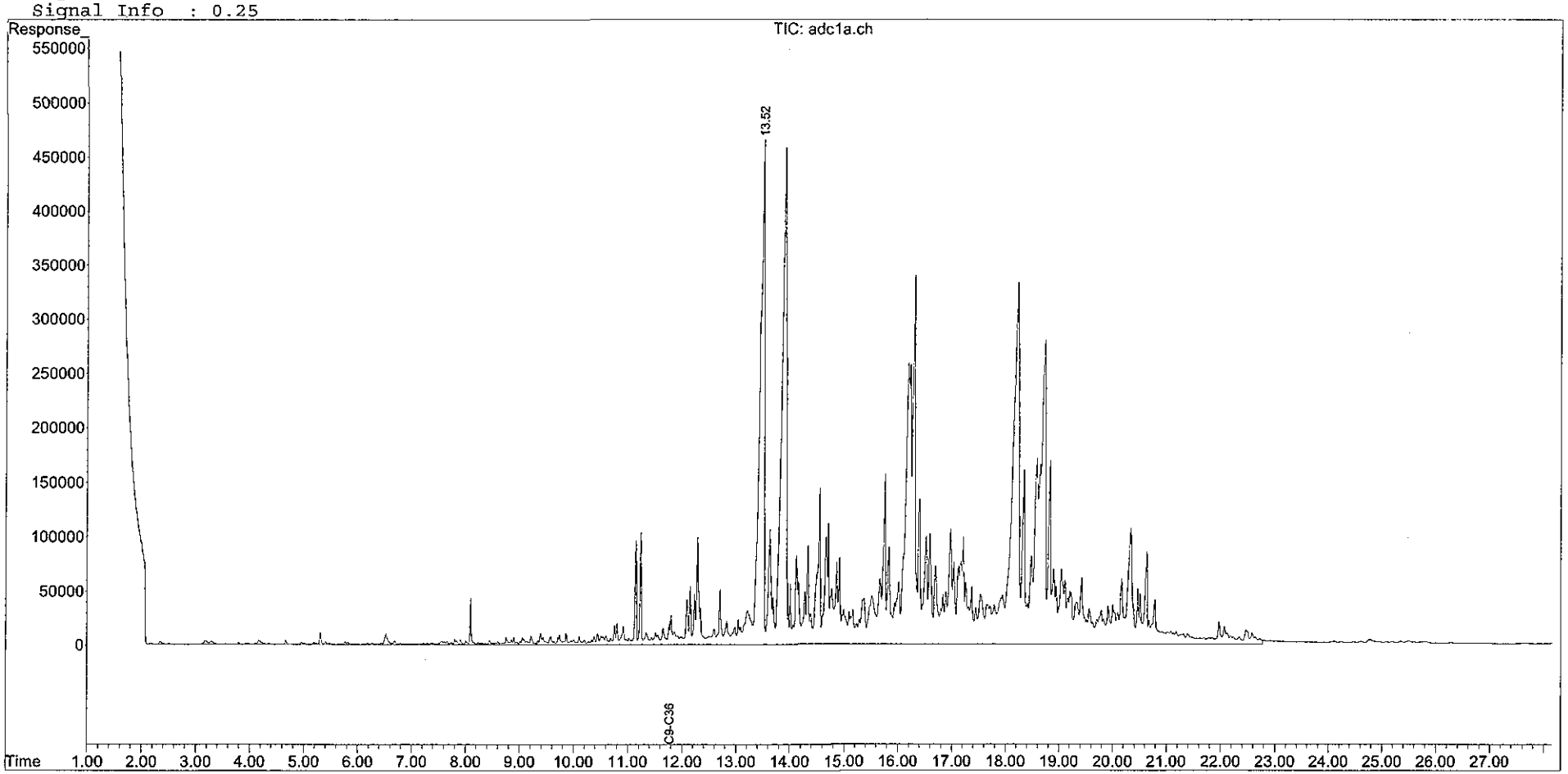
(#) = Out of Range SPCC's out = 0 CCC's out = 0
G2F06829.D 8100FDT.M Thu May 21 11:12:48 2009

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\tph gc2\Data\052109\G2F07091.D Vial: 2
Acq On : 21 May 2009 09:18 Operator: ML
Sample : 0905219-08 10 Inst : GC2
Misc : 10 Multiplr: 1.00
IntFile : events.e
Quant Time: May 21 10:17 2009 Quant Results File: 8100FDT.RES

Quant Method : Q:\SVOA\TPH GC2\METHODS\8100FDT.M (Chemstation Integrator)
Title : ELEMENT ID: 0502007
Last Update : Sat May 02 12:03:04 2009
Response via : Multiple Level Calibration
DataAcq Meth : GC2.MTH

Volume Inj. : 1 ul
Signal Phase : RTX-5MS
Signal Info : 0.25

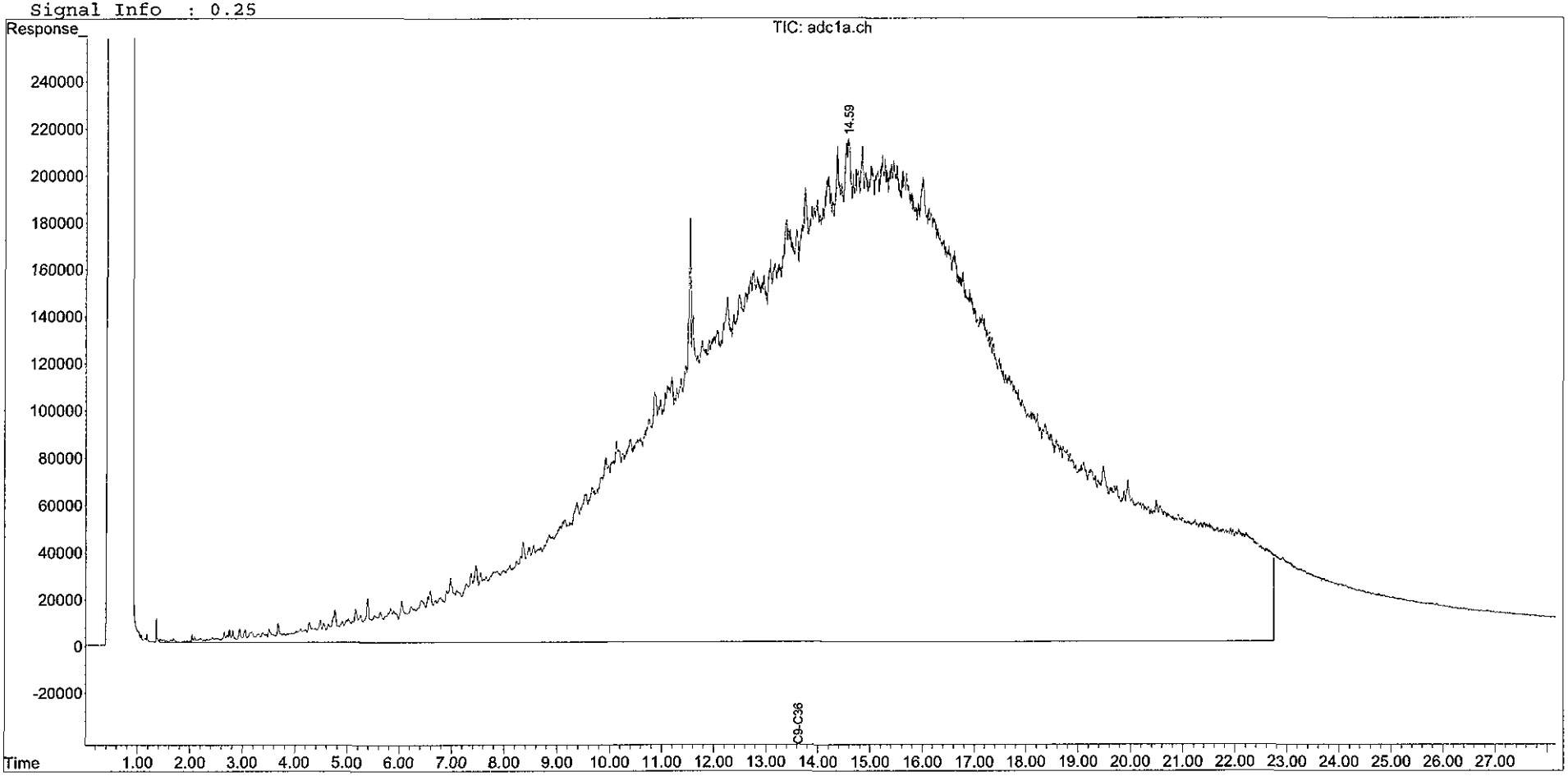


Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\TPH GC2\DATA\052009\G2R05296.D Vial: 63
Acq On : 20 May 2009 22:05 Operator: ML
Sample : 0905219-11 10 Inst : GC2
Misc : 10 Multiplr: 1.00
IntFile : events.e
Quant Time: May 21 7:12 2009 Quant Results File: 8100RCG.RES

Quant Method : Q:\SVOA\TPH GC2\METHODS\8100RCG.M (Chemstation Integrator)
Title : ELEMENT ID: 0502007
Last Update : Sat May 02 12:58:58 2009
Response via : Multiple Level Calibration
DataAcq Meth : GC2.MTH

Volume Inj. : 1 ul
Signal Phase : RTX-5MS
Signal Info : 0.25

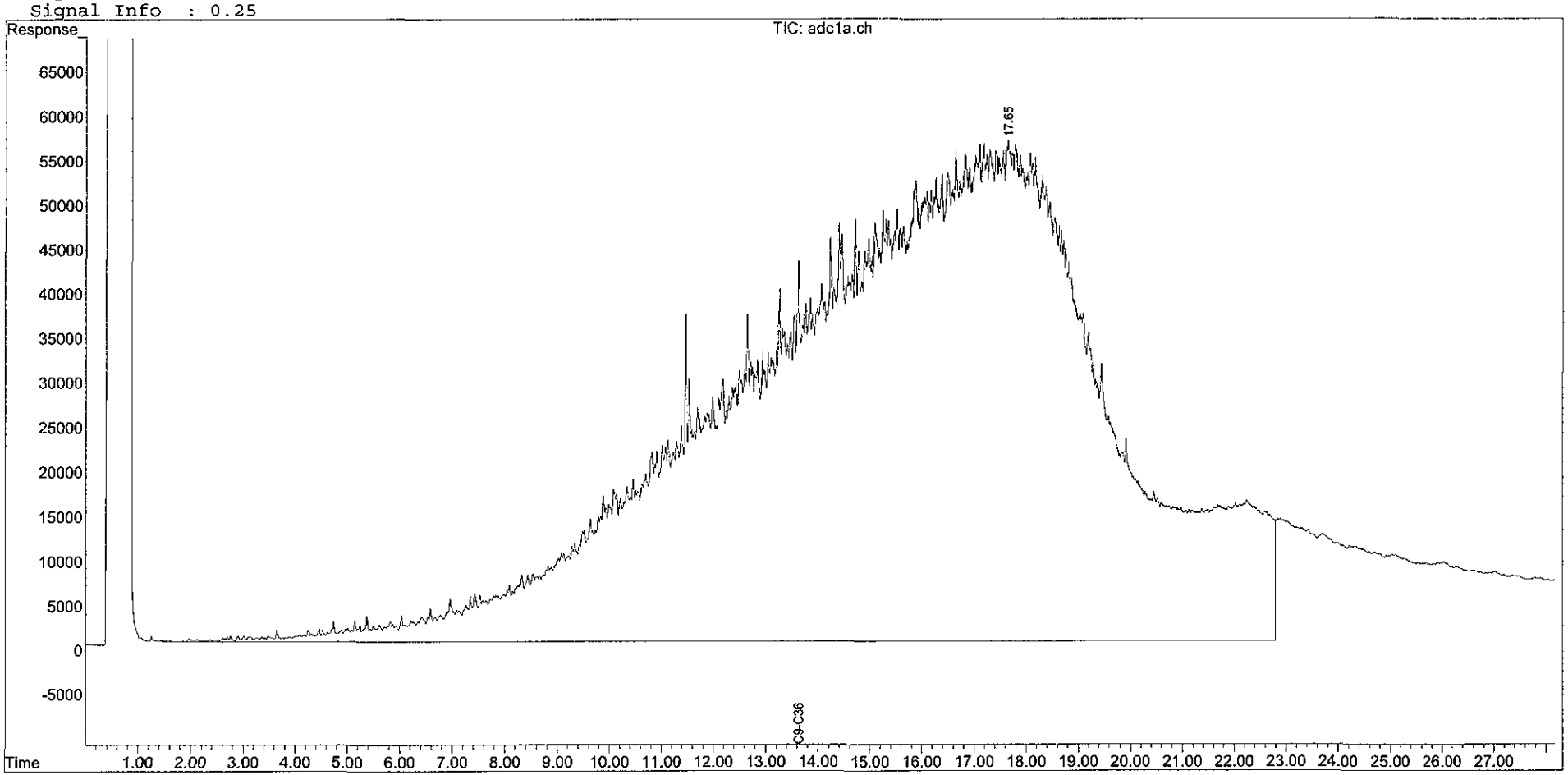


Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\TPH GC2\DATA\052009\G2R05297.D Vial: 64
Acq On : 20 May 2009 22:39 Operator: ML
Sample : 0905219-12 10 Inst : GC2
Misc : 10 Multiplr: 1.00
IntFile : events.e
Quant Time: May 21 7:13 2009 Quant Results File: 8100RCG.RES

Quant Method : Q:\SVOA\TPH GC2\METHODS\8100RCG.M (Chemstation Integrator)
Title : ELEMENT ID: 0502007
Last Update : Sat May 02 12:58:58 2009
Response via : Multiple Level Calibration
DataAcq Meth : GC2.MTH

Volume Inj. : 1 ul
Signal Phase : RTX-5MS
Signal Info : 0.25



CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill ESS Laboratory Work Order: 0905219

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution is present).
SD	Surrogate recovery(ies) diluted below the MRL.
S+	Surrogate recovery(ies) above upper control limit.
M-	Matrix Spike recovery is below lower control limit.
D+	Relative percent difference for duplicate is outside of criteria.
D	Diluted.
C-	Continuing Calibration recovery is below lower control limit.
B-	Blank Spike recovery is below lower control limit.
4	VOA sample could not be run as a low level analysis due to sample matrix.
ND	Analyte NOT DETECTED above the detection limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill ESS Laboratory Work Order: 0905219

ESS LABORATORY CERTIFICATIONS

U.S. Army Corps of Engineers
Soil and Water

Rhode Island: A-179
Potable and Non Potable Water
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut: PH-0750
Potable and Non Potable Water, Solid and Hazardous Waste
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine: RI002
Potable and Non Potable Water
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts: M-RI002
Potable and Non Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited): 242405
Potable and Non PotableWater
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited): 11313
Potable and Non Potable Water, Solid and Hazardous Waste
http://www.wadsworth.org/labcert/elap/comm.html

United States Department of Agriculture
Soil Permit: S-54210

New Jersey (NELAP accredited): RI002
Potable and Non Potable Water, Solid and Hazardous Waste
http://www.nj.gov/dep/oqa/certlabs.htm

Maryland: 301
Potable Water
http://www.mde.state.md.us/assets/document/wsp_labs

South Carolina: 78003
Volatile Organic Compounds in Potable Water

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time ✓ Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
MA RI (CT) NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 09052219

Electronic Deliverable ✓ Yes ___ No
Format: Excel ✓ Access ___ PDF ✓ Other _____

Co. Name: AES Inc.
Project #:
Project Name (20 Char. or less): Baltic Mill
Contact Person: Mark D.
Address: 90 Madison St. Ste 605
City: Worcester State: MA Zip: 01608
PO#: m.deluger@advancedenvironmental.net
Telephone #: 508-363-4882
Fax #: 508-363-4883
Email Address:

Write Required Analysis

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	PP13 Metals	VOCs 8260	ETPH	PAHs	Total Cyanide
1	5/18	9:45		V	S	TP-29 3-5'		5	G	X	X	X	X	
2	↓	10:15		V	S	TP-28 5.5'		5	G	X	X	X	X	
3	↓	10:55		V	S	TP-25 5'		1	G	X		X	X	
4	↓	11:20		V	S	TP-27 comp.		1	G	X		X	X	
5	↓	12:00		V	S	TP-30 4-4.5'		6	G	X	X	X	X	X
6	↓	12:25		V	S	TP-32 comp		2	G	X		X	X	X
7	↓	12:55		V	S	TP-33 6-7'		6	G	X	X	X	X	X
8	↓	13:05		V	S	TP-34 6-7'		6	G	X	X	X	X	X
9	↓	13:15		V	S	TP-31 comp		1	G	X		X	X	

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 5.2°C

Internal Use Only
[ ] Pickup
[ ] Technicians _____

Preservation Code: 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: MwdB

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	5/18 14:20	MS Dean	5/18/09 14:20	[signature]	5/18/09 16:10	[signature]	5/18/09 16:10
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Mel S Dean	5/18/9 1500	[signature]	5/18/09 15:00				

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time ___ Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____

Reporting Limits

ESS LAB PROJECT ID: 0905219

State where samples were collected from:
MA RI (CT) NH NJ NY ME Other _____

Electronic Deliverable X Yes ___ No

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Format: Excel ✓ Access ___ PDF X Other _____

Co. Name	Project #	Project Name (20 Char. or less)
Advanced Environmental Sol		Baltic Mill

Contact Person	Address
Mark Deuger	90 Madison St, Ste 605

City	State	Zip	PO#
Worcester	MA	01608	

Telephone #	Fax #	Email Address
~~97~~ 508-363-4882	508-363-4883	m.deuger@advancedenvironmental

Write Required Analysis

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	VOCs by 8260 LL	ETPH	PAHs	PP metals (13)										
10 ~~TP-02 8ft~~	5-18-09	1000		X	S	TP-02 (8ft)		5	G	X	X	X	X										
11	5-18-09	1200		X	S	TP-004 (8ft)		5	G	X	X	X	X										
12	5-18-09	1200		X	S	TP-04 (8ft)		5	G	X	X	X	X										
13	5-18-09	1430		X	S	TP-06 (12ft)		5	G	X	X												
14	5-18-09	1430		X	S	TP-06 (6ft)		1	G			X	X										

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No

Seals Intact ___ Yes ___ No NA: ✓

Cooler Temp: 5.2°c

Internal Use Only
[ ] Pickup
[ ] Technicians _____

Preservation Code: 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: MSD

Comments: Expect High VOCs PID: up to 81 ppmv

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Mark S. Deuger	5/18/09 1500	Ralph Lauch	5/18/09 15:00	Ralph Lauch	5/18/09 16:10	[illegible]	5/18/09 16:10
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 B

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

PROJECT NARRATIVE

Mark Deuger
Advanced Environmental Solutions, Inc.
90 Madison Street, Suite 605
Worcester, MA 01608

RE: Baltic Mill
ESS Laboratory Work Order Number: 0905249

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this Project Narrative, the entire report has been paginated. The ESS Laboratory Certifications sheet is the final report page. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results. All ICP Metals were analyzed using the established linear dynamic range to determine acceptable analytical results.

ESS Laboratory certifies that the test results meet the requirements of NELAC, except where noted within this project narrative.

To achieve Reasonable Confidence Protocols (RCP) compliance for Connecticut data, ESS laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All RCP requirements have been achieved unless noted in the project narrative.

Question 5: Each method has been set-up in the laboratory to reach required RCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes (ie for GWPC samples, 1,2-Dibromoethane regulatory levels will not be met by VOA 8260. If this is a contaminant of concern Method 8011 will need to be used.). The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

Sample Receipt
The following sample(s) were received on May 19, 2009 for the analyses specified on the enclosed Chain of Custody Record.

Question 6: All samples for SVOA and Metals were analyzed for a subset of the required RCP list per the client's request.

Laboratory ID	Matrix	Client Sample ID
0905249-01	Soil	TP-07 14Ft
0905249-02	Soil	TP-08 13Ft
0905249-03	Soil	TP-08 4Ft
0905249-04	Soil	Trip Blank
0905249-05	Soil	TP-11 4Ft
0905249-06	Soil	TP-12 2Ft
0905249-07	Soil	TP-15 2Ft
0905249-08	Soil	TP-16 2Ft
0905249-09	Soil	TP-13 1Ft
0905249-10	Soil	TP-14 2 Ft
0905249-11	Soil	TP-14 8 Ft
0905249-12	Soil	TP-17 5 Ft
0905249-13	Soil	TP-140 2 Ft

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill ESS Laboratory Work Order: 0905249

PROJECT NARRATIVE

3050B/6000/7000 Total Metals

BE92013-DUP1	**Relative percent difference for duplicate is outside of criteria.**
	Lead
BE92013-MS1	**Matrix Spike recovery is above upper control limit.**
	Zinc
BE92013-MS1	**Matrix Spike recovery is below lower control limit.**
	Antimony, Chromium, Lead
BE92013-MS2	**Matrix Spike recovery is below lower control limit.**
	Antimony
BE92013-MS3	**Matrix Spike recovery is below lower control limit.**
	Antimony

5035/8260B Volatile Organic Compounds / Low Level

BE92112-BSD1	**Blank Spike recovery is below lower control limit.**
	Diethyl Ether

5035/8260B Volatile Organic Compounds / Methanol

0905249-01	**VOA sample could not be run by the low level method due to matrix interferences.**

8100M Extractable Total Petroleum Hydrocarbons

0905249-01	**Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results.**
BE91932-MS1	**Matrix Spike recovery is below lower control limit.**
	Total Petroleum Hydrocarbons
BE91932-MS1	**Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results.**
BE91932-MSD1	**Matrix Spike recovery is below lower control limit.**
	Total Petroleum Hydrocarbons
BE91932-MSD1	**Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results.**

8270C Polynuclear Aromatic Hydrocarbons

0905249-01	**Surrogate recovery(ies) below lower control limit.**

No other observations noted.

End of Project Narrative.

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905249

Laboratory Analysis
QA/QC Certification Form

Project Number: **N/A**
Sampling Date(s): **5/19/2009**
Laboratory Sample ID(s): **0905249-01 through 0905249-13**

List RCP Methods Used	(X) 8260B	( ) 8151A	(X) ETPH	(X) 6010B	(X) 7470A/1A
Other: _____	(X) 8270C	( ) 8081A	( ) VPH	( ) 6020	( ) 9014M
_____	( ) 8082	( ) 8021B	( ) EPH	(X) 7000 S	( ) 7196A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria failing outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	Yes No
1A	Were the method specific preservation and holding time requirements met?	Yes No
1B	***VPH and EPH Methods only:*** Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	Yes No N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes No
3	Were samples received at an appropriate temperature (<6º Cº)?	Yes No N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	Yes No Yes No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence." This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Laurel Stoddard _____ Position: Laboratory Director

Printed Name: Laurel Stoddard _____ Date: May 27, 2009

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-07 14Ft
Date Sampled: 05/19/09 09:00
Percent Solids: 89

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-01
Sample Matrix: Soil

3050B/6000/7000 Total Metals

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.5	6010B	27	1	SVD	05/20/09	1.74	100
Arsenic	ND	mg/kg dry	3.2	6010B	10	1	SVD	05/20/09	1.74	100
Beryllium	**0.11**	mg/kg dry	0.07	6010B	2	1	SVD	05/20/09	1.74	100
Cadmium	ND	mg/kg dry	0.65	6010B	34	1	SVD	05/20/09	1.74	100
Chromium	**22.2**	mg/kg dry	1.3	6010B	3900	1	SVD	05/20/09	1.74	100
Copper	**21.3**	mg/kg dry	1.3	6010B	2500	1	SVD	05/20/09	1.74	100
Lead	ND	mg/kg dry	6.5	6010B	400	1	SVD	05/20/09	1.74	100
Mercury	ND	mg/kg dry	0.033	7471A	20	1	KAB	05/21/09	0.68	40
Nickel	**18.1**	mg/kg dry	3.2	6010B	1400	1	SVD	05/20/09	1.74	100
Selenium	ND	mg/kg dry	6.5	6010B	340	1	SVD	05/20/09	1.74	100
Silver	ND	mg/kg dry	0.65	6010B	340	1	SVD	05/20/09	1.74	100
Thallium	ND	mg/kg dry	1.60	7841	5.4	5	SVD	05/21/09	1.74	100
Zinc	**28.1**	mg/kg dry	3.2	6010B	20000	1	SVD	05/20/09	1.74	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-07 14Ft
Date Sampled: 05/19/09 09:00
Percent Solids: 89
Initial Volume: 5.4
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-01
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg dry	0.324	24	1	05/20/09
1,1,1-Trichloroethane	ND	mg/kg dry	0.162	500	1	05/20/09
1,1,2,2-Tetrachloroethane	ND	mg/kg dry	0.162	3.1	1	05/20/09
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg dry	0.162		1	05/20/09
1,1,2-Trichloroethane	ND	mg/kg dry	0.162	11	1	05/20/09
1,1-Dichloroethane	ND	mg/kg dry	0.162	500	1	05/20/09
1,1-Dichloroethene	ND	mg/kg dry	0.162	1	1	05/20/09
1,1-Dichloropropene	ND	mg/kg dry	0.162		1	05/20/09
1,2,3-Trichlorobenzene	ND	mg/kg dry	0.162		1	05/20/09
1,2,3-Trichloropropane	ND	mg/kg dry	0.162		1	05/20/09
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.162	680	1	05/20/09
1,2,4-Trimethylbenzene	ND	mg/kg dry	0.162	500	1	05/20/09
1,2-Dibromo-3-Chloropropane	ND	mg/kg dry	0.973	0.44	1	05/20/09
1,2-Dibromoethane	ND	mg/kg dry	0.162	0.007	1	05/20/09
1,2-Dichlorobenzene	ND	mg/kg dry	0.162	500	1	05/20/09
1,2-Dichloroethane	ND	mg/kg dry	0.162	6.7	1	05/20/09
1,2-Dichloropropane	ND	mg/kg dry	0.162	9	1	05/20/09
1,3,5-Trimethylbenzene	ND	mg/kg dry	0.162	500	1	05/20/09
1,3-Dichlorobenzene	ND	mg/kg dry	0.162	500	1	05/20/09
1,3-Dichloropropane	ND	mg/kg dry	0.162		1	05/20/09
1,4-Dichlorobenzene	ND	mg/kg dry	0.162	26	1	05/20/09
1,4-Dioxane - Screen	ND	mg/kg dry	16.2		1	05/20/09
2,2-Dichloropropane	ND	mg/kg dry	0.324		1	05/20/09
2-Butanone	ND	mg/kg dry	4.06	500	1	05/20/09
2-Chlorotoluene	ND	mg/kg dry	0.162	500	1	05/20/09
2-Hexanone	ND	mg/kg dry	1.62		1	05/20/09
4-Chlorotoluene	ND	mg/kg dry	0.162	500	1	05/20/09
4-Isopropyltoluene	**0.266**	mg/kg dry	0.162	500	1	05/20/09
4-Methyl-2-Pentanone	ND	mg/kg dry	1.62	500	1	05/20/09
Acetone	ND	mg/kg dry	4.06	500	1	05/20/09
Acrylonitrile	ND	mg/kg dry	1.30	1.1	1	05/20/09
Benzene	ND	mg/kg dry	0.162	21	1	05/20/09
Bromobenzene	ND	mg/kg dry	0.162		1	05/20/09
Bromochloromethane	ND	mg/kg dry	0.162		1	05/20/09
Bromodichloromethane	ND	mg/kg dry	0.162	9.9	1	05/20/09

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-07 14Ft
Date Sampled: 05/19/09 09:00
Percent Solids: 89
Initial Volume: 5.4
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-01
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Bromoform	ND	mg/kg dry	0.162	78	1	05/20/09
Bromomethane	ND	mg/kg dry	0.324	95	1	05/20/09
Carbon Disulfide	ND	mg/kg dry	0.162	500	1	05/20/09
Carbon Tetrachloride	ND	mg/kg dry	0.162	4.7	1	05/20/09
Chlorobenzene	ND	mg/kg dry	0.162	500	1	05/20/09
Chloroethane	ND	mg/kg dry	0.324		1	05/20/09
Chloroform	ND	mg/kg dry	0.162	100	1	05/20/09
Chloromethane	ND	mg/kg dry	0.324	47	1	05/20/09
cis-1,2-Dichloroethene	ND	mg/kg dry	0.162	500	1	05/20/09
cis-1,3-Dichloropropene	ND	mg/kg dry	0.162	3.4	1	05/20/09
Dibromochloromethane	ND	mg/kg dry	0.162	7.3	1	05/20/09
Dibromomethane	ND	mg/kg dry	0.162		1	05/20/09
Dichlorodifluoromethane	ND	mg/kg dry	0.162		1	05/20/09
Diethyl Ether	ND	mg/kg dry	0.162		1	05/20/09
Di-isopropyl ether	ND	mg/kg dry	0.162		1	05/20/09
Ethyl tertiary-butyl ether	ND	mg/kg dry	0.162		1	05/20/09
Ethylbenzene	**0.860**	mg/kg dry	0.162	500	1	05/20/09
Hexachlorobutadiene	ND	mg/kg dry	0.162	7.9	1	05/20/09
Isopropylbenzene	**0.646**	mg/kg dry	0.162	500	1	05/20/09
Methyl tert-Butyl Ether	ND	mg/kg dry	0.162	500	1	05/20/09
Methylene Chloride	ND	mg/kg dry	0.811	82	1	05/20/09
Naphthalene	**21.9**	mg/kg dry	0.162	1000	1	05/20/09
n-Butylbenzene	**1.56**	mg/kg dry	0.162	500	1	05/20/09
n-Propylbenzene	**1.12**	mg/kg dry	0.162	500	1	05/20/09
sec-Butylbenzene	**0.996**	mg/kg dry	0.162	500	1	05/20/09
Styrene	ND	mg/kg dry	0.162	500	1	05/20/09
tert-Butylbenzene	ND	mg/kg dry	0.162	500	1	05/20/09
Tertiary-amyl methyl ether	ND	mg/kg dry	0.162		1	05/20/09
Tetrachloroethene	ND	mg/kg dry	0.162	12	1	05/20/09
Tetrahydrofuran	ND	mg/kg dry	1.62		1	05/20/09
Toluene	ND	mg/kg dry	0.162	500	1	05/20/09
trans-1,2-Dichloroethene	ND	mg/kg dry	0.162	500	1	05/20/09
trans-1,3-Dichloropropene	ND	mg/kg dry	0.162	3.4	1	05/20/09
Trans-1,4-Dichloro-2-Butene	ND	mg/kg dry	1.62		1	05/20/09
Trichloroethene	ND	mg/kg dry	0.162	56	1	05/20/09
Trichlorofluoromethane	ND	mg/kg dry	0.162	500	1	05/20/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-07 14Ft
Date Sampled: 05/19/09 09:00
Percent Solids: 89
Initial Volume: 5.4
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-01
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Vinyl Chloride	ND	mg/kg dry	0.162	0.32	1	05/20/09
Xylene O	ND	mg/kg dry	0.162	500	1	05/20/09
Xylene P,M	ND	mg/kg dry	0.324	500	1	05/20/09
Xylenes (Total)	ND	mg/kg dry	0.487	500	1	05/20/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*88 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*85 %*		*70-130*
Surrogate: Dibromofluoromethane	*97 %*		*70-130*
Surrogate: Toluene-d8	*95 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-07 14Ft
Date Sampled: 05/19/09 09:00
Percent Solids: 89
Initial Volume: 14.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-01
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/21/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	**39.7**	mg/kg dry	7.79	474	10	05/22/09
Acenaphthene	ND	mg/kg dry	7.79	1000	10	05/22/09
Acenaphthylene	ND	mg/kg dry	7.79	1000	10	05/22/09
Anthracene	ND	mg/kg dry	7.79	1000	10	05/22/09
Benzo(a)anthracene	ND	mg/kg dry	7.79	1	10	05/22/09
Benzo(a)pyrene	ND	mg/kg dry	3.91	1	10	05/22/09
Benzo(b)fluoranthene	ND	mg/kg dry	7.79	1	10	05/22/09
Benzo(g,h,i)perylene	ND	mg/kg dry	7.79	1000	10	05/22/09
Benzo(k)fluoranthene	ND	mg/kg dry	7.79	8.4	10	05/22/09
Chrysene	ND	mg/kg dry	3.91	84	10	05/22/09
Dibenzo(a,h)Anthracene	ND	mg/kg dry	3.91	0.33	10	05/22/09
Fluoranthene	ND	mg/kg dry	7.79	1000	10	05/22/09
Fluorene	ND	mg/kg dry	7.79	1000	10	05/22/09
Indeno(1,2,3-cd)Pyrene	ND	mg/kg dry	7.79	1	10	05/22/09
Naphthalene	**14.8**	mg/kg dry	7.79	1000	10	05/22/09
Phenanthrene	**15.7**	mg/kg dry	7.79	1000	10	05/22/09
Pyrene	**11.4**	mg/kg dry	7.79	1000	10	05/22/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*100 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*115 %*		*30-130*
Surrogate: Nitrobenzene-d5	*%*	*S-*	*30-130*
Surrogate: p-Terphenyl-d14	*102 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-07 14Ft
Date Sampled: 05/19/09 09:00
Percent Solids: 89
Initial Volume: 20.6
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-01
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	**10200**	mg/kg dry	218	500	10	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	%	SC	50-150

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-08 13Ft
Date Sampled: 05/19/09 10:00
Percent Solids: 96
Initial Volume: 7.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-02
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg dry	0.0037	24	1	05/21/09
1,1,1-Trichloroethane	ND	mg/kg dry	0.0037	500	1	05/21/09
1,1,2,2-Tetrachloroethane	ND	mg/kg dry	0.0037	3.1	1	05/21/09
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg dry	0.0037		1	05/21/09
1,1,2-Trichloroethane	ND	mg/kg dry	0.0037	11	1	05/21/09
1,1-Dichloroethane	ND	mg/kg dry	0.0037	500	1	05/21/09
1,1-Dichloroethene	ND	mg/kg dry	0.0037	1	1	05/21/09
1,1-Dichloropropene	ND	mg/kg dry	0.0037		1	05/21/09
1,2,3-Trichlorobenzene	ND	mg/kg dry	0.0037		1	05/21/09
1,2,3-Trichloropropane	ND	mg/kg dry	0.0037		1	05/21/09
1,2,4-Trichlorobenzene	ND	mg/kg dry	0.0037	680	1	05/21/09
1,2,4-Trimethylbenzene	ND	mg/kg dry	0.0037	500	1	05/21/09
1,2-Dibromo-3-Chloropropane	ND	mg/kg dry	0.0037	0.44	1	05/21/09
1,2-Dibromoethane	ND	mg/kg dry	0.0037	0.007	1	05/21/09
1,2-Dichlorobenzene	ND	mg/kg dry	0.0037	500	1	05/21/09
1,2-Dichloroethane	ND	mg/kg dry	0.0037	6.7	1	05/21/09
1,2-Dichloropropane	ND	mg/kg dry	0.0037	9	1	05/21/09
1,3,5-Trimethylbenzene	ND	mg/kg dry	0.0037	500	1	05/21/09
1,3-Dichlorobenzene	ND	mg/kg dry	0.0037	500	1	05/21/09
1,3-Dichloropropane	ND	mg/kg dry	0.0037		1	05/21/09
1,4-Dichlorobenzene	ND	mg/kg dry	0.0037	26	1	05/21/09
1,4-Dioxane	ND	mg/kg dry	0.0734	0.2	1	05/21/09
2,2-Dichloropropane	ND	mg/kg dry	0.0037		1	05/21/09
2-Butanone	ND	mg/kg dry	0.0367	500	1	05/21/09
2-Chlorotoluene	ND	mg/kg dry	0.0037	500	1	05/21/09
2-Hexanone	ND	mg/kg dry	0.0367		1	05/21/09
4-Chlorotoluene	ND	mg/kg dry	0.0037	500	1	05/21/09
4-Isopropyltoluene	ND	mg/kg dry	0.0037	500	1	05/21/09
4-Methyl-2-Pentanone	ND	mg/kg dry	0.0367	500	1	05/21/09
Acetone	ND	mg/kg dry	0.0367	500	1	05/21/09
Acrylonitrile	ND	mg/kg dry	0.0037	1.1	1	05/21/09
Benzene	ND	mg/kg dry	0.0037	21	1	05/21/09
Bromobenzene	ND	mg/kg dry	0.0037		1	05/21/09
Bromochloromethane	ND	mg/kg dry	0.0037		1	05/21/09
Bromodichloromethane	ND	mg/kg dry	0.0037	9.9	1	05/21/09

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-08 13Ft
Date Sampled: 05/19/09 10:00
Percent Solids: 96
Initial Volume: 7.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-02
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromoform	ND	mg/kg dry	0.0037	78	1	05/21/09
Bromomethane	ND	mg/kg dry	0.0073	95	1	05/21/09
Carbon Disulfide	ND	mg/kg dry	0.0037	500	1	05/21/09
Carbon Tetrachloride	ND	mg/kg dry	0.0037	4.7	1	05/21/09
Chlorobenzene	ND	mg/kg dry	0.0037	500	1	05/21/09
Chloroethane	ND	mg/kg dry	0.0073		1	05/21/09
Chloroform	ND	mg/kg dry	0.0037	100	1	05/21/09
Chloromethane	ND	mg/kg dry	0.0073	47	1	05/21/09
cis-1,2-Dichloroethene	ND	mg/kg dry	0.0037	500	1	05/21/09
cis-1,3-Dichloropropene	ND	mg/kg dry	0.0037	3.4	1	05/21/09
Dibromochloromethane	ND	mg/kg dry	0.0037	7.3	1	05/21/09
Dibromomethane	ND	mg/kg dry	0.0037		1	05/21/09
Dichlorodifluoromethane	ND	mg/kg dry	0.0073		1	05/21/09
Diethyl Ether	ND	mg/kg dry	0.0037		1	05/21/09
Di-isopropyl ether	ND	mg/kg dry	0.0037		1	05/21/09
Ethyl tertiary-butyl ether	ND	mg/kg dry	0.0037		1	05/21/09
Ethylbenzene	ND	mg/kg dry	0.0037	500	1	05/21/09
Hexachlorobutadiene	ND	mg/kg dry	0.0037	7.9	1	05/21/09
Isopropylbenzene	ND	mg/kg dry	0.0037	500	1	05/21/09
Methyl tert-Butyl Ether	ND	mg/kg dry	0.0037	500	1	05/21/09
Methylene Chloride	ND	mg/kg dry	0.0183	82	1	05/21/09
Naphthalene	ND	mg/kg dry	0.0037	1000	1	05/21/09
n-Butylbenzene	ND	mg/kg dry	0.0037	500	1	05/21/09
n-Propylbenzene	ND	mg/kg dry	0.0037	500	1	05/21/09
sec-Butylbenzene	ND	mg/kg dry	0.0037	500	1	05/21/09
Styrene	ND	mg/kg dry	0.0037	500	1	05/21/09
tert-Butylbenzene	ND	mg/kg dry	0.0037	500	1	05/21/09
Tertiary-amyl methyl ether	ND	mg/kg dry	0.0037		1	05/21/09
Tetrachloroethene	ND	mg/kg dry	0.0037	12	1	05/21/09
Tetrahydrofuran	ND	mg/kg dry	0.0037		1	05/21/09
Toluene	ND	mg/kg dry	0.0037	500	1	05/21/09
trans-1,2-Dichloroethene	ND	mg/kg dry	0.0037	500	1	05/21/09
trans-1,3-Dichloropropene	ND	mg/kg dry	0.0037	3.4	1	05/21/09
Trans-1,4-Dichloro-2-Butene	ND	mg/kg dry	0.0037		1	05/21/09
Trichloroethene	ND	mg/kg dry	0.0037	56	1	05/21/09
Trichlorofluoromethane	ND	mg/kg dry	0.0037	500	1	05/21/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-08 13Ft
Date Sampled: 05/19/09 10:00
Percent Solids: 96
Initial Volume: 7.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-02
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Vinyl Chloride	ND	mg/kg dry	0.0073	0.32	1	05/21/09
Xylene O	ND	mg/kg dry	0.0037	500	1	05/21/09
Xylene P,M	ND	mg/kg dry	0.0073	500	1	05/21/09
Xylenes (Total)	ND	mg/kg dry	0.0110	500	0	05/21/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*102 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*92 %*		*70-130*
Surrogate: Dibromofluoromethane	*99 %*		*70-130*
Surrogate: Toluene-d8	*96 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-08 13Ft
Date Sampled: 05/19/09 10:00
Percent Solids: 96
Initial Volume: 21
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-02
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	ND	mg/kg dry	19.8	500	1	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*98 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-08 4Ft
Date Sampled: 05/19/09 10:00
Percent Solids: 91

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-03
Sample Matrix: Soil

3050B/6000/7000 Total Metals

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.0	6010B	27	1	SVD	05/20/09	1.82	100
Arsenic	**5.1**	mg/kg dry	3.0	6010B	10	1	SVD	05/20/09	1.82	100
Beryllium	**0.22**	mg/kg dry	0.06	6010B	2	1	SVD	05/20/09	1.82	100
Cadmium	ND	mg/kg dry	0.61	6010B	34	1	SVD	05/20/09	1.82	100
Chromium	**15.2**	mg/kg dry	1.2	6010B	3900	1	SVD	05/20/09	1.82	100
Copper	**9.8**	mg/kg dry	1.2	6010B	2500	1	SVD	05/20/09	1.82	100
Lead	ND	mg/kg dry	6.0	6010B	400	1	SVD	05/20/09	1.82	100
Mercury	ND	mg/kg dry	0.034	7471A	20	1	KAB	05/21/09	0.64	40
Nickel	**10.8**	mg/kg dry	3.0	6010B	1400	1	SVD	05/20/09	1.82	100
Selenium	ND	mg/kg dry	6.0	6010B	340	1	SVD	05/20/09	1.82	100
Silver	ND	mg/kg dry	0.61	6010B	340	1	SVD	05/20/09	1.82	100
Thallium	ND	mg/kg dry	1.49	7841	5.4	5	SVD	05/21/09	1.82	100
Zinc	**12.3**	mg/kg dry	3.0	6010B	20000	1	SVD	05/20/09	1.82	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-08 4Ft
Date Sampled: 05/19/09 10:00
Percent Solids: 91
Initial Volume: 14.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-03
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/21/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	0.379	474	1	05/21/09
Acenaphthene	ND	mg/kg dry	0.379	1000	1	05/21/09
Acenaphthylene	ND	mg/kg dry	0.379	1000	1	05/21/09
Anthracene	ND	mg/kg dry	0.379	1000	1	05/21/09
Benzo(a)anthracene	ND	mg/kg dry	0.379	1	1	05/21/09
Benzo(a)pyrene	ND	mg/kg dry	0.190	1	1	05/21/09
Benzo(b)fluoranthene	ND	mg/kg dry	0.379	1	1	05/21/09
Benzo(g,h,i)perylene	ND	mg/kg dry	0.379	1000	1	05/21/09
Benzo(k)fluoranthene	ND	mg/kg dry	0.379	8.4	1	05/21/09
Chrysene	ND	mg/kg dry	0.190	84	1	05/21/09
Dibenzo(a,h)Anthracene	ND	mg/kg dry	0.190	0.33	1	05/21/09
Fluoranthene	ND	mg/kg dry	0.379	1000	1	05/21/09
Fluorene	ND	mg/kg dry	0.379	1000	1	05/21/09
Indeno(1,2,3-cd)Pyrene	ND	mg/kg dry	0.379	1	1	05/21/09
Naphthalene	ND	mg/kg dry	0.379	1000	1	05/21/09
Phenanthrene	ND	mg/kg dry	0.379	1000	1	05/21/09
Pyrene	ND	mg/kg dry	0.379	1000	1	05/21/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*70 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*78 %*		*30-130*
Surrogate: Nitrobenzene-d5	*66 %*		*30-130*
Surrogate: p-Terphenyl-d14	*88 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: Trip Blank
Date Sampled: 05/19/09 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-04
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	24	1	05/20/09
1,1,1-Trichloroethane	ND	mg/kg	0.0050	500	1	05/20/09
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	3.1	1	05/20/09
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050		1	05/20/09
1,1,2-Trichloroethane	ND	mg/kg	0.0050	11	1	05/20/09
1,1-Dichloroethane	ND	mg/kg	0.0050	500	1	05/20/09
1,1-Dichloroethene	ND	mg/kg	0.0050	1	1	05/20/09
1,1-Dichloropropene	ND	mg/kg	0.0050		1	05/20/09
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050		1	05/20/09
1,2,3-Trichloropropane	ND	mg/kg	0.0050		1	05/20/09
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	680	1	05/20/09
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	500	1	05/20/09
1,2-Dibromo-3-Chloropropane	ND	mg/kg	0.0050	0.44	1	05/20/09
1,2-Dibromoethane	ND	mg/kg	0.0050	0.007	1	05/20/09
1,2-Dichlorobenzene	ND	mg/kg	0.0050	500	1	05/20/09
1,2-Dichloroethane	ND	mg/kg	0.0050	6.7	1	05/20/09
1,2-Dichloropropane	ND	mg/kg	0.0050	9	1	05/20/09
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	500	1	05/20/09
1,3-Dichlorobenzene	ND	mg/kg	0.0050	500	1	05/20/09
1,3-Dichloropropane	ND	mg/kg	0.0050		1	05/20/09
1,4-Dichlorobenzene	ND	mg/kg	0.0050	26	1	05/20/09
2,2-Dichloropropane	ND	mg/kg	0.0050		1	05/20/09
2-Butanone	ND	mg/kg	0.0500	500	1	05/20/09
2-Chlorotoluene	ND	mg/kg	0.0050	500	1	05/20/09
2-Hexanone	ND	mg/kg	0.0500		1	05/20/09
4-Chlorotoluene	ND	mg/kg	0.0050	500	1	05/20/09
4-Isopropyltoluene	ND	mg/kg	0.0050	500	1	05/20/09
4-Methyl-2-Pentanone	ND	mg/kg	0.0500	500	1	05/20/09
Acetone	ND	mg/kg	0.0500	500	1	05/20/09
Acrylonitrile	ND	mg/kg	0.0050	1.1	1	05/20/09
Benzene	ND	mg/kg	0.0050	21	1	05/20/09
Bromobenzene	ND	mg/kg	0.0050		1	05/20/09
Bromochloromethane	ND	mg/kg	0.0050		1	05/20/09
Bromodichloromethane	ND	mg/kg	0.0050	9.9	1	05/20/09
Bromoform	ND	mg/kg	0.0050	78	1	05/20/09

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: Trip Blank
Date Sampled: 05/19/09 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-04
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	mg/kg	0.0100	95	1	05/20/09
Carbon Disulfide	ND	mg/kg	0.0050	500	1	05/20/09
Carbon Tetrachloride	ND	mg/kg	0.0050	4.7	1	05/20/09
Chlorobenzene	ND	mg/kg	0.0050	500	1	05/20/09
Chloroethane	ND	mg/kg	0.0100		1	05/20/09
Chloroform	ND	mg/kg	0.0050	100	1	05/20/09
Chloromethane	ND	mg/kg	0.0100	47	1	05/20/09
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	500	1	05/20/09
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	3.4	1	05/20/09
Dibromochloromethane	ND	mg/kg	0.0050	7.3	1	05/20/09
Dibromomethane	ND	mg/kg	0.0050		1	05/20/09
Dichlorodifluoromethane	ND	mg/kg	0.0100		1	05/20/09
Diethyl Ether	ND	mg/kg	0.0050		1	05/20/09
Di-isopropyl ether	ND	mg/kg	0.0050		1	05/20/09
Ethyl tertiary-butyl ether	ND	mg/kg	0.0050		1	05/20/09
Ethylbenzene	ND	mg/kg	0.0050	500	1	05/20/09
Hexachlorobutadiene	ND	mg/kg	0.0050	7.9	1	05/20/09
Isopropylbenzene	ND	mg/kg	0.0050	500	1	05/20/09
Methyl tert-Butyl Ether	ND	mg/kg	0.0050	500	1	05/20/09
Methylene Chloride	ND	mg/kg	0.0250	82	1	05/20/09
Naphthalene	ND	mg/kg	0.0050	1000	1	05/20/09
n-Butylbenzene	ND	mg/kg	0.0050	500	1	05/20/09
n-Propylbenzene	ND	mg/kg	0.0050	500	1	05/20/09
sec-Butylbenzene	ND	mg/kg	0.0050	500	1	05/20/09
Styrene	ND	mg/kg	0.0050	500	1	05/20/09
tert-Butylbenzene	ND	mg/kg	0.0050	500	1	05/20/09
Tertiary-amyl methyl ether	ND	mg/kg	0.0050		1	05/20/09
Tetrachloroethene	ND	mg/kg	0.0050	12	1	05/20/09
Tetrahydrofuran	ND	mg/kg	0.0050		1	05/20/09
Toluene	ND	mg/kg	0.0050	500	1	05/20/09
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	500	1	05/20/09
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	3.4	1	05/20/09
Trans-1,4-Dichloro-2-Butene	ND	mg/kg	0.0050		1	05/20/09
Trichloroethene	ND	mg/kg	0.0050	56	1	05/20/09
Trichlorofluoromethane	ND	mg/kg	0.0050	500	1	05/20/09
Vinyl Chloride	ND	mg/kg	0.0100	0.32	1	05/20/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: Trip Blank
Date Sampled: 05/19/09 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-04
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene O	ND	mg/kg	0.0050	500	1	05/20/09
Xylene P,M	ND	mg/kg	0.0100	500	1	05/20/09
Xylenes (Total)	ND	mg/kg	0.0075		0	05/20/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*123 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*94 %*		*70-130*
Surrogate: Dibromofluoromethane	*112 %*		*70-130*
Surrogate: Toluene-d8	*102 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: Trip Blank
Date Sampled: 05/19/09 00:00
Percent Solids: N/A
Initial Volume: 15
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-04
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.100	24	1	05/20/09
1,1,1-Trichloroethane	ND	mg/kg	0.0500	500	1	05/20/09
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0500	3.1	1	05/20/09
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0500		1	05/20/09
1,1,2-Trichloroethane	ND	mg/kg	0.0500	11	1	05/20/09
1,1-Dichloroethane	ND	mg/kg	0.0500	500	1	05/20/09
1,1-Dichloroethene	ND	mg/kg	0.0500	1	1	05/20/09
1,1-Dichloropropene	ND	mg/kg	0.0500		1	05/20/09
1,2,3-Trichlorobenzene	ND	mg/kg	0.0500		1	05/20/09
1,2,3-Trichloropropane	ND	mg/kg	0.0500		1	05/20/09
1,2,4-Trichlorobenzene	ND	mg/kg	0.0500	680	1	05/20/09
1,2,4-Trimethylbenzene	ND	mg/kg	0.0500	500	1	05/20/09
1,2-Dibromo-3-Chloropropane	ND	mg/kg	0.300	0.44	1	05/20/09
1,2-Dibromoethane	ND	mg/kg	0.0500	0.007	1	05/20/09
1,2-Dichlorobenzene	ND	mg/kg	0.0500	500	1	05/20/09
1,2-Dichloroethane	ND	mg/kg	0.0500	6.7	1	05/20/09
1,2-Dichloropropane	ND	mg/kg	0.0500	9	1	05/20/09
1,3,5-Trimethylbenzene	ND	mg/kg	0.0500	500	1	05/20/09
1,3-Dichlorobenzene	ND	mg/kg	0.0500	500	1	05/20/09
1,3-Dichloropropane	ND	mg/kg	0.0500		1	05/20/09
1,4-Dichlorobenzene	ND	mg/kg	0.0500	26	1	05/20/09
2,2-Dichloropropane	ND	mg/kg	0.100		1	05/20/09
2-Butanone	ND	mg/kg	1.25	500	1	05/20/09
2-Chlorotoluene	ND	mg/kg	0.0500	500	1	05/20/09
2-Hexanone	ND	mg/kg	0.500		1	05/20/09
4-Chlorotoluene	ND	mg/kg	0.0500	500	1	05/20/09
4-Isopropyltoluene	ND	mg/kg	0.0500	500	1	05/20/09
4-Methyl-2-Pentanone	ND	mg/kg	0.500	500	1	05/20/09
Acetone	ND	mg/kg	1.25	500	1	05/20/09
Acrylonitrile	ND	mg/kg	0.400	1.1	1	05/20/09
Benzene	ND	mg/kg	0.0500	21	1	05/20/09
Bromobenzene	ND	mg/kg	0.0500		1	05/20/09
Bromochloromethane	ND	mg/kg	0.0500		1	05/20/09
Bromodichloromethane	ND	mg/kg	0.0500	9.9	1	05/20/09
Bromoform	ND	mg/kg	0.0500	78	1	05/20/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: Trip Blank
Date Sampled: 05/19/09 00:00
Percent Solids: N/A
Initial Volume: 15
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-04
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Bromomethane	ND	mg/kg	0.100	95	1	05/20/09
Carbon Disulfide	ND	mg/kg	0.0500	500	1	05/20/09
Carbon Tetrachloride	ND	mg/kg	0.0500	4.7	1	05/20/09
Chlorobenzene	ND	mg/kg	0.0500	500	1	05/20/09
Chloroethane	ND	mg/kg	0.100		1	05/20/09
Chloroform	ND	mg/kg	0.0500	100	1	05/20/09
Chloromethane	ND	mg/kg	0.100	47	1	05/20/09
cis-1,2-Dichloroethene	ND	mg/kg	0.0500	500	1	05/20/09
cis-1,3-Dichloropropene	ND	mg/kg	0.0500	3.4	1	05/20/09
Dibromochloromethane	ND	mg/kg	0.0500	7.3	1	05/20/09
Dibromomethane	ND	mg/kg	0.0500		1	05/20/09
Dichlorodifluoromethane	ND	mg/kg	0.0500		1	05/20/09
Diethyl Ether	ND	mg/kg	0.0500		1	05/20/09
Di-isopropyl ether	ND	mg/kg	0.0500		1	05/20/09
Ethyl tertiary-butyl ether	ND	mg/kg	0.0500		1	05/20/09
Ethylbenzene	ND	mg/kg	0.0500	500	1	05/20/09
Hexachlorobutadiene	ND	mg/kg	0.0500	7.9	1	05/20/09
Isopropylbenzene	ND	mg/kg	0.0500	500	1	05/20/09
Methyl tert-Butyl Ether	ND	mg/kg	0.0500	500	1	05/20/09
Methylene Chloride	ND	mg/kg	0.250	82	1	05/20/09
Naphthalene	ND	mg/kg	0.0500	1000	1	05/20/09
n-Butylbenzene	ND	mg/kg	0.0500	500	1	05/20/09
n-Propylbenzene	ND	mg/kg	0.0500	500	1	05/20/09
sec-Butylbenzene	ND	mg/kg	0.0500	500	1	05/20/09
Styrene	ND	mg/kg	0.0500	500	1	05/20/09
tert-Butylbenzene	ND	mg/kg	0.0500	500	1	05/20/09
Tertiary-amyl methyl ether	ND	mg/kg	0.0500		1	05/20/09
Tetrachloroethene	ND	mg/kg	0.0500	12	1	05/20/09
Tetrahydrofuran	ND	mg/kg	0.500		1	05/20/09
Toluene	ND	mg/kg	0.0500	500	1	05/20/09
trans-1,2-Dichloroethene	ND	mg/kg	0.0500	500	1	05/20/09
trans-1,3-Dichloropropene	ND	mg/kg	0.0500	3.4	1	05/20/09
Trans-1,4-Dichloro-2-Butene	ND	mg/kg	0.500		1	05/20/09
Trichloroethene	ND	mg/kg	0.0500	56	1	05/20/09
Trichlorofluoromethane	ND	mg/kg	0.0500	500	1	05/20/09
Vinyl Chloride	ND	mg/kg	0.0500	0.32	1	05/20/09

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: Trip Blank
Date Sampled: 05/19/09 00:00
Percent Solids: N/A
Initial Volume: 15
Final Volume: 15
Extraction Method: 5035

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-04
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Xylene O	ND	mg/kg	0.0500	500	1	05/20/09
Xylene P,M	ND	mg/kg	0.100	500	1	05/20/09
Xylenes (Total)	ND	mg/kg	0.150		0	05/20/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*88 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*88 %*		*70-130*
Surrogate: Dibromofluoromethane	*96 %*		*70-130*
Surrogate: Toluene-d8	*92 %*		*70-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-11 4Ft
Date Sampled: 05/19/09 13:00
Percent Solids: 94

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-05
Sample Matrix: Soil

3050B/6000/7000 Total Metals

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.0	6010B	27	1	SVD	05/20/09	1.77	100
Arsenic	**5.6**	mg/kg dry	3.0	6010B	10	1	SVD	05/20/09	1.77	100
Beryllium	**0.13**	mg/kg dry	0.06	6010B	2	1	SVD	05/20/09	1.77	100
Cadmium	ND	mg/kg dry	0.60	6010B	34	1	SVD	05/20/09	1.77	100
Chromium	**8.8**	mg/kg dry	1.2	6010B	3900	1	SVD	05/20/09	1.77	100
Copper	**8.8**	mg/kg dry	1.2	6010B	2500	1	SVD	05/20/09	1.77	100
Lead	ND	mg/kg dry	6.0	6010B	400	1	SVD	05/20/09	1.77	100
Mercury	ND	mg/kg dry	0.035	7471A	20	1	KAB	05/21/09	0.61	40
Nickel	**7.1**	mg/kg dry	3.0	6010B	1400	1	SVD	05/20/09	1.77	100
Selenium	ND	mg/kg dry	6.0	6010B	340	1	SVD	05/20/09	1.77	100
Silver	ND	mg/kg dry	0.60	6010B	340	1	SVD	05/20/09	1.77	100
Thallium	ND	mg/kg dry	1.49	7841	5.4	5	SVD	05/21/09	1.77	100
Zinc	**9.1**	mg/kg dry	3.0	6010B	20000	1	SVD	05/20/09	1.77	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-11 4Ft
Date Sampled: 05/19/09 13:00
Percent Solids: 94
Initial Volume: 14.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-05
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/21/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	0.369	474	1	05/21/09
Acenaphthene	ND	mg/kg dry	0.369	1000	1	05/21/09
Acenaphthylene	ND	mg/kg dry	0.369	1000	1	05/21/09
Anthracene	ND	mg/kg dry	0.369	1000	1	05/21/09
Benzo(a)anthracene	ND	mg/kg dry	0.369	1	1	05/21/09
Benzo(a)pyrene	ND	mg/kg dry	0.185	1	1	05/21/09
Benzo(b)fluoranthene	ND	mg/kg dry	0.369	1	1	05/21/09
Benzo(g,h,i)perylene	ND	mg/kg dry	0.369	1000	1	05/21/09
Benzo(k)fluoranthene	ND	mg/kg dry	0.369	8.4	1	05/21/09
Chrysene	ND	mg/kg dry	0.185	84	1	05/21/09
Dibenzo(a,h)Anthracene	ND	mg/kg dry	0.185	0.33	1	05/21/09
Fluoranthene	ND	mg/kg dry	0.369	1000	1	05/21/09
Fluorene	ND	mg/kg dry	0.369	1000	1	05/21/09
Indeno(1,2,3-cd)Pyrene	ND	mg/kg dry	0.369	1	1	05/21/09
Naphthalene	ND	mg/kg dry	0.369	1000	1	05/21/09
Phenanthrene	ND	mg/kg dry	0.369	1000	1	05/21/09
Pyrene	ND	mg/kg dry	0.369	1000	1	05/21/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*42 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*50 %*		*30-130*
Surrogate: Nitrobenzene-d5	*41 %*		*30-130*
Surrogate: p-Terphenyl-d14	*90 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-11 4Ft
Date Sampled: 05/19/09 13:00
Percent Solids: 94
Initial Volume: 20.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-05
Sample Matrix: Soil
Analyst: ML
Prepared: 05/21/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	ND	mg/kg dry	21.2	500	1	05/21/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*82 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-12 2Ft
Date Sampled: 05/19/09 13:15
Percent Solids: 94

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-06
Sample Matrix: Soil

3050B/6000/7000 Total Metals

					CT - RES DEC					
Analyte	**Results**	**Units**	**MRL**	**Method**	**Limit**	**DF**	**Analyst**	**Analyzed**	**I/V**	**F/V**
Antimony	ND	mg/kg dry	6.1	6010B	27	1	SVD	05/20/09	1.74	100
Arsenic	**6.2**	mg/kg dry	3.1	6010B	10	1	SVD	05/20/09	1.74	100
Beryllium	**0.19**	mg/kg dry	0.06	6010B	2	1	SVD	05/20/09	1.74	100
Cadmium	ND	mg/kg dry	0.61	6010B	34	1	SVD	05/20/09	1.74	100
Chromium	**29.1**	mg/kg dry	1.2	6010B	3900	1	SVD	05/20/09	1.74	100
Copper	**14.3**	mg/kg dry	1.2	6010B	2500	1	SVD	05/20/09	1.74	100
Lead	**97.4**	mg/kg dry	6.1	6010B	400	1	SVD	05/20/09	1.74	100
Mercury	**0.078**	mg/kg dry	0.033	7471A	20	1	KAB	05/21/09	0.64	40
Nickel	**15.0**	mg/kg dry	3.1	6010B	1400	1	SVD	05/20/09	1.74	100
Selenium	ND	mg/kg dry	6.1	6010B	340	1	SVD	05/20/09	1.74	100
Silver	ND	mg/kg dry	0.61	6010B	340	1	SVD	05/20/09	1.74	100
Thallium	ND	mg/kg dry	1.51	7841	5.4	5	SVD	05/21/09	1.74	100
Zinc	**59.2**	mg/kg dry	3.1	6010B	20000	1	SVD	05/20/09	1.74	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-12 2Ft
Date Sampled: 05/19/09 13:15
Percent Solids: 94
Initial Volume: 14.4
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-06
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/21/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	0.369	474	1	05/21/09
Acenaphthene	ND	mg/kg dry	0.369	1000	1	05/21/09
Acenaphthylene	ND	mg/kg dry	0.369	1000	1	05/21/09
Anthracene	ND	mg/kg dry	0.369	1000	1	05/21/09
Benzo(a)anthracene	**0.558**	mg/kg dry	0.369	1	1	05/21/09
Benzo(a)pyrene	**0.593**	mg/kg dry	0.185	1	1	05/21/09
Benzo(b)fluoranthene	**0.530**	mg/kg dry	0.369	1	1	05/21/09
Benzo(g,h,i)perylene	**0.448**	mg/kg dry	0.369	1000	1	05/21/09
Benzo(k)fluoranthene	**0.446**	mg/kg dry	0.369	8.4	1	05/21/09
Chrysene	**0.656**	mg/kg dry	0.185	84	1	05/21/09
Dibenzo(a,h)Anthracene	**0.204**	mg/kg dry	0.185	0.33	1	05/21/09
Fluoranthene	**0.841**	mg/kg dry	0.369	1000	1	05/21/09
Fluorene	ND	mg/kg dry	0.369	1000	1	05/21/09
Indeno(1,2,3-cd)Pyrene	**0.404**	mg/kg dry	0.369	1	1	05/21/09
Naphthalene	ND	mg/kg dry	0.369	1000	1	05/21/09
Phenanthrene	**0.438**	mg/kg dry	0.369	1000	1	05/21/09
Pyrene	**0.855**	mg/kg dry	0.369	1000	1	05/21/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*61 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*79 %*		*30-130*
Surrogate: Nitrobenzene-d5	*60 %*		*30-130*
Surrogate: p-Terphenyl-d14	*89 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-12 2Ft
Date Sampled: 05/19/09 13:15
Percent Solids: 94
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-06
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	**54.7**	mg/kg dry	20.9	500	1	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*90 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-15 2Ft
Date Sampled: 05/19/09 13:30
Percent Solids: 95

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-07
Sample Matrix: Soil

3050B/6000/7000 Total Metals

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.0	6010B	27	1	SVD	05/20/09	1.75	100
Arsenic	**8.1**	mg/kg dry	3.0	6010B	10	1	SVD	05/20/09	1.75	100
Beryllium	**0.18**	mg/kg dry	0.06	6010B	2	1	SVD	05/20/09	1.75	100
Cadmium	ND	mg/kg dry	0.60	6010B	34	1	SVD	05/20/09	1.75	100
Chromium	**9.8**	mg/kg dry	1.2	6010B	3900	1	SVD	05/20/09	1.75	100
Copper	**8.4**	mg/kg dry	1.2	6010B	2500	1	SVD	05/20/09	1.75	100
Lead	**19.2**	mg/kg dry	6.0	6010B	400	1	SVD	05/20/09	1.75	100
Mercury	ND	mg/kg dry	0.033	7471A	20	1	KAB	05/21/09	0.63	40
Nickel	**7.7**	mg/kg dry	3.0	6010B	1400	1	SVD	05/20/09	1.75	100
Selenium	ND	mg/kg dry	6.0	6010B	340	1	SVD	05/20/09	1.75	100
Silver	ND	mg/kg dry	0.60	6010B	340	1	SVD	05/20/09	1.75	100
Thallium	ND	mg/kg dry	1.49	7841	5.4	5	SVD	05/21/09	1.75	100
Zinc	**10.8**	mg/kg dry	3.0	6010B	20000	1	SVD	05/20/09	1.75	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-15 2Ft
Date Sampled: 05/19/09 13:30
Percent Solids: 95
Initial Volume: 14.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-07
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/21/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	0.363	474	1	05/21/09
Acenaphthene	ND	mg/kg dry	0.363	1000	1	05/21/09
Acenaphthylene	ND	mg/kg dry	0.363	1000	1	05/21/09
Anthracene	ND	mg/kg dry	0.363	1000	1	05/21/09
Benzo(a)anthracene	ND	mg/kg dry	0.363	1	1	05/21/09
Benzo(a)pyrene	ND	mg/kg dry	0.182	1	1	05/21/09
Benzo(b)fluoranthene	ND	mg/kg dry	0.363	1	1	05/21/09
Benzo(g,h,i)perylene	ND	mg/kg dry	0.363	1000	1	05/21/09
Benzo(k)fluoranthene	ND	mg/kg dry	0.363	8.4	1	05/21/09
Chrysene	ND	mg/kg dry	0.182	84	1	05/21/09
Dibenzo(a,h)Anthracene	ND	mg/kg dry	0.182	0.33	1	05/21/09
Fluoranthene	ND	mg/kg dry	0.363	1000	1	05/21/09
Fluorene	ND	mg/kg dry	0.363	1000	1	05/21/09
Indeno(1,2,3-cd)Pyrene	ND	mg/kg dry	0.363	1	1	05/21/09
Naphthalene	ND	mg/kg dry	0.363	1000	1	05/21/09
Phenanthrene	ND	mg/kg dry	0.363	1000	1	05/21/09
Pyrene	ND	mg/kg dry	0.363	1000	1	05/21/09

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*69 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*82 %*		*30-130*
Surrogate: Nitrobenzene-d5	*65 %*		*30-130*
Surrogate: p-Terphenyl-d14	*96 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-15 2Ft
Date Sampled: 05/19/09 13:30
Percent Solids: 95
Initial Volume: 20.5
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-07
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	ND	mg/kg dry	20.5	500	1	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*84 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-16 2Ft
Date Sampled: 05/19/09 13:45
Percent Solids: 92

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-08
Sample Matrix: Soil

3050B/6000/7000 Total Metals

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.2	6010B	27	1	SVD	05/20/09	1.75	100
Arsenic	**7.2**	mg/kg dry	3.1	6010B	10	1	SVD	05/20/09	1.75	100
Beryllium	**0.16**	mg/kg dry	0.07	6010B	2	1	SVD	05/20/09	1.75	100
Cadmium	ND	mg/kg dry	0.62	6010B	34	1	SVD	05/20/09	1.75	100
Chromium	**12.2**	mg/kg dry	1.2	6010B	3900	1	SVD	05/20/09	1.75	100
Copper	**9.8**	mg/kg dry	1.2	6010B	2500	1	SVD	05/20/09	1.75	100
Lead	**24.1**	mg/kg dry	6.2	6010B	400	1	SVD	05/20/09	1.75	100
Mercury	ND	mg/kg dry	0.036	7471A	20	1	KAB	05/21/09	0.6	40
Nickel	**9.1**	mg/kg dry	3.1	6010B	1400	1	SVD	05/20/09	1.75	100
Selenium	ND	mg/kg dry	6.2	6010B	340	1	SVD	05/20/09	1.75	100
Silver	ND	mg/kg dry	0.62	6010B	340	1	SVD	05/20/09	1.75	100
Thallium	ND	mg/kg dry	1.54	7841	5.4	5	SVD	05/21/09	1.75	100
Zinc	**16.2**	mg/kg dry	3.1	6010B	20000	1	SVD	05/20/09	1.75	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-16 2Ft
Date Sampled: 05/19/09 13:45
Percent Solids: 92
Initial Volume: 14.9
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-08
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/21/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	0.364	474	1	05/21/09
Acenaphthene	ND	mg/kg dry	0.364	1000	1	05/21/09
Acenaphthylene	ND	mg/kg dry	0.364	1000	1	05/21/09
Anthracene	ND	mg/kg dry	0.364	1000	1	05/21/09
Benzo(a)anthracene	ND	mg/kg dry	0.364	1	1	05/21/09
Benzo(a)pyrene	**0.238**	mg/kg dry	0.183	1	1	05/21/09
Benzo(b)fluoranthene	ND	mg/kg dry	0.364	1	1	05/21/09
Benzo(g,h,i)perylene	ND	mg/kg dry	0.364	1000	1	05/21/09
Benzo(k)fluoranthene	ND	mg/kg dry	0.364	8.4	1	05/21/09
Chrysene	**0.288**	mg/kg dry	0.183	84	1	05/21/09
Dibenzo(a,h)Anthracene	ND	mg/kg dry	0.183	0.33	1	05/21/09
Fluoranthene	**0.545**	mg/kg dry	0.364	1000	1	05/21/09
Fluorene	ND	mg/kg dry	0.364	1000	1	05/21/09
Indeno(1,2,3-cd)Pyrene	ND	mg/kg dry	0.364	1	1	05/21/09
Naphthalene	ND	mg/kg dry	0.364	1000	1	05/21/09
Phenanthrene	ND	mg/kg dry	0.364	1000	1	05/21/09
Pyrene	**0.425**	mg/kg dry	0.364	1000	1	05/21/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*62 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*73 %*		*30-130*
Surrogate: Nitrobenzene-d5	*66 %*		*30-130*
Surrogate: p-Terphenyl-d14	*88 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-16 2Ft
Date Sampled: 05/19/09 13:45
Percent Solids: 92
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-08
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	ND	mg/kg dry	21.3	500	1	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*86 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-13 1Ft
Date Sampled: 05/19/09 14:15
Percent Solids: 91

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-09
Sample Matrix: Soil

3050B/6000/7000 Total Metals

					CT - RES DEC					
Analyte	**Results**	**Units**	**MRL**	**Method**	**Limit**	**DF**	**Analyst**	**Analyzed**	**I/V**	**F/V**
Antimony	ND	mg/kg dry	6.2	6010B	27	1	SVD	05/20/09	1.77	100
Arsenic	**5.1**	mg/kg dry	3.1	6010B	10	1	SVD	05/20/09	1.77	100
Beryllium	**0.12**	mg/kg dry	0.07	6010B	2	1	SVD	05/20/09	1.77	100
Cadmium	ND	mg/kg dry	0.62	6010B	34	1	SVD	05/20/09	1.77	100
Chromium	**10.9**	mg/kg dry	1.2	6010B	3900	1	SVD	05/20/09	1.77	100
Copper	**18.8**	mg/kg dry	1.2	6010B	2500	1	SVD	05/20/09	1.77	100
Lead	**853**	mg/kg dry	6.2	6010B	400	1	SVD	05/20/09	1.77	100
Mercury	**0.095**	mg/kg dry	0.032	7471A	20	1	KAB	05/21/09	0.69	40
Nickel	**8.1**	mg/kg dry	3.1	6010B	1400	1	SVD	05/20/09	1.77	100
Selenium	ND	mg/kg dry	6.2	6010B	340	1	SVD	05/20/09	1.77	100
Silver	ND	mg/kg dry	0.62	6010B	340	1	SVD	05/20/09	1.77	100
Thallium	ND	mg/kg dry	1.54	7841	5.4	5	SVD	05/21/09	1.77	100
Zinc	**24.8**	mg/kg dry	3.1	6010B	20000	1	SVD	05/20/09	1.77	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-13 1Ft
Date Sampled: 05/19/09 14:15
Percent Solids: 91
Initial Volume: 14.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-09
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/21/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	0.373	474	1	05/21/09
Acenaphthene	ND	mg/kg dry	0.373	1000	1	05/21/09
Acenaphthylene	ND	mg/kg dry	0.373	1000	1	05/21/09
Anthracene	ND	mg/kg dry	0.373	1000	1	05/21/09
Benzo(a)anthracene	ND	mg/kg dry	0.373	1	1	05/21/09
Benzo(a)pyrene	ND	mg/kg dry	0.187	1	1	05/21/09
Benzo(b)fluoranthene	ND	mg/kg dry	0.373	1	1	05/21/09
Benzo(g,h,i)perylene	ND	mg/kg dry	0.373	1000	1	05/21/09
Benzo(k)fluoranthene	ND	mg/kg dry	0.373	8.4	1	05/21/09
Chrysene	ND	mg/kg dry	0.187	84	1	05/21/09
Dibenzo(a,h)Anthracene	ND	mg/kg dry	0.187	0.33	1	05/21/09
Fluoranthene	ND	mg/kg dry	0.373	1000	1	05/21/09
Fluorene	ND	mg/kg dry	0.373	1000	1	05/21/09
Indeno(1,2,3-cd)Pyrene	ND	mg/kg dry	0.373	1	1	05/21/09
Naphthalene	ND	mg/kg dry	0.373	1000	1	05/21/09
Phenanthrene	ND	mg/kg dry	0.373	1000	1	05/21/09
Pyrene	ND	mg/kg dry	0.373	1000	1	05/21/09

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*69 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*81 %*		*30-130*
Surrogate: Nitrobenzene-d5	*69 %*		*30-130*
Surrogate: p-Terphenyl-d14	*92 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-13 1Ft
Date Sampled: 05/19/09 14:15
Percent Solids: 91
Initial Volume: 20.9
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-09
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	ND	mg/kg dry	21.0	500	1	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*79 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-14 2 Ft
Date Sampled: 05/19/09 14:30
Percent Solids: 87

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-10
Sample Matrix: Soil

3050B/6000/7000 Total Metals

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.5	6010B	27	1	SVD	05/20/09	1.76	100
Arsenic	**6.9**	mg/kg dry	3.3	6010B	10	1	SVD	05/20/09	1.76	100
Beryllium	**0.10**	mg/kg dry	0.07	6010B	2	1	SVD	05/20/09	1.76	100
Cadmium	ND	mg/kg dry	0.66	6010B	34	1	SVD	05/20/09	1.76	100
Chromium	**7.0**	mg/kg dry	1.3	6010B	3900	1	SVD	05/20/09	1.76	100
Copper	**5.8**	mg/kg dry	1.3	6010B	2500	1	SVD	05/20/09	1.76	100
Lead	**27.6**	mg/kg dry	6.5	6010B	400	1	SVD	05/20/09	1.76	100
Mercury	ND	mg/kg dry	0.036	7471A	20	1	KAB	05/21/09	0.64	40
Nickel	**5.3**	mg/kg dry	3.3	6010B	1400	1	SVD	05/20/09	1.76	100
Selenium	ND	mg/kg dry	6.5	6010B	340	1	SVD	05/20/09	1.76	100
Silver	ND	mg/kg dry	0.66	6010B	340	1	SVD	05/20/09	1.76	100
Thallium	ND	mg/kg dry	1.62	7841	5.4	5	SVD	05/21/09	1.76	100
Zinc	**12.1**	mg/kg dry	3.3	6010B	20000	1	SVD	05/20/09	1.76	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-14 2 Ft
Date Sampled: 05/19/09 14:30
Percent Solids: 87
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-10
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/21/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	0.378	474	1	05/21/09
Acenaphthene	ND	mg/kg dry	0.378	1000	1	05/21/09
Acenaphthylene	ND	mg/kg dry	0.378	1000	1	05/21/09
Anthracene	ND	mg/kg dry	0.378	1000	1	05/21/09
Benzo(a)anthracene	**0.783**	mg/kg dry	0.378	1	1	05/21/09
Benzo(a)pyrene	**0.620**	mg/kg dry	0.189	1	1	05/21/09
Benzo(b)fluoranthene	**0.552**	mg/kg dry	0.378	1	1	05/21/09
Benzo(g,h,i)perylene	**0.489**	mg/kg dry	0.378	1000	1	05/21/09
Benzo(k)fluoranthene	**0.573**	mg/kg dry	0.378	8.4	1	05/21/09
Chrysene	**0.758**	mg/kg dry	0.189	84	1	05/21/09
Dibenzo(a,h)Anthracene	ND	mg/kg dry	0.189	0.33	1	05/21/09
Fluoranthene	**1.63**	mg/kg dry	0.378	1000	1	05/21/09
Fluorene	ND	mg/kg dry	0.378	1000	1	05/21/09
Indeno(1,2,3-cd)Pyrene	**0.481**	mg/kg dry	0.378	1	1	05/21/09
Naphthalene	ND	mg/kg dry	0.378	1000	1	05/21/09
Phenanthrene	ND	mg/kg dry	0.378	1000	1	05/21/09
Pyrene	**1.43**	mg/kg dry	0.378	1000	1	05/21/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*65 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*88 %*		*30-130*
Surrogate: Nitrobenzene-d5	*72 %*		*30-130*
Surrogate: p-Terphenyl-d14	*97 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-14 2 Ft
Date Sampled: 05/19/09 14:30
Percent Solids: 87
Initial Volume: 20.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-10
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	**28.6**	mg/kg dry	22.9	500	1	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*73 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-14 8 Ft
Date Sampled: 05/19/09 14:30
Percent Solids: 91

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-11
Sample Matrix: Soil

3050B/6000/7000 Total Metals

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.2	6010B	27	1	SVD	05/20/09	1.78	100
Arsenic	**4.8**	mg/kg dry	3.1	6010B	10	1	SVD	05/20/09	1.78	100
Beryllium	**0.17**	mg/kg dry	0.06	6010B	2	1	SVD	05/20/09	1.78	100
Cadmium	ND	mg/kg dry	0.62	6010B	34	1	SVD	05/20/09	1.78	100
Chromium	**12.6**	mg/kg dry	1.2	6010B	3900	1	SVD	05/20/09	1.78	100
Copper	**8.7**	mg/kg dry	1.2	6010B	2500	1	SVD	05/20/09	1.78	100
Lead	**37.2**	mg/kg dry	6.2	6010B	400	1	SVD	05/20/09	1.78	100
Mercury	ND	mg/kg dry	0.036	7471A	20	1	KAB	05/21/09	0.6	40
Nickel	**8.6**	mg/kg dry	3.1	6010B	1400	1	SVD	05/20/09	1.78	100
Selenium	ND	mg/kg dry	6.2	6010B	340	1	SVD	05/20/09	1.78	100
Silver	ND	mg/kg dry	0.62	6010B	340	1	SVD	05/20/09	1.78	100
Thallium	ND	mg/kg dry	1.53	7841	5.4	5	SVD	05/21/09	1.78	100
Zinc	**17.0**	mg/kg dry	3.1	6010B	20000	1	SVD	05/20/09	1.78	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-14 8 Ft
Date Sampled: 05/19/09 14:30
Percent Solids: 91
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-11
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/21/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	0.366	474	1	05/22/09
Acenaphthene	ND	mg/kg dry	0.366	1000	1	05/22/09
Acenaphthylene	ND	mg/kg dry	0.366	1000	1	05/22/09
Anthracene	ND	mg/kg dry	0.366	1000	1	05/22/09
Benzo(a)anthracene	ND	mg/kg dry	0.366	1	1	05/22/09
Benzo(a)pyrene	ND	mg/kg dry	0.184	1	1	05/22/09
Benzo(b)fluoranthene	ND	mg/kg dry	0.366	1	1	05/22/09
Benzo(g,h,i)perylene	ND	mg/kg dry	0.366	1000	1	05/22/09
Benzo(k)fluoranthene	ND	mg/kg dry	0.366	8.4	1	05/22/09
Chrysene	ND	mg/kg dry	0.184	84	1	05/22/09
Dibenzo(a,h)Anthracene	ND	mg/kg dry	0.184	0.33	1	05/22/09
Fluoranthene	ND	mg/kg dry	0.366	1000	1	05/22/09
Fluorene	ND	mg/kg dry	0.366	1000	1	05/22/09
Indeno(1,2,3-cd)Pyrene	ND	mg/kg dry	0.366	1	1	05/22/09
Naphthalene	ND	mg/kg dry	0.366	1000	1	05/22/09
Phenanthrene	ND	mg/kg dry	0.366	1000	1	05/22/09
Pyrene	ND	mg/kg dry	0.366	1000	1	05/22/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*64 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*86 %*		*30-130*
Surrogate: Nitrobenzene-d5	*59 %*		*30-130*
Surrogate: p-Terphenyl-d14	*89 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-14 8 Ft
Date Sampled: 05/19/09 14:30
Percent Solids: 91
Initial Volume: 20.6
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-11
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	**34.8**	mg/kg dry	21.3	500	1	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*60 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-17 5 Ft
Date Sampled: 05/19/09 14:50
Percent Solids: 89

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-12
Sample Matrix: Soil

3050B/6000/7000 Total Metals

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.4	6010B	27	1	SVD	05/20/09	1.75	100
Arsenic	**5.3**	mg/kg dry	3.2	6010B	10	1	SVD	05/20/09	1.75	100
Beryllium	**0.14**	mg/kg dry	0.07	6010B	2	1	SVD	05/20/09	1.75	100
Cadmium	ND	mg/kg dry	0.65	6010B	34	1	SVD	05/20/09	1.75	100
Chromium	**9.1**	mg/kg dry	1.3	6010B	3900	1	SVD	05/20/09	1.75	100
Copper	**11.4**	mg/kg dry	1.3	6010B	2500	1	SVD	05/20/09	1.75	100
Lead	**290**	mg/kg dry	6.4	6010B	400	1	SVD	05/20/09	1.75	100
Mercury	**0.062**	mg/kg dry	0.036	7471A	20	1	KAB	05/21/09	0.61	40
Nickel	**6.3**	mg/kg dry	3.2	6010B	1400	1	SVD	05/20/09	1.75	100
Selenium	ND	mg/kg dry	6.4	6010B	340	1	SVD	05/20/09	1.75	100
Silver	ND	mg/kg dry	0.65	6010B	340	1	SVD	05/20/09	1.75	100
Thallium	ND	mg/kg dry	1.59	7841	5.4	5	SVD	05/21/09	1.75	100
Zinc	**63.3**	mg/kg dry	3.2	6010B	20000	1	SVD	05/20/09	1.75	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-17 5 Ft
Date Sampled: 05/19/09 14:50
Percent Solids: 89
Initial Volume: 15.3
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-12
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/21/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	0.367	474	1	05/22/09
Acenaphthene	ND	mg/kg dry	0.367	1000	1	05/22/09
Acenaphthylene	ND	mg/kg dry	0.367	1000	1	05/22/09
Anthracene	ND	mg/kg dry	0.367	1000	1	05/22/09
Benzo(a)anthracene	**1.05**	mg/kg dry	0.367	1	1	05/22/09
Benzo(a)pyrene	**0.902**	mg/kg dry	0.184	1	1	05/22/09
Benzo(b)fluoranthene	**0.744**	mg/kg dry	0.367	1	1	05/22/09
Benzo(g,h,i)perylene	**0.497**	mg/kg dry	0.367	1000	1	05/22/09
Benzo(k)fluoranthene	**0.846**	mg/kg dry	0.367	8.4	1	05/22/09
Chrysene	**1.04**	mg/kg dry	0.184	84	1	05/22/09
Dibenzo(a,h)Anthracene	**0.245**	mg/kg dry	0.184	0.33	1	05/22/09
Fluoranthene	**1.50**	mg/kg dry	0.367	1000	1	05/22/09
Fluorene	ND	mg/kg dry	0.367	1000	1	05/22/09
Indeno(1,2,3-cd)Pyrene	**0.533**	mg/kg dry	0.367	1	1	05/22/09
Naphthalene	ND	mg/kg dry	0.367	1000	1	05/22/09
Phenanthrene	**0.739**	mg/kg dry	0.367	1000	1	05/22/09
Pyrene	**1.34**	mg/kg dry	0.367	1000	1	05/22/09

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*58 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*74 %*		*30-130*
Surrogate: Nitrobenzene-d5	*62 %*		*30-130*
Surrogate: p-Terphenyl-d14	*82 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-17 5 Ft
Date Sampled: 05/19/09 14:50
Percent Solids: 89
Initial Volume: 20.9
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-12
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	**269**	mg/kg dry	21.5	500	1	05/20/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*117 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-140 2 Ft
Date Sampled: 05/19/09 15:30
Percent Solids: 88

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-13
Sample Matrix: Soil

3050B/6000/7000 Total Metals

					CT - RES DEC					
Analyte	**Results**	**Units**	**MRL**	**Method**	**Limit**	**DF**	**Analyst**	**Analyzed**	**I/V**	**F/V**
Antimony	ND	mg/kg dry	6.5	6010B	27	1	SVD	05/20/09	1.76	100
Arsenic	**6.2**	mg/kg dry	3.2	6010B	10	1	SVD	05/20/09	1.76	100
Beryllium	**0.13**	mg/kg dry	0.07	6010B	2	1	SVD	05/20/09	1.76	100
Cadmium	ND	mg/kg dry	0.65	6010B	34	1	SVD	05/20/09	1.76	100
Chromium	**7.0**	mg/kg dry	1.3	6010B	3900	1	SVD	05/20/09	1.76	100
Copper	**6.1**	mg/kg dry	1.3	6010B	2500	1	SVD	05/20/09	1.76	100
Lead	**27.2**	mg/kg dry	6.5	6010B	400	1	SVD	05/20/09	1.76	100
Mercury	ND	mg/kg dry	0.034	7471A	20	1	KAB	05/21/09	0.66	40
Nickel	**5.2**	mg/kg dry	3.2	6010B	1400	1	SVD	05/20/09	1.76	100
Selenium	ND	mg/kg dry	6.5	6010B	340	1	SVD	05/20/09	1.76	100
Silver	ND	mg/kg dry	0.65	6010B	340	1	SVD	05/20/09	1.76	100
Thallium	ND	mg/kg dry	1.60	7841	5.4	5	SVD	05/21/09	1.76	100
Zinc	**12.3**	mg/kg dry	3.2	6010B	20000	1	SVD	05/20/09	1.76	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-140 2 Ft
Date Sampled: 05/19/09 15:30
Percent Solids: 88
Initial Volume: 15.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-13
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/21/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	0.366	474	1	05/22/09
Acenaphthene	ND	mg/kg dry	0.366	1000	1	05/22/09
Acenaphthylene	ND	mg/kg dry	0.366	1000	1	05/22/09
Anthracene	ND	mg/kg dry	0.366	1000	1	05/22/09
Benzo(a)anthracene	**0.655**	mg/kg dry	0.366	1	1	05/22/09
Benzo(a)pyrene	**0.522**	mg/kg dry	0.184	1	1	05/22/09
Benzo(b)fluoranthene	**0.453**	mg/kg dry	0.366	1	1	05/22/09
Benzo(g,h,i)perylene	**0.402**	mg/kg dry	0.366	1000	1	05/22/09
Benzo(k)fluoranthene	**0.508**	mg/kg dry	0.366	8.4	1	05/22/09
Chrysene	**0.641**	mg/kg dry	0.184	84	1	05/22/09
Dibenzo(a,h)Anthracene	ND	mg/kg dry	0.184	0.33	1	05/22/09
Fluoranthene	**1.37**	mg/kg dry	0.366	1000	1	05/22/09
Fluorene	ND	mg/kg dry	0.366	1000	1	05/22/09
Indeno(1,2,3-cd)Pyrene	**0.386**	mg/kg dry	0.366	1	1	05/22/09
Naphthalene	ND	mg/kg dry	0.366	1000	1	05/22/09
Phenanthrene	ND	mg/kg dry	0.366	1000	1	05/22/09
Pyrene	**1.16**	mg/kg dry	0.366	1000	1	05/22/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*61 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*80 %*		*30-130*
Surrogate: Nitrobenzene-d5	*65 %*		*30-130*
Surrogate: p-Terphenyl-d14	*91 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-140 2 Ft
Date Sampled: 05/19/09 15:30
Percent Solids: 88
Initial Volume: 21
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905249
ESS Laboratory Sample ID: 0905249-13
Sample Matrix: Soil
Analyst: ML
Prepared: 05/19/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	**38.3**	mg/kg dry	21.6	500	1	05/21/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*98 %*		*50-150*

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905249

Quality Control Data

3050B/6000/7000 Total Metals

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BE92013 - 3050B										
Blank										
Antimony	ND	6.7	mg/kg wet							
Arsenic	ND	3.3	mg/kg wet							
Beryllium	ND	0.07	mg/kg wet							
Cadmium	ND	0.67	mg/kg wet							
Chromium	ND	1.3	mg/kg wet							
Copper	ND	1.3	mg/kg wet							
Lead	ND	6.7	mg/kg wet							
Nickel	ND	3.3	mg/kg wet							
Selenium	ND	6.7	mg/kg wet							
Silver	ND	0.67	mg/kg wet							
Thallium	ND	0.33	mg/kg wet							
Zinc	ND	3.3	mg/kg wet							
LCS										
Antimony	32.3	6.7	mg/kg wet	33.33		97	80-120			
Arsenic	34.1	3.3	mg/kg wet	33.33		102	80-120			
Beryllium	3.26	0.07	mg/kg wet	3.333		98	80-120			
Cadmium	15.4	0.67	mg/kg wet	16.67		93	80-120			
Chromium	33.1	1.3	mg/kg wet	33.33		99	80-120			
Copper	31.9	1.3	mg/kg wet	33.33		96	80-120			
Lead	33.3	6.7	mg/kg wet	33.33		100	80-120			
Nickel	33.1	3.3	mg/kg wet	33.33		99	80-120			
Selenium	60.7	6.7	mg/kg wet	66.67		91	80-120			
Silver	16.1	0.67	mg/kg wet	16.67		97	80-120			
Thallium	33.8	6.60	mg/kg wet	33.33		101	80-120			
Zinc	31.9	3.3	mg/kg wet	33.33		96	80-120			
LCS Dup										
Antimony	31.9	6.7	mg/kg wet	33.33		96	80-120	1	20	
Arsenic	33.7	3.3	mg/kg wet	33.33		101	80-120	1	20	
Beryllium	3.22	0.07	mg/kg wet	3.333		97	80-120	1	20	
Cadmium	15.3	0.67	mg/kg wet	16.67		92	80-120	1	20	
Chromium	32.7	1.3	mg/kg wet	33.33		98	80-120	1	20	
Copper	31.5	1.3	mg/kg wet	33.33		94	80-120	1	20	
Lead	32.9	6.7	mg/kg wet	33.33		99	80-120	1	20	
Nickel	32.4	3.3	mg/kg wet	33.33		97	80-120	2	20	
Selenium	59.4	6.7	mg/kg wet	66.67		89	80-120	2	20	
Silver	15.9	0.67	mg/kg wet	16.67		95	80-120	1	20	
Thallium	35.7	6.60	mg/kg wet	33.33		107	80-120	6	20	
Zinc	31.6	3.3	mg/kg wet	33.33		95	80-120	1	20	
Duplicate **Source: 0905249-12**										
Antimony	ND	6.4	mg/kg dry		ND				35	
Arsenic	5.10	3.2	mg/kg dry		5.31			4	35	
Beryllium	0.137	0.07	mg/kg dry		0.137			0.5	35	
Cadmium	0.233	0.65	mg/kg dry		0.226			3	35	
Chromium	9.48	1.3	mg/kg dry		9.11			4	35	

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905249

Quality Control Data

Analyte		Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
				3050B/6000/7000 Total Metals							
Batch BE92013 - 3050B											
Copper		11.4	1.3	mg/kg dry		11.4			0.1	35	
Lead		177	6.4	mg/kg dry		290			48	35	D+
Nickel		6.78	3.2	mg/kg dry		6.32			7	35	
Selenium		ND	6.4	mg/kg dry		ND				35	
Silver		ND	0.65	mg/kg dry		ND				35	
Thallium		ND	1.59	mg/kg dry		ND				35	
Zinc		57.2	3.2	mg/kg dry		63.3			10	35	
Duplicate	**Source: 0905249-13**										
Antimony		ND	6.5	mg/kg dry		ND				35	
Arsenic		6.47	3.2	mg/kg dry		6.22			4	35	
Beryllium		0.103	0.07	mg/kg dry		0.126			20	35	
Cadmium		0.206	0.65	mg/kg dry		0.250			19	35	
Chromium		7.18	1.3	mg/kg dry		7.03			2	35	
Copper		8.49	1.3	mg/kg dry		6.09			33	35	
Lead		25.0	6.5	mg/kg dry		27.2			8	35	
Nickel		5.10	3.2	mg/kg dry		5.24			3	35	
Selenium		ND	6.5	mg/kg dry		ND				35	
Silver		0.085	0.65	mg/kg dry		0.072			16	35	
Thallium		ND	1.60	mg/kg dry		ND				35	
Zinc		12.0	3.2	mg/kg dry		12.3			2	35	
Duplicate	**Source: 0905249-03**										
Antimony		ND	6.0	mg/kg dry		ND				35	
Arsenic		4.44	3.0	mg/kg dry		5.13			15	35	
Beryllium		0.194	0.06	mg/kg dry		0.219			12	35	
Cadmium		0.182	0.60	mg/kg dry		0.260			35	35	
Chromium		13.1	1.2	mg/kg dry		15.2			15	35	
Copper		9.12	1.2	mg/kg dry		9.81			7	35	
Lead		3.83	6.0	mg/kg dry		3.84			0.3	35	
Nickel		9.49	3.0	mg/kg dry		10.8			13	35	
Selenium		ND	6.0	mg/kg dry		ND				35	
Silver		ND	0.60	mg/kg dry		ND				35	
Thallium		ND	1.48	mg/kg dry		ND				35	
Zinc		11.5	3.0	mg/kg dry		12.3			7	35	
Matrix Spike	**Source: 0905249-03**										
Antimony		19.0	6.2	mg/kg dry	31.04	ND	61	75-125			M-
Arsenic		34.6	3.1	mg/kg dry	31.04	5.13	95	75-125			
Beryllium		2.93	0.07	mg/kg dry	3.104	0.219	87	75-125			
Cadmium		13.2	0.62	mg/kg dry	15.52	0.260	84	75-125			
Chromium		37.3	1.2	mg/kg dry	31.04	15.2	71	75-125			M-
Copper		41.0	1.2	mg/kg dry	31.04	9.81	100	75-125			
Lead		232	6.2	mg/kg dry	31.04	3.84	734	75-125			M-
Nickel		35.1	3.1	mg/kg dry	31.04	10.8	78	75-125			
Selenium		52.9	6.2	mg/kg dry	62.08	ND	85	75-125			
Silver		14.2	0.62	mg/kg dry	15.52	ND	92	75-125			
Thallium		29.1	6.15	mg/kg dry	31.04	ND	94	75-125			

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905249

Quality Control Data

Analyte		Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
				3050B/6000/7000 Total Metals							
Batch BE92013 - 3050B											
Zinc		87.2	3.1	mg/kg dry	31.04	12.3	241	75-125			M+
Matrix Spike	**Source: 0905249-13**										
Antimony		18.8	6.4	mg/kg dry	31.92	ND	59	75-125			M-
Arsenic		34.2	3.2	mg/kg dry	31.92	6.22	88	75-125			
Beryllium		2.89	0.07	mg/kg dry	3.192	0.126	87	75-125			
Cadmium		13.5	0.64	mg/kg dry	15.96	0.250	83	75-125			
Chromium		35.7	1.3	mg/kg dry	31.92	7.03	90	75-125			
Copper		35.0	1.3	mg/kg dry	31.92	6.09	90	75-125			
Lead		51.3	6.4	mg/kg dry	31.92	27.2	76	75-125			
Nickel		33.4	3.2	mg/kg dry	31.92	5.24	88	75-125			
Selenium		54.3	6.4	mg/kg dry	63.84	ND	85	75-125			
Silver		14.6	0.64	mg/kg dry	15.96	0.072	91	75-125			
Thallium		28.7	6.32	mg/kg dry	31.92	ND	90	75-125			
Zinc		40.0	3.2	mg/kg dry	31.92	12.3	87	75-125			
Matrix Spike	**Source: 0905249-03**										
Antimony		17.9	6.1	mg/kg dry	30.53	ND	59	75-125			M-
Arsenic		31.5	3.0	mg/kg dry	30.53	5.13	86	75-125			
Beryllium		2.96	0.06	mg/kg dry	3.053	0.219	90	75-125			
Cadmium		13.0	0.61	mg/kg dry	15.26	0.260	83	75-125			
Chromium		42.5	1.2	mg/kg dry	30.53	15.2	89	75-125			
Copper		38.7	1.2	mg/kg dry	30.53	9.81	95	75-125			
Lead		31.1	6.1	mg/kg dry	30.53	3.84	89	75-125			
Nickel		38.1	3.0	mg/kg dry	30.53	10.8	89	75-125			
Selenium		52.8	6.1	mg/kg dry	61.05	ND	87	75-125			
Silver		13.7	0.61	mg/kg dry	15.26	ND	90	75-125			
Thallium		27.0	6.04	mg/kg dry	30.53	ND	89	75-125			
Zinc		41.1	3.0	mg/kg dry	30.53	12.3	94	75-125			
Reference											
Antimony		86.1	10.0	mg/kg wet	127.0		68	0-210			
Arsenic		282	5.0	mg/kg wet	280.0		101	81-119			
Beryllium		49.3	0.10	mg/kg wet	51.00		97	83-117			
Cadmium		168	1.00	mg/kg wet	182.0		92	82-118			
Chromium		135	2.0	mg/kg wet	142.0		95	81-120			
Copper		123	2.0	mg/kg wet	132.0		93	83-117			
Lead		71.7	10.0	mg/kg wet	72.20		99	82-118			
Nickel		154	5.0	mg/kg wet	155.0		99	82-117			
Selenium		155	10.0	mg/kg wet	165.0		94	78-123			
Silver		129	1.00	mg/kg wet	126.0		102	66-134			
Thallium		199	24.8	mg/kg wet	184.0		108	77-122			
Zinc		318	5.0	mg/kg wet	346.0		92	79-121			
Batch BE92015 - 7471A											
Blank											
Mercury		ND	0.033	mg/kg wet							
LCS											

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905249

Quality Control Data

Analyte		Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals											
Batch BE92015 - 7471A											
Mercury		0.225	0.033	mg/kg wet	0.2000		112	80-120			
LCS Dup											
Mercury		0.217	0.033	mg/kg wet	0.2000		109	80-120	3	20	
Duplicate	**Source: 0905249-06**										
Mercury		0.0605	0.035	mg/kg dry		0.0778			25	35	
Duplicate	**Source: 0905249-03**										
Mercury		0.0057	0.035	mg/kg dry		0.0114			66	35	
Matrix Spike	**Source: 0905249-06**										
Mercury		0.288	0.034	mg/kg dry	0.2059	0.0778	102	75-125			
Matrix Spike	**Source: 0905249-03**										
Mercury		0.237	0.036	mg/kg dry	0.2198	0.0114	102	75-125			
Matrix Spike Dup	**Source: 0905249-06**										
Mercury		0.300	0.035	mg/kg dry	0.2128	0.0778	104	75-125	2	35	
Matrix Spike Dup	**Source: 0905249-03**										
Mercury		0.221	0.033	mg/kg dry	0.2029	0.0114	103	75-125	0.9	35	
Reference											
Mercury		8.17	0.660	mg/kg wet	8.480		96	66-132			
Batch BE92016 - 7471A											
Blank											
Mercury		ND	0.033	mg/kg wet							
LCS											
Mercury		0.234	0.033	mg/kg wet	0.2000		117	80-120			
LCS Dup											
Mercury		0.218	0.033	mg/kg wet	0.2000		109	80-120	7	20	
Duplicate	**Source: 0905249-13**										
Mercury		0.0108	0.036	mg/kg dry		0.0177			49	35	
Matrix Spike	**Source: 0905249-13**										
Mercury		0.251	0.036	mg/kg dry	0.2199	0.0177	106	75-125			
Matrix Spike Dup	**Source: 0905249-13**										
Mercury		0.247	0.036	mg/kg dry	0.2165	0.0177	106	75-125	0.4	35	
Reference											
Mercury		7.82	0.660	mg/kg wet	8.480		92	66-132			
5035/8260B Volatile Organic Compounds / Low Level											
Batch BE92112 - 5035											
Blank											
1,1,1,2-Tetrachloroethane		ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane		ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane		ND	0.0050	mg/kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	0.0050	mg/kg wet							
1,1,2-Trichloroethane		ND	0.0050	mg/kg wet							
1,1-Dichloroethane		ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905249

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BE92112 - 5035										
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0500	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0500	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet							
Acetone	ND	0.0500	mg/kg wet							
Acrylonitrile	ND	0.0050	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0050	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905249

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BE92112 - 5035										
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0250	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trans-1,4-Dichloro-2-Butene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0499*		mg/kg wet	*0.05000*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0504*		mg/kg wet	*0.05000*		*101*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0475*		mg/kg wet	*0.05000*		*95*	*70-130*			
Surrogate: Toluene-d8	*0.0508*		mg/kg wet	*0.05000*		*102*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
1,1,1-Trichloroethane	0.0417	0.0050	mg/kg wet	0.05000		83	70-130			
1,1,2,2-Tetrachloroethane	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0483	0.0050	mg/kg wet	0.05000		97	70-130			
1,1,2-Trichloroethane	0.0508	0.0050	mg/kg wet	0.05000		102	70-130			
1,1-Dichloroethane	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
1,1-Dichloroethene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
1,1-Dichloropropene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130			
1,2,3-Trichlorobenzene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
1,2,3-Trichloropropane	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
1,2,4-Trichlorobenzene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
1,2,4-Trimethylbenzene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130			
1,2-Dibromo-3-Chloropropane	0.0429	0.0050	mg/kg wet	0.05000		86	70-130			
1,2-Dibromoethane	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
1,2-Dichlorobenzene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
1,2-Dichloroethane	0.0427	0.0050	mg/kg wet	0.05000		85	70-130			
1,2-Dichloropropane	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
1,3,5-Trimethylbenzene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
1,3-Dichlorobenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130			

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905249

Quality Control Data

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BE92112 - 5035										
1,3-Dichloropropane	0.0529	0.0050	mg/kg wet	0.05000		106	70-130			
1,4-Dichlorobenzene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
1,4-Dioxane	1.05	0.100	mg/kg wet	1.000		105	70-130			
2,2-Dichloropropane	0.0439	0.0050	mg/kg wet	0.05000		88	70-130			
2-Butanone	0.250	0.0500	mg/kg wet	0.2500		100	70-130			
2-Chlorotoluene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
2-Hexanone	0.268	0.0500	mg/kg wet	0.2500		107	70-130			
4-Chlorotoluene	0.0451	0.0050	mg/kg wet	0.05000		90	70-130			
4-Isopropyltoluene	0.0447	0.0050	mg/kg wet	0.05000		89	70-130			
4-Methyl-2-Pentanone	0.241	0.0500	mg/kg wet	0.2500		96	70-130			
Acetone	0.195	0.0500	mg/kg wet	0.2500		78	70-130			
Acrylonitrile	0.0504	0.0050	mg/kg wet	0.05000		101	70-130			
Benzene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			
Bromobenzene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
Bromochloromethane	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
Bromodichloromethane	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
Bromoform	0.0509	0.0050	mg/kg wet	0.05000		102	70-130			
Bromomethane	0.0495	0.0100	mg/kg wet	0.05000		99	70-130			
Carbon Disulfide	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			
Carbon Tetrachloride	0.0448	0.0050	mg/kg wet	0.05000		90	70-130			
Chlorobenzene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130			
Chloroethane	0.0477	0.0100	mg/kg wet	0.05000		95	70-130			
Chloroform	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
Chloromethane	0.0426	0.0100	mg/kg wet	0.05000		85	70-130			
cis-1,2-Dichloroethene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
cis-1,3-Dichloropropene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
Dibromochloromethane	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			
Dibromomethane	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
Dichlorodifluoromethane	0.0389	0.0100	mg/kg wet	0.05000		78	70-130			
Diethyl Ether	0.0370	0.0050	mg/kg wet	0.05000		74	70-130			
Di-isopropyl ether	0.0468	0.0050	mg/kg wet	0.05000		94	70-130			
Ethyl tertiary-butyl ether	0.0425	0.0050	mg/kg wet	0.05000		85	70-130			
Ethylbenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
Hexachlorobutadiene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
Isopropylbenzene	0.0412	0.0050	mg/kg wet	0.05000		82	70-130			
Methyl tert-Butyl Ether	0.0462	0.0050	mg/kg wet	0.05000		92	70-130			
Methylene Chloride	0.0496	0.0250	mg/kg wet	0.05000		99	70-130			
Naphthalene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
n-Butylbenzene	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
n-Propylbenzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
sec-Butylbenzene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130			
Styrene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
tert-Butylbenzene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
Tertiary-amyl methyl ether	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
Tetrachloroethene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
Tetrahydrofuran	0.0433	0.0050	mg/kg wet	0.05000		87	70-130			

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905249

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BE92112 - 5035										
Toluene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
trans-1,2-Dichloroethene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			
trans-1,3-Dichloropropene	0.0429	0.0050	mg/kg wet	0.05000		86	70-130			
Trans-1,4-Dichloro-2-Butene	0.0413	0.0050	mg/kg wet	0.05000		83	70-130			
Trichloroethene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
Trichlorofluoromethane	0.0402	0.0050	mg/kg wet	0.05000		80	70-130			
Vinyl Chloride	0.0462	0.0100	mg/kg wet	0.05000		92	70-130			
Xylene O	0.0495	0.0050	mg/kg wet	0.05000		99	70-130			
Xylene P,M	0.0957	0.0100	mg/kg wet	0.1000		96	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0417*		mg/kg wet	*0.05000*		*83*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0502*		mg/kg wet	*0.05000*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0427*		mg/kg wet	*0.05000*		*85*	*70-130*			
Surrogate: Toluene-d8	*0.0528*		mg/kg wet	*0.05000*		*106*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	3	25	
1,1,1-Trichloroethane	0.0413	0.0050	mg/kg wet	0.05000		83	70-130	1	25	
1,1,2,2-Tetrachloroethane	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	1	25	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0461	0.0050	mg/kg wet	0.05000		92	70-130	5	25	
1,1,2-Trichloroethane	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	3	25	
1,1-Dichloroethane	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	0.6	25	
1,1-Dichloroethene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130	2	25	
1,1-Dichloropropene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130	1	25	
1,2,3-Trichlorobenzene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	5	25	
1,2,3-Trichloropropane	0.0457	0.0050	mg/kg wet	0.05000		91	70-130	2	25	
1,2,4-Trichlorobenzene	0.0439	0.0050	mg/kg wet	0.05000		88	70-130	4	25	
1,2,4-Trimethylbenzene	0.0460	0.0050	mg/kg wet	0.05000		92	70-130	0.4	25	
1,2-Dibromo-3-Chloropropane	0.0434	0.0050	mg/kg wet	0.05000		87	70-130	1	25	
1,2-Dibromoethane	0.0484	0.0050	mg/kg wet	0.05000		97	70-130	4	25	
1,2-Dichlorobenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	0.9	25	
1,2-Dichloroethane	0.0438	0.0050	mg/kg wet	0.05000		88	70-130	3	25	
1,2-Dichloropropane	0.0473	0.0050	mg/kg wet	0.05000		95	70-130	2	25	
1,3,5-Trimethylbenzene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	3	25	
1,3-Dichlorobenzene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130	0.5	25	
1,3-Dichloropropane	0.0521	0.0050	mg/kg wet	0.05000		104	70-130	1	25	
1,4-Dichlorobenzene	0.0446	0.0050	mg/kg wet	0.05000		89	70-130	7	25	
1,4-Dioxane	0.983	0.100	mg/kg wet	1.000		98	70-130	7	20	
2,2-Dichloropropane	0.0431	0.0050	mg/kg wet	0.05000		86	70-130	2	25	
2-Butanone	0.240	0.0500	mg/kg wet	0.2500		96	70-130	4	25	
2-Chlorotoluene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	3	25	
2-Hexanone	0.251	0.0500	mg/kg wet	0.2500		100	70-130	7	25	
4-Chlorotoluene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130	5	25	
4-Isopropyltoluene	0.0444	0.0050	mg/kg wet	0.05000		89	70-130	0.7	25	
4-Methyl-2-Pentanone	0.227	0.0500	mg/kg wet	0.2500		91	70-130	6	25	
Acetone	0.177	0.0500	mg/kg wet	0.2500		71	70-130	9	25	
Acrylonitrile	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	5	25	
Benzene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130	0.7	25	

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905249

Quality Control Data

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BE92112 - 5035										
Bromobenzene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	4	25	
Bromochloromethane	0.0441	0.0050	mg/kg wet	0.05000		88	70-130	2	25	
Bromodichloromethane	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	1	25	
Bromoform	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	2	25	
Bromomethane	0.0499	0.0100	mg/kg wet	0.05000		100	70-130	0.8	25	
Carbon Disulfide	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	3	25	
Carbon Tetrachloride	0.0454	0.0050	mg/kg wet	0.05000		91	70-130	1	25	
Chlorobenzene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130	0.6	25	
Chloroethane	0.0459	0.0100	mg/kg wet	0.05000		92	70-130	4	25	
Chloroform	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	2	25	
Chloromethane	0.0431	0.0100	mg/kg wet	0.05000		86	70-130	1	25	
cis-1,2-Dichloroethene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130	0.7	25	
cis-1,3-Dichloropropene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130	3	25	
Dibromochloromethane	0.0502	0.0050	mg/kg wet	0.05000		100	70-130	1	25	
Dibromomethane	0.0463	0.0050	mg/kg wet	0.05000		93	70-130	5	25	
Dichlorodifluoromethane	0.0379	0.0100	mg/kg wet	0.05000		76	70-130	3	25	
Diethyl Ether	0.0337	0.0050	mg/kg wet	0.05000		67	70-130	9	25	B-
Di-isopropyl ether	0.0476	0.0050	mg/kg wet	0.05000		95	70-130	2	25	
Ethyl tertiary-butyl ether	0.0417	0.0050	mg/kg wet	0.05000		83	70-130	2	25	
Ethylbenzene	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	2	25	
Hexachlorobutadiene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130	0.3	25	
Isopropylbenzene	0.0415	0.0050	mg/kg wet	0.05000		83	70-130	0.7	25	
Methyl tert-Butyl Ether	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	2	25	
Methylene Chloride	0.0498	0.0250	mg/kg wet	0.05000		100	70-130	0.4	25	
Naphthalene	0.0449	0.0050	mg/kg wet	0.05000		90	70-130	6	25	
n-Butylbenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	1	25	
n-Propylbenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	3	25	
sec-Butylbenzene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130	1	25	
Styrene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	4	25	
tert-Butylbenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130	1	25	
Tertiary-amyl methyl ether	0.0440	0.0050	mg/kg wet	0.05000		88	70-130	4	25	
Tetrachloroethene	0.0510	0.0050	mg/kg wet	0.05000		102	70-130	2	25	
Tetrahydrofuran	0.0436	0.0050	mg/kg wet	0.05000		87	70-130	0.8	25	
Toluene	0.0448	0.0050	mg/kg wet	0.05000		90	70-130	6	25	
trans-1,2-Dichloroethene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	3	25	
trans-1,3-Dichloropropene	0.0414	0.0050	mg/kg wet	0.05000		83	70-130	4	25	
Trans-1,4-Dichloro-2-Butene	0.0393	0.0050	mg/kg wet	0.05000		79	70-130	5	25	
Trichloroethene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	0.6	25	
Trichlorofluoromethane	0.0405	0.0050	mg/kg wet	0.05000		81	70-130	0.8	25	
Vinyl Chloride	0.0457	0.0100	mg/kg wet	0.05000		91	70-130	1	25	
Xylene O	0.0496	0.0050	mg/kg wet	0.05000		99	70-130	0.2	25	
Xylene P,M	0.0958	0.0100	mg/kg wet	0.1000		96	70-130	0.06	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0444*		mg/kg wet	*0.05000*		*89*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0503*		mg/kg wet	*0.05000*		*101*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0441*		mg/kg wet	*0.05000*		*88*	*70-130*			
Surrogate: Toluene-d8	*0.0517*		mg/kg wet	*0.05000*		*103*	*70-130*			

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905249

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BE92010 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.100	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0500	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.0500	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0500	mg/kg wet							
1,1-Dichloroethane	ND	0.0500	mg/kg wet							
1,1-Dichloroethene	ND	0.0500	mg/kg wet							
1,1-Dichloropropene	ND	0.0500	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0500	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0500	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0500	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0500	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.300	mg/kg wet							
1,2-Dibromoethane	ND	0.0500	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,2-Dichloroethane	ND	0.0500	mg/kg wet							
1,2-Dichloropropane	ND	0.0500	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0500	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,3-Dichloropropane	ND	0.0500	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0500	mg/kg wet							
1,4-Dioxane - Screen	ND	5.00	mg/kg wet							
2,2-Dichloropropane	ND	0.100	mg/kg wet							
2-Butanone	ND	1.25	mg/kg wet							
2-Chlorotoluene	ND	0.0500	mg/kg wet							
2-Hexanone	ND	0.500	mg/kg wet							
4-Chlorotoluene	ND	0.0500	mg/kg wet							
4-Isopropyltoluene	ND	0.0500	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.500	mg/kg wet							
Acetone	ND	1.25	mg/kg wet							
Acrylonitrile	ND	0.400	mg/kg wet							
Benzene	ND	0.0500	mg/kg wet							
Bromobenzene	ND	0.0500	mg/kg wet							
Bromochloromethane	ND	0.0500	mg/kg wet							
Bromodichloromethane	ND	0.0500	mg/kg wet							
Bromoform	ND	0.0500	mg/kg wet							
Bromomethane	ND	0.100	mg/kg wet							
Carbon Disulfide	ND	0.0500	mg/kg wet							
Carbon Tetrachloride	ND	0.0500	mg/kg wet							
Chlorobenzene	ND	0.0500	mg/kg wet							
Chloroethane	ND	0.100	mg/kg wet							
Chloroform	ND	0.0500	mg/kg wet							
Chloromethane	ND	0.100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0500	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0500	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905249

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BE92010 - 5035										
Dibromochloromethane	ND	0.0500	mg/kg wet							
Dibromomethane	ND	0.0500	mg/kg wet							
Dichlorodifluoromethane	ND	0.0500	mg/kg wet							
Diethyl Ether	ND	0.0500	mg/kg wet							
Di-isopropyl ether	ND	0.0500	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0500	mg/kg wet							
Ethylbenzene	ND	0.0500	mg/kg wet							
Hexachlorobutadiene	ND	0.0500	mg/kg wet							
Isopropylbenzene	ND	0.0500	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0500	mg/kg wet							
Methylene Chloride	ND	0.250	mg/kg wet							
Naphthalene	ND	0.0500	mg/kg wet							
n-Butylbenzene	ND	0.0500	mg/kg wet							
n-Propylbenzene	ND	0.0500	mg/kg wet							
sec-Butylbenzene	ND	0.0500	mg/kg wet							
Styrene	ND	0.0500	mg/kg wet							
tert-Butylbenzene	ND	0.0500	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0500	mg/kg wet							
Tetrachloroethene	ND	0.0500	mg/kg wet							
Tetrahydrofuran	ND	0.500	mg/kg wet							
Toluene	ND	0.0500	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0500	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0500	mg/kg wet							
Trans-1,4-Dichloro-2-Butene	ND	0.500	mg/kg wet							
Trichloroethene	ND	0.0500	mg/kg wet							
Trichlorofluoromethane	ND	0.0500	mg/kg wet							
Vinyl Chloride	ND	0.0500	mg/kg wet							
Xylene O	ND	0.0500	mg/kg wet							
Xylene P,M	ND	0.100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*2.27*		mg/kg wet	*2.500*		*91*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.26*		mg/kg wet	*2.500*		*90*	*70-130*			
Surrogate: Dibromofluoromethane	*2.45*		mg/kg wet	*2.500*		*98*	*70-130*			
Surrogate: Toluene-d8	*2.34*		mg/kg wet	*2.500*		*94*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	2.46	0.100	mg/kg wet	2.500		99	70-130			
1,1,1-Trichloroethane	2.48	0.0500	mg/kg wet	2.500		99	70-130			
1,1,2,2-Tetrachloroethane	2.29	0.0500	mg/kg wet	2.500		92	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane	2.43	0.0500	mg/kg wet	2.500		97	70-130			
1,1,2-Trichloroethane	2.38	0.0500	mg/kg wet	2.500		95	70-130			
1,1-Dichloroethane	2.48	0.0500	mg/kg wet	2.500		99	70-130			
1,1-Dichloroethene	2.50	0.0500	mg/kg wet	2.500		100	70-130			
1,1-Dichloropropene	2.49	0.0500	mg/kg wet	2.500		100	70-130			
1,2,3-Trichlorobenzene	2.45	0.0500	mg/kg wet	2.500		98	70-130			
1,2,3-Trichloropropane	2.29	0.0500	mg/kg wet	2.500		92	70-130			
1,2,4-Trichlorobenzene	2.45	0.0500	mg/kg wet	2.500		98	70-130			
1,2,4-Trimethylbenzene	2.45	0.0500	mg/kg wet	2.500		98	70-130			

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905249

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BE92010 - 5035										
1,2-Dibromo-3-Chloropropane	2.52	0.300	mg/kg wet	2.500		101	70-130			
1,2-Dibromoethane	2.40	0.0500	mg/kg wet	2.500		96	70-130			
1,2-Dichlorobenzene	2.42	0.0500	mg/kg wet	2.500		97	70-130			
1,2-Dichloroethane	2.42	0.0500	mg/kg wet	2.500		97	70-130			
1,2-Dichloropropane	2.45	0.0500	mg/kg wet	2.500		98	70-130			
1,3,5-Trimethylbenzene	2.43	0.0500	mg/kg wet	2.500		97	70-130			
1,3-Dichlorobenzene	2.44	0.0500	mg/kg wet	2.500		98	70-130			
1,3-Dichloropropane	2.46	0.0500	mg/kg wet	2.500		99	70-130			
1,4-Dichlorobenzene	2.38	0.0500	mg/kg wet	2.500		95	70-130			
1,4-Dioxane - Screen	68.7	5.00	mg/kg wet	50.00		137	44-241			
2,2-Dichloropropane	2.75	0.100	mg/kg wet	2.500		110	70-130			
2-Butanone	12.3	1.25	mg/kg wet	12.50		98	70-130			
2-Chlorotoluene	2.29	0.0500	mg/kg wet	2.500		92	70-130			
2-Hexanone	11.8	0.500	mg/kg wet	12.50		94	70-130			
4-Chlorotoluene	2.38	0.0500	mg/kg wet	2.500		95	70-130			
4-Isopropyltoluene	2.35	0.0500	mg/kg wet	2.500		94	70-130			
4-Methyl-2-Pentanone	11.9	0.500	mg/kg wet	12.50		95	70-130			
Acetone	10.9	1.25	mg/kg wet	12.50		87	70-130			
Acrylonitrile	2.45	0.400	mg/kg wet	2.500		98	70-130			
Benzene	2.44	0.0500	mg/kg wet	2.500		98	70-130			
Bromobenzene	2.46	0.0500	mg/kg wet	2.500		98	70-130			
Bromochloromethane	2.37	0.0500	mg/kg wet	2.500		95	70-130			
Bromodichloromethane	2.57	0.0500	mg/kg wet	2.500		103	70-130			
Bromoform	2.44	0.0500	mg/kg wet	2.500		97	70-130			
Bromomethane	2.96	0.100	mg/kg wet	2.500		118	70-130			
Carbon Disulfide	2.54	0.0500	mg/kg wet	2.500		102	70-130			
Carbon Tetrachloride	2.50	0.0500	mg/kg wet	2.500		100	70-130			
Chlorobenzene	2.43	0.0500	mg/kg wet	2.500		97	70-130			
Chloroethane	2.59	0.100	mg/kg wet	2.500		104	70-130			
Chloroform	2.48	0.0500	mg/kg wet	2.500		99	70-130			
Chloromethane	2.06	0.100	mg/kg wet	2.500		82	70-130			
cis-1,2-Dichloroethene	2.48	0.0500	mg/kg wet	2.500		99	70-130			
cis-1,3-Dichloropropene	2.57	0.0500	mg/kg wet	2.500		103	70-130			
Dibromochloromethane	2.53	0.0500	mg/kg wet	2.500		101	70-130			
Dibromomethane	2.39	0.0500	mg/kg wet	2.500		96	70-130			
Dichlorodifluoromethane	2.09	0.0500	mg/kg wet	2.500		84	70-130			
Diethyl Ether	1.97	0.0500	mg/kg wet	2.500		79	70-130			
Di-isopropyl ether	2.51	0.0500	mg/kg wet	2.500		100	70-130			
Ethyl tertiary-butyl ether	2.42	0.0500	mg/kg wet	2.500		97	70-130			
Ethylbenzene	2.45	0.0500	mg/kg wet	2.500		98	70-130			
Hexachlorobutadiene	2.57	0.0500	mg/kg wet	2.500		103	70-130			
Isopropylbenzene	2.12	0.0500	mg/kg wet	2.500		85	70-130			
Methyl tert-Butyl Ether	2.43	0.0500	mg/kg wet	2.500		97	70-130			
Methylene Chloride	2.46	0.250	mg/kg wet	2.500		98	70-130			
Naphthalene	2.39	0.0500	mg/kg wet	2.500		96	70-130			
n-Butylbenzene	2.51	0.0500	mg/kg wet	2.500		100	70-130			

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905249

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BE92010 - 5035										
n-Propylbenzene	2.53	0.0500	mg/kg wet	2.500		101	70-130			
sec-Butylbenzene	2.46	0.0500	mg/kg wet	2.500		98	70-130			
Styrene	2.49	0.0500	mg/kg wet	2.500		99	70-130			
tert-Butylbenzene	2.54	0.0500	mg/kg wet	2.500		102	70-130			
Tertiary-amyl methyl ether	2.37	0.0500	mg/kg wet	2.500		95	70-130			
Tetrachloroethene	2.19	0.0500	mg/kg wet	2.500		88	70-130			
Tetrahydrofuran	2.16	0.500	mg/kg wet	2.500		86	70-130			
Toluene	2.44	0.0500	mg/kg wet	2.500		98	70-130			
trans-1,2-Dichloroethene	2.65	0.0500	mg/kg wet	2.500		106	70-130			
trans-1,3-Dichloropropene	2.27	0.0500	mg/kg wet	2.500		91	70-130			
Trans-1,4-Dichloro-2-Butene	2.51	0.500	mg/kg wet	2.500		100	70-130			
Trichloroethene	2.46	0.0500	mg/kg wet	2.500		98	70-130			
Trichlorofluoromethane	2.18	0.0500	mg/kg wet	2.500		87	70-130			
Vinyl Chloride	2.49	0.0500	mg/kg wet	2.500		100	70-130			
Xylene O	2.46	0.0500	mg/kg wet	2.500		99	70-130			
Xylene P,M	4.92	0.100	mg/kg wet	5.000		98	70-130			
Surrogate: 1,2-Dichloroethane-d4	*2.39*		mg/kg wet	*2.500*		*96*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.34*		mg/kg wet	*2.500*		*93*	*70-130*			
Surrogate: Dibromofluoromethane	*2.43*		mg/kg wet	*2.500*		*97*	*70-130*			
Surrogate: Toluene-d8	*2.44*		mg/kg wet	*2.500*		*98*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	2.44	0.100	mg/kg wet	2.500		98	70-130	1	25	
1,1,1-Trichloroethane	2.47	0.0500	mg/kg wet	2.500		99	70-130	0.3	25	
1,1,2,2-Tetrachloroethane	2.34	0.0500	mg/kg wet	2.500		94	70-130	2	25	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.40	0.0500	mg/kg wet	2.500		96	70-130	1	25	
1,1,2-Trichloroethane	2.45	0.0500	mg/kg wet	2.500		98	70-130	3	25	
1,1-Dichloroethane	2.48	0.0500	mg/kg wet	2.500		99	70-130	0.1	25	
1,1-Dichloroethene	2.49	0.0500	mg/kg wet	2.500		99	70-130	0.8	25	
1,1-Dichloropropene	2.48	0.0500	mg/kg wet	2.500		99	70-130	0.2	25	
1,2,3-Trichlorobenzene	2.50	0.0500	mg/kg wet	2.500		100	70-130	2	25	
1,2,3-Trichloropropane	2.46	0.0500	mg/kg wet	2.500		99	70-130	7	25	
1,2,4-Trichlorobenzene	2.46	0.0500	mg/kg wet	2.500		98	70-130	0.4	25	
1,2,4-Trimethylbenzene	2.40	0.0500	mg/kg wet	2.500		96	70-130	2	25	
1,2-Dibromo-3-Chloropropane	2.56	0.300	mg/kg wet	2.500		103	70-130	2	25	
1,2-Dibromoethane	2.44	0.0500	mg/kg wet	2.500		97	70-130	1	25	
1,2-Dichlorobenzene	2.41	0.0500	mg/kg wet	2.500		96	70-130	0.4	25	
1,2-Dichloroethane	2.44	0.0500	mg/kg wet	2.500		97	70-130	0.6	25	
1,2-Dichloropropane	2.46	0.0500	mg/kg wet	2.500		98	70-130	0.4	25	
1,3,5-Trimethylbenzene	2.38	0.0500	mg/kg wet	2.500		95	70-130	2	25	
1,3-Dichlorobenzene	2.39	0.0500	mg/kg wet	2.500		96	70-130	2	25	
1,3-Dichloropropane	2.49	0.0500	mg/kg wet	2.500		100	70-130	1	25	
1,4-Dichlorobenzene	2.36	0.0500	mg/kg wet	2.500		95	70-130	0.7	25	
1,4-Dioxane - Screen	80.2	5.00	mg/kg wet	50.00		160	44-241	16	200	
2,2-Dichloropropane	2.67	0.100	mg/kg wet	2.500		107	70-130	3	25	
2-Butanone	12.8	1.25	mg/kg wet	12.50		102	70-130	4	25	
2-Chlorotoluene	2.36	0.0500	mg/kg wet	2.500		94	70-130	3	25	

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905249

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BE92010 - 5035										
2-Hexanone	12.2	0.500	mg/kg wet	12.50		97	70-130	3	25	
4-Chlorotoluene	2.36	0.0500	mg/kg wet	2.500		95	70-130	0.7	25	
4-Isopropyltoluene	2.30	0.0500	mg/kg wet	2.500		92	70-130	2	25	
4-Methyl-2-Pentanone	12.4	0.500	mg/kg wet	12.50		99	70-130	4	25	
Acetone	11.1	1.25	mg/kg wet	12.50		89	70-130	1	25	
Acrylonitrile	2.61	0.400	mg/kg wet	2.500		104	70-130	6	25	
Benzene	2.45	0.0500	mg/kg wet	2.500		98	70-130	0.3	25	
Bromobenzene	2.46	0.0500	mg/kg wet	2.500		98	70-130	0.2	25	
Bromochloromethane	2.36	0.0500	mg/kg wet	2.500		94	70-130	0.5	25	
Bromodichloromethane	2.58	0.0500	mg/kg wet	2.500		103	70-130	0.2	25	
Bromoform	2.49	0.0500	mg/kg wet	2.500		99	70-130	2	25	
Bromomethane	2.85	0.100	mg/kg wet	2.500		114	70-130	4	25	
Carbon Disulfide	2.50	0.0500	mg/kg wet	2.500		100	70-130	2	25	
Carbon Tetrachloride	2.47	0.0500	mg/kg wet	2.500		99	70-130	1	25	
Chlorobenzene	2.41	0.0500	mg/kg wet	2.500		96	70-130	0.8	25	
Chloroethane	2.41	0.100	mg/kg wet	2.500		97	70-130	7	25	
Chloroform	2.47	0.0500	mg/kg wet	2.500		99	70-130	0.2	25	
Chloromethane	2.07	0.100	mg/kg wet	2.500		83	70-130	0.4	25	
cis-1,2-Dichloroethene	2.50	0.0500	mg/kg wet	2.500		100	70-130	0.6	25	
cis-1,3-Dichloropropene	2.57	0.0500	mg/kg wet	2.500		103	70-130	0.1	25	
Dibromochloromethane	2.56	0.0500	mg/kg wet	2.500		102	70-130	1	25	
Dibromomethane	2.41	0.0500	mg/kg wet	2.500		96	70-130	0.8	25	
Dichlorodifluoromethane	2.05	0.0500	mg/kg wet	2.500		82	70-130	2	25	
Diethyl Ether	2.01	0.0500	mg/kg wet	2.500		80	70-130	2	25	
Di-isopropyl ether	2.52	0.0500	mg/kg wet	2.500		101	70-130	0.3	25	
Ethyl tertiary-butyl ether	2.46	0.0500	mg/kg wet	2.500		99	70-130	2	25	
Ethylbenzene	2.41	0.0500	mg/kg wet	2.500		97	70-130	2	25	
Hexachlorobutadiene	2.56	0.0500	mg/kg wet	2.500		102	70-130	0.4	25	
Isopropylbenzene	2.09	0.0500	mg/kg wet	2.500		84	70-130	2	25	
Methyl tert-Butyl Ether	2.51	0.0500	mg/kg wet	2.500		100	70-130	3	25	
Methylene Chloride	2.47	0.250	mg/kg wet	2.500		99	70-130	0.4	25	
Naphthalene	2.45	0.0500	mg/kg wet	2.500		98	70-130	3	25	
n-Butylbenzene	2.44	0.0500	mg/kg wet	2.500		97	70-130	3	25	
n-Propylbenzene	2.39	0.0500	mg/kg wet	2.500		96	70-130	6	25	
sec-Butylbenzene	2.42	0.0500	mg/kg wet	2.500		97	70-130	1	25	
Styrene	2.47	0.0500	mg/kg wet	2.500		99	70-130	0.8	25	
tert-Butylbenzene	2.51	0.0500	mg/kg wet	2.500		100	70-130	1	25	
Tertiary-amyl methyl ether	2.44	0.0500	mg/kg wet	2.500		97	70-130	3	25	
Tetrachloroethene	2.15	0.0500	mg/kg wet	2.500		86	70-130	2	25	
Tetrahydrofuran	2.28	0.500	mg/kg wet	2.500		91	70-130	6	25	
Toluene	2.43	0.0500	mg/kg wet	2.500		97	70-130	0.3	25	
trans-1,2-Dichloroethene	2.65	0.0500	mg/kg wet	2.500		106	70-130	0.04	25	
trans-1,3-Dichloropropene	2.29	0.0500	mg/kg wet	2.500		92	70-130	1	25	
Trans-1,4-Dichloro-2-Butene	2.52	0.500	mg/kg wet	2.500		101	70-130	0.4	25	
Trichloroethene	2.45	0.0500	mg/kg wet	2.500		98	70-130	0.5	25	
Trichlorofluoromethane	2.15	0.0500	mg/kg wet	2.500		86	70-130	2	25	

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905249

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch BE92010 - 5035										
Vinyl Chloride	2.50	0.0500	mg/kg wet	2.500		100	70-130	0.1	25	
Xylene O	2.44	0.0500	mg/kg wet	2.500		98	70-130	0.7	25	
Xylene P,M	4.86	0.100	mg/kg wet	5.000		97	70-130	1	25	
Surrogate: 1,2-Dichloroethane-d4	*2.41*		mg/kg wet	*2.500*		*96*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.33*		mg/kg wet	*2.500*		*93*	*70-130*			
Surrogate: Dibromofluoromethane	*2.44*		mg/kg wet	*2.500*		*98*	*70-130*			
Surrogate: Toluene-d8	*2.42*		mg/kg wet	*2.500*		*97*	*70-130*			
8270C Polynuclear Aromatic Hydrocarbons										
Batch BE92113 - 3546										
Blank										
2-Methylnaphthalene	ND	0.333	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.55*		mg/kg wet	*3.333*		*77*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.94*		mg/kg wet	*3.333*		*88*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.46*		mg/kg wet	*3.333*		*74*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.36*		mg/kg wet	*3.333*		*101*	*30-130*			
LCS										
2-Methylnaphthalene	2.89	0.333	mg/kg wet	3.333		87	40-140			
Acenaphthene	2.84	0.333	mg/kg wet	3.333		85	40-140			
Acenaphthylene	2.54	0.333	mg/kg wet	3.333		76	40-140			
Anthracene	3.12	0.333	mg/kg wet	3.333		93	40-140			
Benzo(a)anthracene	3.40	0.333	mg/kg wet	3.333		102	40-140			
Benzo(a)pyrene	3.13	0.167	mg/kg wet	3.333		94	40-140			
Benzo(b)fluoranthene	3.23	0.333	mg/kg wet	3.333		97	40-140			
Benzo(g,h,i)perylene	3.65	0.333	mg/kg wet	3.333		109	40-140			
Benzo(k)fluoranthene	3.03	0.333	mg/kg wet	3.333		91	40-140			
Chrysene	3.38	0.167	mg/kg wet	3.333		101	40-140			
Dibenzo(a,h)Anthracene	3.47	0.167	mg/kg wet	3.333		104	40-140			
Fluoranthene	3.39	0.333	mg/kg wet	3.333		102	40-140			

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905249

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Polynuclear Aromatic Hydrocarbons										
Batch BE92113 - 3546										
Fluorene	3.16	0.333	mg/kg wet	3.333		95	40-140			
Indeno(1,2,3-cd)Pyrene	3.57	0.333	mg/kg wet	3.333		107	40-140			
Naphthalene	2.60	0.333	mg/kg wet	3.333		78	40-140			
Phenanthrene	2.83	0.333	mg/kg wet	3.333		85	40-140			
Pyrene	3.46	0.333	mg/kg wet	3.333		104	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.57*		mg/kg wet	*3.333*		*77*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.69*		mg/kg wet	*3.333*		*81*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.37*		mg/kg wet	*3.333*		*71*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.34*		mg/kg wet	*3.333*		*100*	*30-130*			
LCS Dup										
2-Methylnaphthalene	3.16	0.333	mg/kg wet	3.333		95	40-140	9	30	
Acenaphthene	2.90	0.333	mg/kg wet	3.333		87	40-140	2	30	
Acenaphthylene	2.58	0.333	mg/kg wet	3.333		78	40-140	2	30	
Anthracene	3.05	0.333	mg/kg wet	3.333		91	40-140	2	30	
Benzo(a)anthracene	3.23	0.333	mg/kg wet	3.333		97	40-140	5	30	
Benzo(a)pyrene	3.04	0.167	mg/kg wet	3.333		91	40-140	3	30	
Benzo(b)fluoranthene	2.84	0.333	mg/kg wet	3.333		85	40-140	13	30	
Benzo(g,h,i)perylene	3.50	0.333	mg/kg wet	3.333		105	40-140	4	30	
Benzo(k)fluoranthene	3.30	0.333	mg/kg wet	3.333		99	40-140	9	30	
Chrysene	3.19	0.167	mg/kg wet	3.333		96	40-140	6	30	
Dibenzo(a,h)Anthracene	3.53	0.167	mg/kg wet	3.333		106	40-140	2	30	
Fluoranthene	3.19	0.333	mg/kg wet	3.333		96	40-140	6	30	
Fluorene	3.20	0.333	mg/kg wet	3.333		96	40-140	1	30	
Indeno(1,2,3-cd)Pyrene	3.38	0.333	mg/kg wet	3.333		101	40-140	6	30	
Naphthalene	2.79	0.333	mg/kg wet	3.333		84	40-140	7	30	
Phenanthrene	2.77	0.333	mg/kg wet	3.333		83	40-140	2	30	
Pyrene	3.33	0.333	mg/kg wet	3.333		100	40-140	4	30	
Surrogate: 1,2-Dichlorobenzene-d4	*2.74*		mg/kg wet	*3.333*		*82*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*3.05*		mg/kg wet	*3.333*		*91*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.48*		mg/kg wet	*3.333*		*74*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.22*		mg/kg wet	*3.333*		*97*	*30-130*			
Matrix Spike **Source: 0905249-03**										
2-Methylnaphthalene	3.23	0.381	mg/kg dry	3.816	ND	85	40-140			
Acenaphthene	3.07	0.381	mg/kg dry	3.816	ND	80	40-140			
Acenaphthylene	2.64	0.381	mg/kg dry	3.816	ND	69	40-140			
Anthracene	3.49	0.381	mg/kg dry	3.816	ND	91	40-140			
Benzo(a)anthracene	4.26	0.381	mg/kg dry	3.816	ND	112	40-140			
Benzo(a)pyrene	3.69	0.191	mg/kg dry	3.816	0.064	95	40-140			
Benzo(b)fluoranthene	4.03	0.381	mg/kg dry	3.816	ND	106	40-140			
Benzo(g,h,i)perylene	3.95	0.381	mg/kg dry	3.816	ND	104	40-140			
Benzo(k)fluoranthene	3.18	0.381	mg/kg dry	3.816	ND	83	40-140			
Chrysene	4.11	0.191	mg/kg dry	3.816	0.073	106	40-140			
Dibenzo(a,h)Anthracene	3.75	0.191	mg/kg dry	3.816	ND	98	40-140			
Fluoranthene	5.00	0.381	mg/kg dry	3.816	0.143	127	40-140			
Fluorene	3.44	0.381	mg/kg dry	3.816	ND	90	40-140			
Indeno(1,2,3-cd)Pyrene	3.69	0.381	mg/kg dry	3.816	ND	97	40-140			

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905249

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Polynuclear Aromatic Hydrocarbons										
Batch BE92113 - 3546										
Naphthalene	2.75	0.381	mg/kg dry	3.816	ND	72	40-140			
Phenanthrene	3.87	0.381	mg/kg dry	3.816	ND	101	40-140			
Pyrene	4.76	0.381	mg/kg dry	3.816	0.133	121	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.54*		mg/kg dry	*3.816*		*66*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*3.22*		mg/kg dry	*3.816*		*85*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.40*		mg/kg dry	*3.816*		*63*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.30*		mg/kg dry	*3.816*		*86*	*30-130*			
Matrix Spike Dup Source: 0905249-03										
2-Methylnaphthalene	3.36	0.379	mg/kg dry	3.789	ND	89	40-140	4	30	
Acenaphthene	3.16	0.379	mg/kg dry	3.789	ND	83	40-140	3	30	
Acenaphthylene	2.78	0.379	mg/kg dry	3.789	ND	73	40-140	5	30	
Anthracene	3.47	0.379	mg/kg dry	3.789	ND	91	40-140	0.7	30	
Benzo(a)anthracene	3.84	0.379	mg/kg dry	3.789	ND	101	40-140	10	30	
Benzo(a)pyrene	3.44	0.190	mg/kg dry	3.789	0.064	89	40-140	7	30	
Benzo(b)fluoranthene	3.49	0.379	mg/kg dry	3.789	ND	92	40-140	14	30	
Benzo(g,h,i)perylene	4.03	0.379	mg/kg dry	3.789	ND	106	40-140	2	30	
Benzo(k)fluoranthene	3.43	0.379	mg/kg dry	3.789	ND	91	40-140	7	30	
Chrysene	3.80	0.190	mg/kg dry	3.789	0.073	98	40-140	8	30	
Dibenzo(a,h)Anthracene	3.77	0.190	mg/kg dry	3.789	ND	100	40-140	0.7	30	
Fluoranthene	3.86	0.379	mg/kg dry	3.789	0.143	98	40-140	26	30	
Fluorene	3.58	0.379	mg/kg dry	3.789	ND	94	40-140	4	30	
Indeno(1,2,3-cd)Pyrene	3.92	0.379	mg/kg dry	3.789	ND	103	40-140	6	30	
Naphthalene	2.89	0.379	mg/kg dry	3.789	ND	76	40-140	5	30	
Phenanthrene	3.25	0.379	mg/kg dry	3.789	ND	86	40-140	17	30	
Pyrene	3.96	0.379	mg/kg dry	3.789	0.133	101	40-140	18	30	
Surrogate: 1,2-Dichlorobenzene-d4	*2.85*		mg/kg dry	*3.789*		*75*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*3.23*		mg/kg dry	*3.789*		*85*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.57*		mg/kg dry	*3.789*		*68*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.70*		mg/kg dry	*3.789*		*98*	*30-130*			
8100M Extractable Total Petroleum Hydrocarbons										
Batch BE91928 - 3546										
Blank										
Total Petroleum Hydrocarbons	ND	20.0	mg/kg wet							
Surrogate: O-Terphenyl	*4.30*		mg/kg wet	*5.000*		*86*	*50-150*			
LCS										
Total Petroleum Hydrocarbons	29.8	20.0	mg/kg wet	35.00		85	60-120			
Surrogate: O-Terphenyl	*4.09*		mg/kg wet	*5.000*		*82*	*50-150*			
LCS Dup										
Total Petroleum Hydrocarbons	31.5	20.0	mg/kg wet	35.00		90	60-120	5	30	
Surrogate: O-Terphenyl	*4.24*		mg/kg wet	*5.000*		*85*	*50-150*			
Batch BE91932 - 3546										

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905249

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8100M Extractable Total Petroleum Hydrocarbons										
Batch BE91932 - 3546										
Blank										
Total Petroleum Hydrocarbons	ND	20.0	mg/kg wet							
Surrogate: O-Terphenyl	*4.54*		mg/kg wet	*5.000*		*91*	*50-150*			
LCS										
Total Petroleum Hydrocarbons	37.5	20.0	mg/kg wet	35.00		107	60-120			
Surrogate: O-Terphenyl	*5.00*		mg/kg wet	*5.000*		*100*	*50-150*			
LCS Dup										
Total Petroleum Hydrocarbons	36.9	20.0	mg/kg wet	35.00		105	60-120	2	30	
Surrogate: O-Terphenyl	*4.91*		mg/kg wet	*5.000*		*98*	*50-150*			
Matrix Spike **Source: 0905249-01**										
Total Petroleum Hydrocarbons	7990	224	mg/kg dry	39.13	10200	NR	50-150			M-
Surrogate: O-Terphenyl	*ND*		mg/kg dry	*5.590*			*50-150*			*SC*
Matrix Spike Dup **Source: 0905249-01**										
Total Petroleum Hydrocarbons	8370	230	mg/kg dry	40.33	10200	NR	50-150	5	30	M-
Surrogate: O-Terphenyl	*ND*		mg/kg dry	*5.762*			*50-150*			*SC*
Batch BE92125 - 3546										
Blank										
Total Petroleum Hydrocarbons	ND	20.0	mg/kg wet							
Surrogate: O-Terphenyl	*4.05*		mg/kg wet	*5.000*		*81*	*50-150*			
LCS										
Total Petroleum Hydrocarbons	32.6	20.0	mg/kg wet	35.00		93	60-120			
Surrogate: O-Terphenyl	*4.25*		mg/kg wet	*5.000*		*85*	*50-150*			
LCS Dup										
Total Petroleum Hydrocarbons	32.4	20.0	mg/kg wet	35.00		93	60-120	0.4	30	
Surrogate: O-Terphenyl	*4.07*		mg/kg wet	*5.000*		*81*	*50-150*			

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\TPH GC2\DATA\052009\G2R05283.D Vial: 100
Acq On : 20 May 2009 11:46 Operator: ML
Sample : TPH 100 Inst : GC2
Misc : Multiplr: 1.00
IntFile : events.e

Method : Q:\SVOA\TPH GC2\METHODS\8100RCG.M (Chemstation Integrator)
Title : ELEMENT ID: 0502007
Last Update : Sat May 02 12:58:58 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1		C9	32.718	30.948 E3	5.4	99	0.00
2		C10	31.065	30.740 E3	1.0	100	0.00
3		C12	28.987	30.865 E3	-6.5	100	-0.01
4		C14	29.580	31.452 E3	-6.3	100	-0.01
5		C16	31.330	31.970 E3	-2.0	100	-0.01
6		C18	31.654	32.136 E3	-1.5	100	-0.01
7		C19	32.684	32.397 E3	0.9	100	-0.01
8		C20	32.463	32.270 E3	0.6	101	-0.01
9		C22	33.512	32.630 E3	2.6	101	-0.01
10		C24	33.477	32.305 E3	3.5	101	-0.01
11		C26	33.915	32.815 E3	3.2	100	-0.01
12		C28	33.627	32.765 E3	2.6	100	-0.01
13		C30	33.414	32.855 E3	1.7	100	-0.01
14		C36	25.353	31.176 E3	-23.0#	101	-0.02
15	S	O-Terphenyl	35.429	35.088 E3	1.0	101	-0.01
16	H	C9-C36	40.794	33.019 E3	19.1	101	0.00

AVG RF = 31.698
+/-20% = 25.359-38.038 ALL WITHIN
+/-50% = 15.849-47.547

Evaluate Continuing Calibration Report - Not Founds

Data File : Q:\SVOA\TPH GC2\DATA\052009\G2R05283.D Vial: 100
Acq On : 20 May 2009 11:46 Operator: ML
Sample : TPH 100 Inst : GC2
Misc : Multiplr: 1.00
IntFile : events.e

Method : Q:\SVOA\TPH GC2\METHODS\8100RCG.M (Chemstation Integrator)
Title : ELEMENT ID: 0502007
Last Update : Sat May 02 12:58:58 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
17	H	C10-C28	35.895	0.000 E3	100.0#	0#	-13.63#

(#) = Out of Range SPCC's out = 0 CCC's out = 0
G2R05124.D 8100RCG.M Thu May 21 06:39:14 2009

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\TPH GC2\DATA\052009\G2F07065.D Vial: 99
Acq On : 20 May 2009 14:07 Operator: ML
Sample : TPH 50 Inst : GC2
Misc : Multiplr: 1.00
IntFile : events.e

Method : Q:\SVOA\TPH GC2\METHODS\8100FDT.M (Chemstation Integrator)
Title : ELEMENT ID: 0502007
Last Update : Sat May 02 12:03:04 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	C9	36.930	39.916 E3	-8.1	110	0.00
2	C10	37.786	41.195 E3	-9.0	110	0.00
3	C12	37.844	42.596 E3	-12.6	110	-0.01
4	C14	39.146	44.234 E3	-13.0	108	-0.02
5	C16	41.216	45.705 E3	-10.9	108	-0.02
6	C18	42.726	46.454 E3	-8.7	107	-0.02
7	C19	43.774	46.453 E3	-6.1	106	-0.03
8	C20	43.804	46.774 E3	-6.8	106	-0.02
9	C22	44.757	47.522 E3	-6.2	105	-0.03
10	C24	44.106	47.085 E3	-6.8	105	-0.03
11	C26	44.904	48.062 E3	-7.0	105	-0.03
12	C28	44.478	48.129 E3	-8.2	106	-0.03
13	C30	43.582	48.250 E3	-10.7	106	-0.03
14	C36	31.621	46.343 E3	-46.6#	114	-0.04
15 S	O-Terphenyl	47.832	51.031 E3	-6.7	107	-0.03
16 H	C9-C36	48.989	47.820 E3	2.4	109	0.00

AVG RF = 41.19
+/-20% = 32.952-49.428 ALL WITHIN

Evaluate Continuing Calibration Report - Not Founds

Data File : Q:\SVOA\TPH GC2\DATA\052009\G2F07065.D Vial: 99
Acq On : 20 May 2009 14:07 Operator: ML
Sample : TPH 50 Inst : GC2
Misc : Multiplr: 1.00
IntFile : events.e

Method : Q:\SVOA\TPH GC2\METHODS\8100FDT.M (Chemstation Integrator)
Title : ELEMENT ID: 0502007
Last Update : Sat May 02 12:03:04 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
17 H	C10-C28	46.170	0.000 E3	100.0#	0#	-11.78#

(#) = Out of Range SPCC's out = 0 CCC's out = 0
G2F06829.D 8100FDT.M Thu May 21 06:21:05 2009

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\TPH GC2\DATA\052109\G2F07088.D Vial: 99
Acq On : 21 May 2009 07:35 Operator: ML
Sample : TPH 50 Inst : GC2
Misc : Multiplr: 1.00
IntFile : events.e

Method : Q:\SVOA\TPH GC2\METHODS\8100FDT.M (Chemstation Integrator)
Title : ELEMENT ID: 0502007
Last Update : Sat May 02 12:03:04 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	C9	36.930	36.152 E3	2.1	99	0.00
2	C10	37.786	37.399 E3	1.0	100	-0.01
3	C12	37.844	38.780 E3	-2.5	100	-0.02
4	C14	39.146	40.302 E3	-3.0	99	-0.03
5	C16	41.216	41.553 E3	-0.8	98	-0.03
6	C18	42.726	42.282 E3	1.0	97	-0.03
7	C19	43.774	42.293 E3	3.4	96	-0.04
8	C20	43.804	42.450 E3	3.1	96	-0.03
9	C22	44.757	43.068 E3	3.8	96	-0.04
10	C24	44.106	42.871 E3	2.8	96	-0.04
11	C26	44.904	43.654 E3	2.8	96	-0.04
12	C28	44.478	43.680 E3	1.8	96	-0.04
13	C30	43.582	43.721 E3	-0.3	96	-0.04
14	C36	31.621	41.336 E3	-30.7#	102	-0.05
15 S	O-Terphenyl	47.832	46.280 E3	3.2	97	-0.04
16 H	C9-C36	48.989	43.361 E3	11.5	99	0.00

AVG RF = 41.19
+/-20% = 32.952-49.428 ALL WITHIN

Evaluate Continuing Calibration Report - Not Founds

Data File : Q:\SVOA\TPH GC2\DATA\052109\G2F07088.D Vial: 99
Acq On : 21 May 2009 07:35 Operator: ML
Sample : TPH 50 Inst : GC2
Misc : Multiplr: 1.00
IntFile : events.e

Method : Q:\SVOA\TPH GC2\METHODS\8100FDT.M (Chemstation Integrator)
Title : ELEMENT ID: 0502007
Last Update : Sat May 02 12:03:04 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
17 H	C10-C28	46.170	0.000 E3	100.0#	0#	-11.78#

(#) = Out of Range SPCC's out = 0 CCC's out = 0
G2F06829.D 8100FDT.M Thu May 21 11:12:48 2009

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill ESS Laboratory Work Order: 0905249

Notes and Definitions

U	Analyte included in the analysis, but not detected
SC	Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results.
S-	Surrogate recovery(ies) below lower control limit.
M+	Matrix Spike recovery is above upper control limit.
M-	Matrix Spike recovery is below lower control limit.
D+	Relative percent difference for duplicate is outside of criteria.
D	Diluted.
B-	Blank Spike recovery is below lower control limit.
4	VOA sample could not be run by the low level method due to matrix interferences.
ND	Analyte NOT DETECTED above the detection limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill ESS Laboratory Work Order: 0905249

ESS LABORATORY CERTIFICATIONS

U.S. Army Corps of Engineers
Soil and Water

Rhode Island: A-179
Potable and Non Potable Water
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut: PH-0750
Potable and Non Potable Water, Solid and Hazardous Waste
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine: RI002
Potable and Non Potable Water
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts: M-RI002
Potable and Non Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited): 242405
Potable and Non PotableWater
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited): 11313
Potable and Non Potable Water, Solid and Hazardous Waste
http://www.wadsworth.org/labcert/elap/comm.html

United States Department of Agriculture
Soil Permit: S-54210

New Jersey (NELAP accredited): RI002
Potable and Non Potable Water, Solid and Hazardous Waste
http://www.nj.gov/dep/oqa/certlabs.htm

Maryland: 301
Potable Water
http://www.mde.state.md.us/assets/document/wsp_labs

South Carolina: 78003
Volatile Organic Compounds in Potable Water

ESS Laboratory

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Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time ✓ Standard Other _____
If faster than 5 days, prior approval by laboratory is required #_____
State where samples were collected from:
MA RI CT NH NJ NY ME Other _____
Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 09105249

Electronic Deliverable ✓ Yes ___ No
Format: Excel ___ Access ___ PDF ✓ Other _____

Co. Name: Advanced Environmental Solutions
Project #:
Project Name (20 Char. or less): Baltic Mill
Contact Person: Mark Deuger
Address: 90 Madison St, Ste 605
City: Worcester State: MA Zip: 01608 PO#: ~~01608~~
Telephone #: 508-363-4882 Fax #: 508-363-4883 Email Address: m.deuger@

Write Required Analysis

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less) Advanced environmental	Pres Code	Number of Containers	Type of Containers	VOC x 8260	ETPH	PAH	VI Metals									
1	5-19-09	0900		X	S	TP-07 (14ft)	6	5	G	X	X	X	X			High		PID = 72				
2	5-19-09	1000		X	S	TP-08 (13ft)	6	5	G	X	X											
3	5-19-09	1000		X	S	TP-08 (4ft)		1	G			X	X									
3	5-19-09	1000		X	S	TP-08 (4ft) MS/MSD		1	G			X	X									
4						Trip Blanks		2	G	X												
5	5-19-09	1300		X	S	TP-11 (4 Ft)		1	G		X	X	X									
6	5-19-09	1315		X	S	TP-12 (2 Ft)		1	G		X	X	X									
7	5-19-09	1330		X	S	TP-15 (2 ft)		1	G		X	X	X									
8	5-19-09	1345		X	S	TP-16 (2 Ft)		1	G		X	X	X									
9	5-19-09	1415		X	S	TP-13 (1 Ft)		1	G		X	X	X									

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 5.5°C

Internal Use Only
[ ] Pickup
[ ] Technicians_____

Preservation Code: 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____
Sampled by: Mark Deuger
Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Mark Deuger	5/19/09 1515	Ralph Bowles	5/19/09 15:15	Ralph Bowles	5/19/09 16:35	[illegible]	5/19/09 16:35
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

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Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time ✓ Standard Other _____
If faster than 5 days, prior approval by laboratory is required #_____
State where samples were collected from: MA RI CT NH NJ NY ME Other _____
Is this project for any of the following: MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 09052449

Electronic Deliverable ___ Yes ___ No
Format: Excel ✓ Access ___ PDF ✓ Other _____

Co. Name: Advanced Environmental Solutions, Inc
Project #: –
Project Name (20 Char. or less): Baltic Mill
Contact Person: Mark Dougher
Address: ~~88 St~~ 90 Madison St, Ste 605
City: Worcester State: MA Zip: 01608 ~~04~~
PO#: —
Telephone #: 508-363-4882 Fax #: 508-363-4883 Email Address:

Write Required Analysis

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	ETPH	PAH	PP Metals
10	5-19-09	1430		X	S	TP-14 (2 Ft)		1	G	X	X	X
11	5-19-09	1430		X	S	TP-14 (8 Ft)		1	G	X	X	X
12	5-19-09	1450		X	S	TP-17 (5 Ft)		1	G	X	X	X
13	5-19-09	1530		X	S	TP-140 (2 Ft)		1	G	X	X	X

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 5.5°C

Internal Use Only
[ ] Pickup
[ ] Technicians_____

Preservation Code: 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____
Sampled by: Mark Dougher
Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Mark S. Dougher	5/19/09 1515	Ralph Bowles	5/19/09 15:15	Ralph Bowles	5/19/09 16:35	[illegible]	5/19/09 16:35
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

PROJECT NARRATIVE

Mark Deuger
Advanced Environmental Solutions, Inc.
90 Madison Street, Suite 605
Worcester, MA 01608

RE: Baltic Mill
ESS Laboratory Work Order Number: 0905266

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this Project Narrative, the entire report has been paginated. The ESS Laboratory Certifications sheet is the final report page. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results. All ICP Metals were analyzed using the established linear dynamic range to determine acceptable analytical results.

ESS Laboratory certifies that the test results meet the requirements of NELAC, except where noted within this project narrative.

To achieve Reasonable Confidence Protocols (RCP) compliance for Connecticut data, ESS laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All RCP requirements have been achieved unless noted in the project narrative.

Question 5: Each method has been set-up in the laboratory to reach required RCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes (ie for GWPC samples, 1,2-Dibromoethane regulatory levels will not be met by VOA 8260. If this is a contaminant of concern Method 8011 will need to be used.). The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

Sample Receipt
The following sample(s) were received on May 20, 2009 for the analyses specified on the enclosed Chain of Custody Record.

Question 6: All samples for SVOA and Metals were analyzed for a subset of the required RCP list per the client's request.

Laboratory ID	Matrix	Client Sample ID
0905266-01	Soil	TP-18 2.5 Ft
0905266-02	Soil	TP-19 2 ft
0905266-03	Soil	TP-22 2ft

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905266

PROJECT NARRATIVE

3050B/6000/7000 Total Metals

BE92014-MS2 **Matrix Spike recovery is below lower control limit.**
Antimony, Lead

8100M Extractable Total Petroleum Hydrocarbons

0905266-02 **Matrix Spike/Matrix Spike Dup do not match sample. Reextraction confirms nonhomogeneity.**

BE92125-MS1 **Matrix Spike recovery is above upper control limit.**
Total Petroleum Hydrocarbons

BE92125-MSD1 **Matrix Spike recovery is above upper control limit.**
Total Petroleum Hydrocarbons

BE92125-MSD1 **Relative percent difference for duplicate is outside of criteria.**
Total Petroleum Hydrocarbons

8270C Polynuclear Aromatic Hydrocarbons

BE92113-MSD2 **Matrix Spike recovery is above upper control limit.**
Fluoranthene

BE92113-MSD2 **Matrix Spike recovery is below lower control limit.**
Phenanthrene, Pyrene

BE92113-MSD2 **Relative percent difference for duplicate is outside of criteria.**
Fluoranthene, Phenanthrene, Pyrene

No other observations noted.

End of Project Narrative.

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905266

Laboratory Analysis
QA/QC Certification Form

Project Number: **N/A**
Sampling Date(s): **5/20/2009**
Laboratory Sample ID(s): **0905266-01 through 0905266-03**

List RCP Methods Used	( ) 8260B	( ) 8151A	(X) ETPH	(X) 6010B	(X) 7470A/1A
Other: _____	(X) 8270C	( ) 8081A	( ) VPH	( ) 6020	( ) 9014M
_____	( ) 8082	( ) 8021B	( ) EPH	(X) 7000 S	( ) 7196A

7841-TL

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria failing outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	Yes No
1A	Were the method specific preservation and holding time requirements met?	Yes No
1B	***VPH and EPH Methods only:*** Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	Yes No N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes No
3	Were samples received at an appropriate temperature (<6º Cº)?	Yes No N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	Yes No Yes No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence." This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Laurel Stoddard

Position: Laboratory Director

Printed Name: Laurel Stoddard

Date: May 28, 2009

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-18 2.5 Ft
Date Sampled: 05/20/09 08:30
Percent Solids: 88

ESS Laboratory Work Order: 0905266
ESS Laboratory Sample ID: 0905266-01
Sample Matrix: Soil

3050B/6000/7000 Total Metals

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.1	6010B	27	1	SVD	05/20/09	1.87	100
Arsenic	**9.0**	mg/kg dry	3.0	6010B	10	1	SVD	05/20/09	1.87	100
Beryllium	ND	mg/kg dry	0.06	6010B	2	1	SVD	05/20/09	1.87	100
Cadmium	ND	mg/kg dry	0.61	6010B	34	1	SVD	05/20/09	1.87	100
Chromium	**8.5**	mg/kg dry	1.2	6010B	3900	1	SVD	05/20/09	1.87	100
Copper	**12.4**	mg/kg dry	1.2	6010B	2500	1	SVD	05/20/09	1.87	100
Lead	**495**	mg/kg dry	6.1	6010B	400	1	SVD	05/20/09	1.87	100
Mercury	ND	mg/kg dry	0.036	7471A	20	1	KAB	05/21/09	0.62	40
Nickel	**7.4**	mg/kg dry	3.0	6010B	1400	1	SVD	05/20/09	1.87	100
Selenium	ND	mg/kg dry	6.1	6010B	340	1	SVD	05/20/09	1.87	100
Silver	ND	mg/kg dry	0.61	6010B	340	1	SVD	05/20/09	1.87	100
Thallium	ND	mg/kg dry	1.50	7841	5.4	5	SVD	05/21/09	1.87	100
Zinc	**17.6**	mg/kg dry	3.0	6010B	20000	1	SVD	05/20/09	1.87	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-18 2.5 Ft
Date Sampled: 05/20/09 08:30
Percent Solids: 88
Initial Volume: 14.5
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0905266
ESS Laboratory Sample ID: 0905266-01
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/21/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	0.391	474	1	05/22/09
Acenaphthene	ND	mg/kg dry	0.391	1000	1	05/22/09
Acenaphthylene	ND	mg/kg dry	0.391	1000	1	05/22/09
Anthracene	ND	mg/kg dry	0.391	1000	1	05/22/09
Benzo(a)anthracene	ND	mg/kg dry	0.391	1	1	05/22/09
Benzo(a)pyrene	ND	mg/kg dry	0.196	1	1	05/22/09
Benzo(b)fluoranthene	ND	mg/kg dry	0.391	1	1	05/22/09
Benzo(g,h,i)perylene	ND	mg/kg dry	0.391	1000	1	05/22/09
Benzo(k)fluoranthene	ND	mg/kg dry	0.391	8.4	1	05/22/09
Chrysene	ND	mg/kg dry	0.196	84	1	05/22/09
Dibenzo(a,h)Anthracene	ND	mg/kg dry	0.196	0.33	1	05/22/09
Fluoranthene	ND	mg/kg dry	0.391	1000	1	05/22/09
Fluorene	ND	mg/kg dry	0.391	1000	1	05/22/09
Indeno(1,2,3-cd)Pyrene	ND	mg/kg dry	0.391	1	1	05/22/09
Naphthalene	ND	mg/kg dry	0.391	1000	1	05/22/09
Phenanthrene	ND	mg/kg dry	0.391	1000	1	05/22/09
Pyrene	ND	mg/kg dry	0.391	1000	1	05/22/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*72 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*74 %*		*30-130*
Surrogate: Nitrobenzene-d5	*68 %*		*30-130*
Surrogate: p-Terphenyl-d14	*83 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-18 2.5 Ft
Date Sampled: 05/20/09 08:30
Percent Solids: 88
Initial Volume: 20.2
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905266
ESS Laboratory Sample ID: 0905266-01
Sample Matrix: Soil
Analyst: ML
Prepared: 05/21/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	ND	mg/kg dry	22.5	500	1	05/21/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*77 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-19 2 ft
Date Sampled: 05/20/09 09:00
Percent Solids: 91

ESS Laboratory Work Order: 0905266
ESS Laboratory Sample ID: 0905266-02
Sample Matrix: Soil

3050B/6000/7000 Total Metals

					CT - RES DEC					
Analyte	**Results**	**Units**	**MRL**	**Method**	**Limit**	**DF**	**Analyst**	**Analyzed**	**I/V**	**F/V**
Antimony	ND	mg/kg dry	6.1	6010B	27	1	SVD	05/21/09	1.81	100
Arsenic	**5.5**	mg/kg dry	3.0	6010B	10	1	SVD	05/21/09	1.81	100
Beryllium	**0.12**	mg/kg dry	0.06	6010B	2	1	SVD	05/21/09	1.81	100
Cadmium	ND	mg/kg dry	0.61	6010B	34	1	SVD	05/21/09	1.81	100
Chromium	**13.2**	mg/kg dry	1.2	6010B	3900	1	SVD	05/21/09	1.81	100
Copper	**16.1**	mg/kg dry	1.2	6010B	2500	1	SVD	05/21/09	1.81	100
Lead	**112**	mg/kg dry	6.1	6010B	400	1	SVD	05/21/09	1.81	100
Mercury	ND	mg/kg dry	0.035	7471A	20	1	KAB	05/21/09	0.63	40
Nickel	**9.5**	mg/kg dry	3.0	6010B	1400	1	SVD	05/21/09	1.81	100
Selenium	ND	mg/kg dry	6.1	6010B	340	1	SVD	05/21/09	1.81	100
Silver	ND	mg/kg dry	0.61	6010B	340	1	SVD	05/21/09	1.81	100
Thallium	ND	mg/kg dry	1.50	7841	5.4	5	SVD	05/21/09	1.81	100
Zinc	**30.4**	mg/kg dry	3.0	6010B	20000	1	SVD	05/21/09	1.81	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-19 2 ft
Date Sampled: 05/20/09 09:00
Percent Solids: 91
Initial Volume: 14.7
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0905266
ESS Laboratory Sample ID: 0905266-02
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/21/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	**0.803**	mg/kg dry	0.373	474	1	05/22/09
Acenaphthene	**1.43**	mg/kg dry	0.373	1000	1	05/22/09
Acenaphthylene	ND	mg/kg dry	0.373	1000	1	05/22/09
Anthracene	**2.80**	mg/kg dry	0.373	1000	1	05/22/09
Benzo(a)anthracene	**4.98**	mg/kg dry	0.373	1	1	05/22/09
Benzo(a)pyrene	**3.69**	mg/kg dry	0.187	1	1	05/22/09
Benzo(b)fluoranthene	**4.45**	mg/kg dry	0.373	1	1	05/22/09
Benzo(g,h,i)perylene	**1.48**	mg/kg dry	0.373	1000	1	05/22/09
Benzo(k)fluoranthene	**2.75**	mg/kg dry	0.373	8.4	1	05/22/09
Chrysene	**4.34**	mg/kg dry	0.187	84	1	05/22/09
Dibenzo(a,h)Anthracene	**0.570**	mg/kg dry	0.187	0.33	1	05/22/09
Fluoranthene	**11.4**	mg/kg dry	1.87	1000	5	05/22/09
Fluorene	**1.57**	mg/kg dry	0.373	1000	1	05/22/09
Indeno(1,2,3-cd)Pyrene	**1.59**	mg/kg dry	0.373	1	1	05/22/09
Naphthalene	**0.921**	mg/kg dry	0.373	1000	1	05/22/09
Phenanthrene	**10.3**	mg/kg dry	1.87	1000	5	05/22/09
Pyrene	**8.86**	mg/kg dry	1.87	1000	5	05/22/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*77 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*91 %*		*30-130*
Surrogate: Nitrobenzene-d5	*73 %*		*30-130*
Surrogate: p-Terphenyl-d14	*89 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-19 2 ft
Date Sampled: 05/20/09 09:00
Percent Solids: 91
Initial Volume: 20.3
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905266
ESS Laboratory Sample ID: 0905266-02
Sample Matrix: Soil
Analyst: ML
Prepared: 05/21/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	**219**	mg/kg dry	21.7	500	1	05/21/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*113 %*		*50-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-22 2ft
Date Sampled: 05/20/09 11:00
Percent Solids: 94

ESS Laboratory Work Order: 0905266
ESS Laboratory Sample ID: 0905266-03
Sample Matrix: Soil

3050B/6000/7000 Total Metals

CT - RES DEC

Analyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	5.8	6010B	27	1	SVD	05/21/09	1.83	100
Arsenic	**8.6**	mg/kg dry	2.9	6010B	10	1	SVD	05/21/09	1.83	100
Beryllium	**0.13**	mg/kg dry	0.06	6010B	2	1	SVD	05/21/09	1.83	100
Cadmium	ND	mg/kg dry	0.58	6010B	34	1	SVD	05/21/09	1.83	100
Chromium	**10.0**	mg/kg dry	1.2	6010B	3900	1	SVD	05/21/09	1.83	100
Copper	**9.3**	mg/kg dry	1.2	6010B	2500	1	SVD	05/21/09	1.83	100
Lead	**7.1**	mg/kg dry	5.8	6010B	400	1	SVD	05/21/09	1.83	100
Mercury	ND	mg/kg dry	0.034	7471A	20	1	KAB	05/21/09	0.62	40
Nickel	**7.8**	mg/kg dry	2.9	6010B	1400	1	SVD	05/21/09	1.83	100
Selenium	ND	mg/kg dry	5.8	6010B	340	1	SVD	05/21/09	1.83	100
Silver	ND	mg/kg dry	0.58	6010B	340	1	SVD	05/21/09	1.83	100
Thallium	ND	mg/kg dry	1.44	7841	5.4	5	SVD	05/21/09	1.83	100
Zinc	**8.9**	mg/kg dry	2.9	6010B	20000	1	SVD	05/21/09	1.83	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-22 2ft
Date Sampled: 05/20/09 11:00
Percent Solids: 94
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3546

ESS Laboratory Work Order: 0905266
ESS Laboratory Sample ID: 0905266-03
Sample Matrix: Soil
Analyst: IBM
Prepared: 05/21/09

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
2-Methylnaphthalene	ND	mg/kg dry	0.354	474	1	05/22/09
Acenaphthene	ND	mg/kg dry	0.354	1000	1	05/22/09
Acenaphthylene	ND	mg/kg dry	0.354	1000	1	05/22/09
Anthracene	ND	mg/kg dry	0.354	1000	1	05/22/09
Benzo(a)anthracene	ND	mg/kg dry	0.354	1	1	05/22/09
Benzo(a)pyrene	ND	mg/kg dry	0.178	1	1	05/22/09
Benzo(b)fluoranthene	ND	mg/kg dry	0.354	1	1	05/22/09
Benzo(g,h,i)perylene	ND	mg/kg dry	0.354	1000	1	05/22/09
Benzo(k)fluoranthene	ND	mg/kg dry	0.354	8.4	1	05/22/09
Chrysene	ND	mg/kg dry	0.178	84	1	05/22/09
Dibenzo(a,h)Anthracene	ND	mg/kg dry	0.178	0.33	1	05/22/09
Fluoranthene	ND	mg/kg dry	0.354	1000	1	05/22/09
Fluorene	ND	mg/kg dry	0.354	1000	1	05/22/09
Indeno(1,2,3-cd)Pyrene	ND	mg/kg dry	0.354	1	1	05/22/09
Naphthalene	ND	mg/kg dry	0.354	1000	1	05/22/09
Phenanthrene	ND	mg/kg dry	0.354	1000	1	05/22/09
Pyrene	ND	mg/kg dry	0.354	1000	1	05/22/09

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*63 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*74 %*		*30-130*
Surrogate: Nitrobenzene-d5	*65 %*		*30-130*
Surrogate: p-Terphenyl-d14	*90 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: TP-22 2ft
Date Sampled: 05/20/09 11:00
Percent Solids: 94
Initial Volume: 19.1
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 0905266
ESS Laboratory Sample ID: 0905266-03
Sample Matrix: Soil
Analyst: ML
Prepared: 05/21/09

8100M Extractable Total Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
Total Petroleum Hydrocarbons	ND	mg/kg dry	22.3	500	1	05/21/09

	%Recovery	Qualifier	Limits
Surrogate: O-Terphenyl	*86 %*		*50-150*

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905266

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch BE92014 - 3050B										
Blank										
Antimony	ND	6.7	mg/kg wet							
Arsenic	ND	3.3	mg/kg wet							
Beryllium	ND	0.07	mg/kg wet							
Cadmium	ND	0.67	mg/kg wet							
Chromium	ND	1.3	mg/kg wet							
Copper	ND	1.3	mg/kg wet							
Lead	ND	6.7	mg/kg wet							
Nickel	ND	3.3	mg/kg wet							
Selenium	ND	6.7	mg/kg wet							
Silver	ND	0.67	mg/kg wet							
Thallium	ND	0.33	mg/kg wet							
Zinc	ND	3.3	mg/kg wet							
LCS										
Antimony	33.2	6.7	mg/kg wet	33.33		100	80-120			
Arsenic	35.2	3.3	mg/kg wet	33.33		106	80-120			
Beryllium	3.35	0.07	mg/kg wet	3.333		100	80-120			
Cadmium	15.9	0.67	mg/kg wet	16.67		95	80-120			
Chromium	33.8	1.3	mg/kg wet	33.33		102	80-120			
Copper	32.8	1.3	mg/kg wet	33.33		98	80-120			
Lead	34.2	6.7	mg/kg wet	33.33		103	80-120			
Nickel	33.6	3.3	mg/kg wet	33.33		101	80-120			
Selenium	62.4	6.7	mg/kg wet	66.67		94	80-120			
Silver	16.4	0.67	mg/kg wet	16.67		99	80-120			
Thallium	36.0	6.60	mg/kg wet	33.33		108	80-120			
Zinc	32.9	3.3	mg/kg wet	33.33		99	80-120			
LCS Dup										
Antimony	32.6	6.7	mg/kg wet	33.33		98	80-120	2	20	
Arsenic	34.1	3.3	mg/kg wet	33.33		102	80-120	3	20	
Beryllium	3.30	0.07	mg/kg wet	3.333		99	80-120	1	20	
Cadmium	15.6	0.67	mg/kg wet	16.67		94	80-120	2	20	
Chromium	33.3	1.3	mg/kg wet	33.33		100	80-120	1	20	
Copper	32.3	1.3	mg/kg wet	33.33		97	80-120	2	20	
Lead	33.7	6.7	mg/kg wet	33.33		101	80-120	2	20	
Nickel	33.4	3.3	mg/kg wet	33.33		100	80-120	0.4	20	
Selenium	61.4	6.7	mg/kg wet	66.67		92	80-120	2	20	
Silver	16.2	0.67	mg/kg wet	16.67		97	80-120	2	20	
Thallium	36.9	6.60	mg/kg wet	33.33		111	80-120	3	20	
Zinc	32.4	3.3	mg/kg wet	33.33		97	80-120	2	20	
Duplicate **Source: 0905266-02**										
Antimony	ND	6.1	mg/kg dry		ND				35	
Arsenic	5.11	3.0	mg/kg dry		5.51			8	35	
Beryllium	0.110	0.06	mg/kg dry		0.119			7	35	
Cadmium	0.267	0.61	mg/kg dry		0.260			3	35	
Chromium	12.3	1.2	mg/kg dry		13.2			7	35	

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905266

Quality Control Data

3050B/6000/7000 Total Metals

Analyte		Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BE92014 - 3050B											
Copper		15.7	1.2	mg/kg dry		16.1			3	35	
Lead		84.1	6.1	mg/kg dry		112			29	35	
Nickel		9.05	3.0	mg/kg dry		9.48			5	35	
Selenium		ND	6.1	mg/kg dry		ND				35	
Silver		ND	0.61	mg/kg dry		ND				35	
Thallium		ND	1.50	mg/kg dry		ND				35	
Zinc		37.5	3.0	mg/kg dry		30.4			21	35	
Matrix Spike	**Source: 0905266-02**										
Antimony		15.2	5.9	mg/kg dry	29.70	ND	51	75-125			M-
Arsenic		32.0	3.0	mg/kg dry	29.70	5.51	89	75-125			
Beryllium		2.63	0.06	mg/kg dry	2.970	0.119	85	75-125			
Cadmium		12.0	0.60	mg/kg dry	14.85	0.260	79	75-125			
Chromium		37.6	1.2	mg/kg dry	29.70	13.2	82	75-125			
Copper		41.4	1.2	mg/kg dry	29.70	16.1	85	75-125			
Lead		107	5.9	mg/kg dry	29.70	112	NR	75-125			M-
Nickel		34.5	3.0	mg/kg dry	29.70	9.48	84	75-125			
Selenium		48.3	5.9	mg/kg dry	59.40	ND	81	75-125			
Silver		13.2	0.60	mg/kg dry	14.85	ND	89	75-125			
Thallium		27.3	5.88	mg/kg dry	29.70	ND	92	75-125			
Zinc		58.9	3.0	mg/kg dry	29.70	30.4	96	75-125			
Reference											
Antimony		86.6	9.9	mg/kg wet	127.0		68	0-210			
Arsenic		265	4.9	mg/kg wet	280.0		95	81-119			
Beryllium		47.5	0.10	mg/kg wet	51.00		93	83-117			
Cadmium		161	1.00	mg/kg wet	182.0		88	82-118			
Chromium		129	2.0	mg/kg wet	142.0		91	81-120			
Copper		118	2.0	mg/kg wet	132.0		89	83-117			
Lead		68.3	9.9	mg/kg wet	72.20		95	82-118			
Nickel		148	4.9	mg/kg wet	155.0		95	82-117			
Selenium		149	9.9	mg/kg wet	165.0		90	78-123			
Silver		122	1.00	mg/kg wet	126.0		97	66-134			
Thallium		212	24.5	mg/kg wet	184.0		115	77-122			
Zinc		302	4.9	mg/kg wet	346.0		87	79-121			
Batch BE92016 - 7471A											
Blank											
Mercury		ND	0.033	mg/kg wet							
LCS											
Mercury		0.234	0.033	mg/kg wet	0.2000		117	80-120			
LCS Dup											
Mercury		0.218	0.033	mg/kg wet	0.2000		109	80-120	7	20	
Duplicate	**Source: 0905266-02**										
Mercury		0.0209	0.035	mg/kg dry		0.0215			3	35	
Matrix Spike	**Source: 0905266-02**										
Mercury		0.259	0.036	mg/kg dry	0.2198	0.0215	108	75-125			

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905266

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch BE92016 - 7471A										
Matrix Spike Dup **Source: 0905266-02**										
Mercury	0.262	0.036	mg/kg dry	0.2198	0.0215	109	75-125	1	35	
Reference										
Mercury	7.82	0.660	mg/kg wet	8.480		92	66-132			
8270C Polynuclear Aromatic Hydrocarbons										
Batch BE92113 - 3546										
Blank										
2-Methylnaphthalene	ND	0.333	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*2.55*		mg/kg wet	*3.333*		*77*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.94*		mg/kg wet	*3.333*		*88*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.46*		mg/kg wet	*3.333*		*74*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.36*		mg/kg wet	*3.333*		*101*	*30-130*			
LCS										
2-Methylnaphthalene	2.89	0.333	mg/kg wet	3.333		87	40-140			
Acenaphthene	2.84	0.333	mg/kg wet	3.333		85	40-140			
Acenaphthylene	2.54	0.333	mg/kg wet	3.333		76	40-140			
Anthracene	3.12	0.333	mg/kg wet	3.333		93	40-140			
Benzo(a)anthracene	3.40	0.333	mg/kg wet	3.333		102	40-140			
Benzo(a)pyrene	3.13	0.167	mg/kg wet	3.333		94	40-140			
Benzo(b)fluoranthene	3.23	0.333	mg/kg wet	3.333		97	40-140			
Benzo(g,h,i)perylene	3.65	0.333	mg/kg wet	3.333		109	40-140			
Benzo(k)fluoranthene	3.03	0.333	mg/kg wet	3.333		91	40-140			
Chrysene	3.38	0.167	mg/kg wet	3.333		101	40-140			
Dibenzo(a,h)Anthracene	3.47	0.167	mg/kg wet	3.333		104	40-140			
Fluoranthene	3.39	0.333	mg/kg wet	3.333		102	40-140			
Fluorene	3.16	0.333	mg/kg wet	3.333		95	40-140			
Indeno(1,2,3-cd)Pyrene	3.57	0.333	mg/kg wet	3.333		107	40-140			
Naphthalene	2.60	0.333	mg/kg wet	3.333		78	40-140			

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905266

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Polynuclear Aromatic Hydrocarbons										
Batch BE92113 - 3546										
Phenanthrene	2.83	0.333	mg/kg wet	3.333		85	40-140			
Pyrene	3.46	0.333	mg/kg wet	3.333		104	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.57*		mg/kg wet	*3.333*		*77*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.69*		mg/kg wet	*3.333*		*81*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.37*		mg/kg wet	*3.333*		*71*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.34*		mg/kg wet	*3.333*		*100*	*30-130*			
LCS Dup										
2-Methylnaphthalene	3.16	0.333	mg/kg wet	3.333		95	40-140	9	30	
Acenaphthene	2.90	0.333	mg/kg wet	3.333		87	40-140	2	30	
Acenaphthylene	2.58	0.333	mg/kg wet	3.333		78	40-140	2	30	
Anthracene	3.05	0.333	mg/kg wet	3.333		91	40-140	2	30	
Benzo(a)anthracene	3.23	0.333	mg/kg wet	3.333		97	40-140	5	30	
Benzo(a)pyrene	3.04	0.167	mg/kg wet	3.333		91	40-140	3	30	
Benzo(b)fluoranthene	2.84	0.333	mg/kg wet	3.333		85	40-140	13	30	
Benzo(g,h,i)perylene	3.50	0.333	mg/kg wet	3.333		105	40-140	4	30	
Benzo(k)fluoranthene	3.30	0.333	mg/kg wet	3.333		99	40-140	9	30	
Chrysene	3.19	0.167	mg/kg wet	3.333		96	40-140	6	30	
Dibenzo(a,h)Anthracene	3.53	0.167	mg/kg wet	3.333		106	40-140	2	30	
Fluoranthene	3.19	0.333	mg/kg wet	3.333		96	40-140	6	30	
Fluorene	3.20	0.333	mg/kg wet	3.333		96	40-140	1	30	
Indeno(1,2,3-cd)Pyrene	3.38	0.333	mg/kg wet	3.333		101	40-140	6	30	
Naphthalene	2.79	0.333	mg/kg wet	3.333		84	40-140	7	30	
Phenanthrene	2.77	0.333	mg/kg wet	3.333		83	40-140	2	30	
Pyrene	3.33	0.333	mg/kg wet	3.333		100	40-140	4	30	
Surrogate: 1,2-Dichlorobenzene-d4	*2.74*		mg/kg wet	*3.333*		*82*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*3.05*		mg/kg wet	*3.333*		*91*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.48*		mg/kg wet	*3.333*		*74*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.22*		mg/kg wet	*3.333*		*97*	*30-130*			
Matrix Spike **Source: 0905266-02**										
2-Methylnaphthalene	3.87	0.368	mg/kg dry	3.688	0.803	83	40-140			
Acenaphthene	4.16	0.368	mg/kg dry	3.688	1.43	74	40-140			
Acenaphthylene	2.59	0.368	mg/kg dry	3.688	ND	70	40-140			
Anthracene	5.74	0.368	mg/kg dry	3.688	2.80	80	40-140			
Benzo(a)anthracene	7.81	1.84	mg/kg dry	3.688	4.98	77	40-140			
Benzo(a)pyrene	6.71	0.185	mg/kg dry	3.688	3.69	82	40-140			
Benzo(b)fluoranthene	5.98	1.84	mg/kg dry	3.688	4.45	41	40-140			
Benzo(g,h,i)perylene	4.03	0.368	mg/kg dry	3.688	1.48	69	40-140			
Benzo(k)fluoranthene	5.49	0.368	mg/kg dry	3.688	2.75	74	40-140			
Chrysene	7.36	0.924	mg/kg dry	3.688	4.34	82	40-140			
Dibenzo(a,h)Anthracene	3.43	0.185	mg/kg dry	3.688	0.570	78	40-140			
Fluoranthene	14.5	1.84	mg/kg dry	3.688	11.4	84	40-140			
Fluorene	4.74	0.368	mg/kg dry	3.688	1.57	86	40-140			
Indeno(1,2,3-cd)Pyrene	4.16	0.368	mg/kg dry	3.688	1.59	70	40-140			
Naphthalene	3.01	0.368	mg/kg dry	3.688	0.921	57	40-140			
Phenanthrene	13.1	1.84	mg/kg dry	3.688	10.3	76	40-140			
Pyrene	12.1	1.84	mg/kg dry	3.688	8.86	89	40-140			

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0905266

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Polynuclear Aromatic Hydrocarbons										
Batch BE92113 - 3546										
Surrogate: 1,2-Dichlorobenzene-d4	*2.68*		mg/kg dry	*3.688*		*73*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*3.14*		mg/kg dry	*3.688*		*85*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.45*		mg/kg dry	*3.688*		*66*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.53*		mg/kg dry	*3.688*		*96*	*30-130*			
Matrix Spike Dup **Source: 0905266-02**										
2-Methylnaphthalene	3.51	0.373	mg/kg dry	3.738	0.803	72	40-140	10	30	
Acenaphthene	3.59	0.373	mg/kg dry	3.738	1.43	58	40-140	15	30	
Acenaphthylene	2.63	0.373	mg/kg dry	3.738	ND	70	40-140	1	30	
Anthracene	4.87	0.373	mg/kg dry	3.738	2.80	55	40-140	16	30	
Benzo(a)anthracene	6.65	0.373	mg/kg dry	3.738	4.98	45	40-140	16	30	
Benzo(a)pyrene	5.53	0.187	mg/kg dry	3.738	3.69	49	40-140	19	30	
Benzo(b)fluoranthene	6.74	0.373	mg/kg dry	3.738	4.45	61	40-140	12	30	
Benzo(g,h,i)perylene	3.17	0.373	mg/kg dry	3.738	1.48	45	40-140	24	30	
Benzo(k)fluoranthene	5.21	0.373	mg/kg dry	3.738	2.75	66	40-140	5	30	
Chrysene	6.22	0.187	mg/kg dry	3.738	4.34	50	40-140	17	30	
Dibenzo(a,h)Anthracene	3.05	0.187	mg/kg dry	3.738	0.570	66	40-140	12	30	
Fluoranthene	10.6	1.87	mg/kg dry	3.738	11.4	NR	40-140	31	30	D+, M+
Fluorene	4.10	0.373	mg/kg dry	3.738	1.57	68	40-140	14	30	
Indeno(1,2,3-cd)Pyrene	3.39	0.373	mg/kg dry	3.738	1.59	48	40-140	20	30	
Naphthalene	2.86	0.373	mg/kg dry	3.738	0.921	52	40-140	5	30	
Phenanthrene	8.84	1.87	mg/kg dry	3.738	10.3	NR	40-140	39	30	D+, M-
Pyrene	8.30	1.87	mg/kg dry	3.738	8.86	NR	40-140	37	30	D+, M-
Surrogate: 1,2-Dichlorobenzene-d4	*2.55*		mg/kg dry	*3.738*		*68*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*3.11*		mg/kg dry	*3.738*		*83*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.33*		mg/kg dry	*3.738*		*62*	*30-130*			
Surrogate: p-Terphenyl-d14	*3.55*		mg/kg dry	*3.738*		*95*	*30-130*			
8100M Extractable Total Petroleum Hydrocarbons										
Batch BE92125 - 3546										
Blank										
Total Petroleum Hydrocarbons	ND	20.0	mg/kg wet							
Surrogate: O-Terphenyl	*4.05*		mg/kg wet	*5.000*		*81*	*50-150*			
LCS										
Total Petroleum Hydrocarbons	32.6	20.0	mg/kg wet	35.00		93	60-120			
Surrogate: O-Terphenyl	*4.25*		mg/kg wet	*5.000*		*85*	*50-150*			
LCS Dup										
Total Petroleum Hydrocarbons	32.4	20.0	mg/kg wet	35.00		93	60-120	0.4	30	
Surrogate: O-Terphenyl	*4.07*		mg/kg wet	*5.000*		*81*	*50-150*			
Matrix Spike **Source: 0905266-02**										
Total Petroleum Hydrocarbons	404	22.3	mg/kg dry	39.05	219	473	50-150			M+
Surrogate: O-Terphenyl	*7.34*		mg/kg dry	*5.578*		*132*	*50-150*			

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0905266

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8100M Extractable Total Petroleum Hydrocarbons										
Batch BE92125 - 3546										
Matrix Spike Dup **Source: 0905266-02**										
Total Petroleum Hydrocarbons	1110	21.3	mg/kg dry	37.34	219	NR	50-150	93	30	D+, M+
Surrogate: O-Terphenyl	*7.08*		mg/kg dry	*5.334*		*133*	*50-150*			

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\TPH GC2\DATA\052109\G2F07088.D Vial: 99
Acq On : 21 May 2009 07:35 Operator: ML
Sample : TPH 50 Inst : GC2
Misc : Multiplr: 1.00
IntFile : events.e

Method : Q:\SVOA\TPH GC2\METHODS\8100FDT.M (Chemstation Integrator)
Title : ELEMENT ID: 0502007
Last Update : Sat May 02 12:03:04 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1		C9	36.930	36.152 E3	2.1	99	0.00
2		C10	37.786	37.399 E3	1.0	100	-0.01
3		C12	37.844	38.780 E3	-2.5	100	-0.02
4		C14	39.146	40.302 E3	-3.0	99	-0.03
5		C16	41.216	41.553 E3	-0.8	98	-0.03
6		C18	42.726	42.282 E3	1.0	97	-0.03
7		C19	43.774	42.293 E3	3.4	96	-0.04
8		C20	43.804	42.450 E3	3.1	96	-0.03
9		C22	44.757	43.068 E3	3.8	96	-0.04
10		C24	44.106	42.871 E3	2.8	96	-0.04
11		C26	44.904	43.654 E3	2.8	96	-0.04
12		C28	44.478	43.680 E3	1.8	96	-0.04
13		C30	43.582	43.721 E3	-0.3	96	-0.04
14		C36	31.621	41.336 E3	-30.7#	102	-0.05
15	S	O-Terphenyl	47.832	46.280 E3	3.2	97	-0.04
16	H	C9-C36	48.989	43.361 E3	11.5	99	0.00

AVG RF = 41.19
+/-20% = 32.952-49.428 ALL WITHIN

Evaluate Continuing Calibration Report - Not Founds

Data File : Q:\SVOA\TPH GC2\DATA\052109\G2F07088.D Vial: 99
Acq On : 21 May 2009 07:35 Operator: ML
Sample : TPH 50 Inst : GC2
Misc : Multiplr: 1.00
IntFile : events.e

Method : Q:\SVOA\TPH GC2\METHODS\8100FDT.M (Chemstation Integrator)
Title : ELEMENT ID: 0502007
Last Update : Sat May 02 12:03:04 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
17	H	C10-C28	46.170	0.000 E3	100.0#	0#	-11.78#

(#) = Out of Range SPCC's out = 0 CCC's out = 0
G2F06829.D 8100FDT.M Thu May 21 11:12:48 2009

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill ESS Laboratory Work Order: 0905266

Notes and Definitions

U	Analyte included in the analysis, but not detected
M+	Matrix Spike recovery is above upper control limit.
M-	Matrix Spike recovery is below lower control limit.
D+	Relative percent difference for duplicate is outside of criteria.
D	Diluted.
4	Matrix Spike/Matrix Spike Dup do not match sample. Reextraction confirms nonhomogeneity.
ND	Analyte NOT DETECTED above the detection limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill ESS Laboratory Work Order: 0905266

ESS LABORATORY CERTIFICATIONS

U.S. Army Corps of Engineers
Soil and Water

Rhode Island: A-179
Potable and Non Potable Water
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut: PH-0750
Potable and Non Potable Water, Solid and Hazardous Waste
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine: RI002
Potable and Non Potable Water
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts: M-RI002
Potable and Non Potable Water
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited): 242405
Potable and Non PotableWater
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited): 11313
Potable and Non Potable Water, Solid and Hazardous Waste
http://www.wadsworth.org/labcert/elap/comm.html

United States Department of Agriculture
Soil Permit: S-54210

New Jersey (NELAP accredited): RI002
Potable and Non Potable Water, Solid and Hazardous Waste
http://www.nj.gov/dep/oqa/certlabs.htm

Maryland: 301
Potable Water
http://www.mde.state.md.us/assets/document/wsp_labs

South Carolina: 78003
Volatile Organic Compounds in Potable Water

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time ✓ Standard Other _____
If faster than 5 days, prior approval by laboratory is required #_____
State where samples were collected from:
MA RI CT NH NJ NY ME Other _____
Is this project for any of the following:
MA-MCP Navy USACE Other EPA

Reporting Limits

ESS LAB PROJECT ID: 09052266

Electronic Deliverable ✓ Yes ___ No
Format: Excel ✓ Access ___ PDF ✓ Other _____

Co. Name: Advanced Environmental Solutions.
Project #: —
Project Name (20 Char. or less): Baltic Mill
Contact Person: Mark Denger
Address: 90 Madison St, Ste 605
City: Worcester State: MA Zip: 01608 PO#: —
Telephone #: 508-363-4882 Fax #: 508-363-4883 Email Address: m.denger@advancedenvironmental.net

Write Required Analysis

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	ETPH	PAHs	RP Metals
01	5-20-09	0830		X	S	TP-18 (2.5 ft)		1	G	X	X	X
02	5-20-09	0900		X	S	TP-19 (2 ft)		1	G	X	X	X
02	5-20-09	0900		X	S	TP-19 (2 ft) MS/MSD		1	G	X		
03	5-20-09	1100		X	S	TP-22 (2 ft)		1	G	X	X	X

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA ✓
Cooler Temp: 5.0 °C

Internal Use Only
[ ] Pickup
[ ] Technicians_____

Preservation Code: 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- N/A
Sampled by: Mark S. Denger
Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Mark S. Denger	5/20/09 1330	Ralph Lamb	5/20/09 13:30	Ralph Lamb	5/20/09 15:00	[illegible]	5/20/09 1525
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

PROJECT NARRATIVE

Mark Deuger
Advanced Environmental Solutions, Inc.
90 Madison Street, Suite 605
Worcester, MA 01608

RE: Baltic Mill
ESS Laboratory Work Order Number: 0910111

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this Project Narrative, the entire report has been paginated. The ESS Laboratory Certifications sheet is the final report page. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results. All ICP Metals were analyzed using the established linear dynamic range to determine acceptable analytical results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.

To achieve Reasonable Confidence Protocols (RCP) compliance for Connecticut data, ESS laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All RCP requirements have been achieved unless noted in the project narrative.

Question 5: Each method has been set-up in the laboratory to reach required RCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes (ie for GWPC samples, 1,2-Dibromoethane regulatory levels will not be met by VOA 8260. If this is a contaminant of concern Method 8011 will need to be used.). The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

Sample Receipt
The following sample(s) were received on October 07, 2009 for the analyses specified on the enclosed Chain of Custody Record.

Question 6: All samples for EPH were analyzed for a subset of the required RCP list per the client's request.
Revision 1, October 21, 2009: This report was revised to include the target compounds for the EPH analysis.

Laboratory ID	Matrix	Client Sample ID
0910111-01	Ground Water	MW-1

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0910111

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0910111

Laboratory Analysis
QA/QC Certification Form

Project Number: **N/A**
Sampling Date(s): **10/7/2009**
Laboratory Sample ID(s): **0910111-01**

List RCP Methods Used	( ) 8260B	( ) 8151A	( ) ETPH	( ) 6010B	( ) 7470A/1A
Other: _____	( ) 8270C	( ) 8081A	( ) VPH	( ) 6020	( ) 9014M
_____	( ) 8082	( ) 8021B	(X) EPH	( ) 7000 S	( ) 7196A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria failing outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	Yes No
1A	Were the method specific preservation and holding time requirements met?	Yes No
1B	***VPH and EPH Methods only:*** Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	Yes No N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes No
3	Were samples received at an appropriate temperature (<6º Cº)?	Yes No N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	Yes No Yes No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence." This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Laurel Stoddard

Position: Laboratory Director

Printed Name: Laurel Stoddard

Date: October 16, 2009

ESS Laboratory

Division of Thielsch Engineering, Inc.

REVISED
9:57 am, Oct 21, 2009

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
Client Sample ID: MW-1
Date Sampled: 10/07/09 13:55
Percent Solids: N/A
Initial Volume: 1
Final Volume: 1
Extraction Method: [CALC]

ESS Laboratory Work Order: 0910111
ESS Laboratory Sample ID: 0910111-01
Sample Matrix: Ground Water
Analyst: SEP
Prepared: 10/8/09 18:30

MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons

Analyte	Results	Units	MRL	CT - RES DEC Limit	DF	Analyzed
C11-C22 Aromatic1,2	**684**	ug/L	315		1	10/13/09 7:34
C9-C18 Aliphatics1	**233**	ug/L	200		1	10/13/09 8:43
C19-C36 Aliphatics1	**421**	ug/L	200		1	10/13/09 8:43
C11-C22 Unadjusted Aromatics1	**684**	ug/L	150		1	10/13/09 7:34
2-Methylnaphthalene	ND	ug/L	5.0		1	10/13/09 7:34
Acenaphthene	ND	ug/L	10.0		1	10/13/09 7:34
Naphthalene	ND	ug/L	10.0		1	10/13/09 7:34
Phenanthrene	ND	ug/L	10.0		1	10/13/09 7:34
Acenaphthylene	ND	ug/L	10.0		1	10/13/09 7:34
Anthracene	ND	ug/L	10.0		1	10/13/09 7:34
Benzo(a)anthracene	ND	ug/L	10.0		1	10/13/09 7:34
Benzo(a)pyrene	ND	ug/L	10.0		1	10/13/09 7:34
Benzo(b)fluoranthene	ND	ug/L	10.0		1	10/13/09 7:34
Benzo(g,h,i)perylene	ND	ug/L	10.0		1	10/13/09 7:34
Benzo(k)fluoranthene	ND	ug/L	10.0		1	10/13/09 7:34
Chrysene	ND	ug/L	10.0		1	10/13/09 7:34
Dibenzo(a,h)Anthracene	ND	ug/L	10.0		1	10/13/09 7:34
Fluoranthene	ND	ug/L	10.0		1	10/13/09 7:34
Fluorene	ND	ug/L	10.0		1	10/13/09 7:34
Indeno(1,2,3-cd)Pyrene	ND	ug/L	10.0		1	10/13/09 7:34
Pyrene	ND	ug/L	10.0		1	10/13/09 7:34
Preservative:	**pH <= 2**					

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1-Chlorooctadecane	*52 %*		*40-140*
Surrogate: 2-Bromonaphthalene	*100 %*		*40-140*
Surrogate: 2-Fluorobiphenyl	*87 %*		*40-140*
Surrogate: O-Terphenyl	*81 %*		*40-140*

ESS Laboratory

Batch/Sequence Reference Page

10/16/09 16:20

WorkOrder	Sample	Analysis	Dilution	Batch	Sequence
0910111	01	SVOC: CT RCP EPH Aliphatic subanalysis	1	BJ90813	BSJ0078
0910111	01	SVOC: CT RCP EPH Aromatic Ranges	1	BJ90813	BSJ0079

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0910111

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
Batch BJ90813 - 3510C										
Blank										
C19-C36 Aliphatics1	ND	200	ug/L							
C9-C18 Aliphatics1	ND	200	ug/L							
Decane (C10)	ND	5	ug/L							
Docosane (C22)	ND	5	ug/L							
Dodecane (C12)	ND	5	ug/L							
Eicosane (C20)	ND	5	ug/L							
Hexacosane (C26)	ND	5	ug/L							
Hexadecane (C16)	ND	5	ug/L							
Nonadecane (C19)	ND	5	ug/L							
Nonane (C9)	ND	5	ug/L							
Octacosane (C28)	ND	5	ug/L							
Octadecane (C18)	ND	5	ug/L							
Tetracosane (C24)	ND	5	ug/L							
Tetradecane (C14)	ND	5	ug/L							
Triacontane (C30)	ND	5	ug/L							
Surrogate: 1-Chlorooctadecane	*22.1*		ug/L	*50.00*		*44*	*40-140*			
Blank										
2-Methylnaphthalene	ND	5.0	ug/L							
Acenaphthene	ND	10.0	ug/L							
Acenaphthylene	ND	10.0	ug/L							
Androstane	107		mg/L	100.0		116	50-200			
Androstane IS	100		mg/L	100.0		116	50-200			
Anthracene	ND	10.0	ug/L							
Benzo(a)anthracene	ND	10.0	ug/L							
Benzo(a)pyrene	ND	10.0	ug/L							
Benzo(b)fluoranthene	ND	10.0	ug/L							
Benzo(g,h,i)perylene	ND	10.0	ug/L							
Benzo(k)fluoranthene	ND	10.0	ug/L							
C11-C22 Unadjusted Aromatics1	ND	150	ug/L							
Chrysene	ND	10.0	ug/L							
Dibenzo(a,h)Anthracene	ND	10.0	ug/L							
Fluoranthene	ND	10.0	ug/L							
Fluorene	ND	10.0	ug/L							
Indeno(1,2,3-cd)Pyrene	ND	10.0	ug/L							
Naphthalene	ND	10.0	ug/L							
Phenanthrene	ND	10.0	ug/L							
Pyrene	ND	10.0	ug/L							
Surrogate: 2-Bromonaphthalene	*41.0*		mg/L	*50.00*		*82*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*37.6*		mg/L	*50.00*		*75*	*40-140*			
Surrogate: O-Terphenyl	*33.6*		ug/L	*50.00*		*67*	*40-140*			
LCS										
C19-C36 Aliphatics1	262	200	ug/L	400.0		66	40-140			
C9-C18 Aliphatics1	182	200	ug/L	300.0		61	40-140			

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill
ESS Laboratory Work Order: 0910111

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
Batch BJ90813 - 3510C										
Decane (C10)	21	5	ug/L	50.00		43	40-140			
Docosane (C22)	31	5	ug/L	50.00		62	40-140			
Dodecane (C12)	24	5	ug/L	50.00		47	40-140			
Eicosane (C20)	31	5	ug/L	50.00		62	40-140			
Hexacosane (C26)	29	5	ug/L	50.00		58	40-140			
Hexadecane (C16)	28	5	ug/L	50.00		57	40-140			
Nonadecane (C19)	31	5	ug/L	50.00		63	40-140			
Nonane (C9)	17	5	ug/L	50.00		33	30-140			
Octacosane (C28)	29	5	ug/L	50.00		58	40-140			
Octadecane (C18)	30	5	ug/L	50.00		61	40-140			
Tetracosane (C24)	30	5	ug/L	50.00		60	40-140			
Tetradecane (C14)	26	5	ug/L	50.00		53	40-140			
Triacontane (C30)	30	5	ug/L	50.00		59	40-140			
Surrogate: 1-Chlorooctadecane	*24.1*		ug/L	*50.00*		*48*	*40-140*			
LCS										
2-Methylnaphthalene	33.1	5.0	ug/L	50.00		66	40-140			
Acenaphthene	32.1	10.0	ug/L	50.00		64	40-140			
Acenaphthylene	33.1	10.0	ug/L	50.00		66	40-140			
Androstane	107		mg/L	100.0		117	50-200			
Androstane IS	100		mg/L	100.0		117	50-200			
Anthracene	31.9	10.0	ug/L	50.00		64	40-140			
Benzo(a)anthracene	40.8	10.0	ug/L	50.00		82	40-140			
Benzo(a)pyrene	43.8	10.0	ug/L	50.00		88	40-140			
Benzo(b)fluoranthene	40.8	10.0	ug/L	50.00		82	40-140			
Benzo(g,h,i)perylene	44.3	10.0	ug/L	50.00		89	40-140			
Benzo(k)fluoranthene	40.1	10.0	ug/L	50.00		80	40-140			
C11-C22 Unadjusted Aromatics1	873	150	ug/L	850.0		103	40-140			
Chrysene	42.0	10.0	ug/L	50.00		84	40-140			
Dibenzo(a,h)Anthracene	45.2	10.0	ug/L	50.00		90	40-140			
Fluoranthene	41.7	10.0	ug/L	50.00		83	40-140			
Fluorene	35.4	10.0	ug/L	50.00		71	40-140			
Indeno(1,2,3-cd)Pyrene	44.0	10.0	ug/L	50.00		88	40-140			
Naphthalene	31.7	10.0	ug/L	50.00		63	40-140			
Phenanthrene	42.0	10.0	ug/L	50.00		84	40-140			
Pyrene	42.7	10.0	ug/L	50.00		85	40-140			
Surrogate: 2-Bromonaphthalene	*42.2*		mg/L	*50.00*		*84*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*41.4*		mg/L	*50.00*		*83*	*40-140*			
Surrogate: O-Terphenyl	*40.0*		ug/L	*50.00*		*80*	*40-140*			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	273	200	ug/L	400.0		68	40-140	4	25	
C9-C18 Aliphatics1	189	200	ug/L	300.0		63	40-140	4	25	

ESS Laboratory

Division of Thielsch Engineering, Inc.

REVISED
9:57 am, Oct 21, 2009

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill

ESS Laboratory Work Order: 0910111

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH-04-1.1/8270C Extractable Petroleum Hydrocarbons										
Batch BJ90813 - 3510C										
Decane (C10)	23	5	ug/L	50.00		45	40-140	5	25	
Docosane (C22)	34	5	ug/L	50.00		68	40-140	9	25	
Dodecane (C12)	25	5	ug/L	50.00		50	40-140	5	25	
Eicosane (C20)	34	5	ug/L	50.00		67	40-140	8	25	
Hexacosane (C26)	32	5	ug/L	50.00		64	40-140	11	25	
Hexadecane (C16)	31	5	ug/L	50.00		63	40-140	10	25	
Nonadecane (C19)	34	5	ug/L	50.00		68	40-140	9	25	
Nonane (C9)	18	5	ug/L	50.00		35	30-140	6	25	
Octacosane (C28)	32	5	ug/L	50.00		64	40-140	10	25	
Octadecane (C18)	33	5	ug/L	50.00		66	40-140	8	25	
Tetracosane (C24)	34	5	ug/L	50.00		68	40-140	11	25	
Tetradecane (C14)	29	5	ug/L	50.00		58	40-140	10	25	
Triacontane (C30)	33	5	ug/L	50.00		66	40-140	11	25	
Surrogate: 1-Chlorooctadecane	*27.1*		ug/L	*50.00*		*54*	*40-140*			
LCS Dup										
2-Methylnaphthalene	37.1	5.0	ug/L	50.00		74	40-140	11	25	
Acenaphthene	34.8	10.0	ug/L	50.00		70	40-140	8	25	
Acenaphthylene	36.6	10.0	ug/L	50.00		73	40-140	10	25	
Androstane	106		mg/L	100.0		113	50-200			
Androstane IS	100		mg/L	100.0		114	50-200			
Anthracene	33.1	10.0	ug/L	50.00		66	40-140	4	25	
Benzo(a)anthracene	43.8	10.0	ug/L	50.00		88	40-140	7	25	
Benzo(a)pyrene	48.0	10.0	ug/L	50.00		96	40-140	9	25	
Benzo(b)fluoranthene	43.2	10.0	ug/L	50.00		86	40-140	6	25	
Benzo(g,h,i)perylene	47.3	10.0	ug/L	50.00		95	40-140	7	25	
Benzo(k)fluoranthene	43.9	10.0	ug/L	50.00		88	40-140	9	25	
C11-C22 Unadjusted Aromatics1	929	150	ug/L	850.0		109	40-140	6	25	
Chrysene	45.9	10.0	ug/L	50.00		92	40-140	9	25	
Dibenzo(a,h)Anthracene	48.7	10.0	ug/L	50.00		97	40-140	8	25	
Fluoranthene	43.9	10.0	ug/L	50.00		88	40-140	5	25	
Fluorene	37.1	10.0	ug/L	50.00		74	40-140	5	25	
Indeno(1,2,3-cd)Pyrene	48.2	10.0	ug/L	50.00		96	40-140	9	25	
Naphthalene	36.3	10.0	ug/L	50.00		73	40-140	14	25	
Phenanthrene	43.7	10.0	ug/L	50.00		87	40-140	4	25	
Pyrene	46.0	10.0	ug/L	50.00		92	40-140	7	25	
Surrogate: 2-Bromonaphthalene	*41.7*		mg/L	*50.00*		*83*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*40.2*		mg/L	*50.00*		*80*	*40-140*			
Surrogate: O-Terphenyl	*39.8*		ug/L	*50.00*		*80*	*40-140*			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill ESS Laboratory Work Order: 0910111

Notes and Definitions

Z-06	pH <= 2
U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED above the detection limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.

CERTIFICATE OF ANALYSIS

Client Name: Advanced Environmental Solutions, Inc.
Client Project ID: Baltic Mill ESS Laboratory Work Order: 0910111

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: A-179
http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine Potable and Non Potable Water: RI002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited)Potable and Non PotableWater, Solid and Hazardous Waste: 242405
http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

South Carolina Volatile Organic Compounds in Potable Water: 78003

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7187 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 1

Turn Time X Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
MA RI (CT) NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 091011

Electronic Deliverable Yes ✓ No ____
Format: Excel ✓ Access ___ PDF ✓ Other _____

Co. Name: AES, Inc.
Project #:
Project Name (20 Char. or less): Baltic Mills Sprague, CT
Contact Person: Mark Denger
Address: 90 Madison St. Suite 605
City: Worcester State: MA Zip: 01608
PO#:
Telephone #: 508-363-4882
Fax #:
Email Address: m.denger@advancedenvironmental.net

Write Required Analysis

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	EPH
01	10-7-09	13:55		X	GW	~~MW-4~~ KM 10-7-09 MW-1	2	2	G	X

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 3.8°c

Internal Use Only
[ ] Pickup
[ ] Technicians ____

Preservation Code 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: KAM

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Kelly A. Marler	10/7/09 16:46	Ralph Bauch	10/7/09 16:46	Ralph Bauch	10/7/09 17:45	[illegible] 10/7/09	17:45
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

APPENDIX C

CTDEP REASONABLE CONFIDENCE PROTOCOL DATA QA/QC DOCUMENTATION WORKSHEETS

CTDEP REASONABLE CONFIDENCE PROTOCOL
DATA QA/QC DOCUMENTATION WORKSHEET:
ANALYTICAL DATA USABILITY ASSESSMENT

DATE: July 10, 2009
PROJECT: Targeted Brownfield Assessment, Baltic Mill, Sprague, CT
LABORATORY (name and location): ESS Laboratory, Cranston, Rhode Island
SAMPLING DATE(S): May 18, 2009
ESS Work Order Number: 0905219
REVIEWED BY: K. Rutherford, Advanced Environmental Solutions, Inc.

ANALYSES AND ANALYTICAL METHODS:

Matrix	Analysis	Prep Method	Analytical Method
Soil	Volatile Organic Compounds	SW846 5035	SW846 8260B
Soil	Semivolatile Organic Compounds	SW846 3546	SW846 8270C
Soil	Extractable Total Petroleum Hydrocarbons	SW846 3546	CT ETPH SW846 8100M
Soil	Total Metals	SW846 3050B	SW846 6010B, 7471A, 7841
Soil	Total Cyanide		SW846 9014

SAMPLES AND PARAMETERS:

Sample	VOC	SVOC	ETPH	Metals	Cyanide
TP-29 3-5	X	X	X	X	
TP-28 5.5	X	X	X	X	
TP-25 5		X	X	X	
TP-27 Comp		X	X	X	
TP-30 4-4.5	X	X	X	X	X
TP-32 Comp		X	X	X	X
TP-33 6-7	X	X	X	X	X
TP-34 6-7	X	X	X	X	X
TP-31 Comp		X	X	X	X
TP-02 8	X	X	X	X	
TP-004 8	X	X	X	X	
TP-04 8	X	X	X	X	
TP-06 12	X		X		
TP-06 6		X		X	

PROJECT OBJECTIVES: Soil analytical data were generated as part of a Targeted Brownfields Assessment of the Baltic Mills site in Sprague, Connecticut. The analytical data obtained for the investigation activities will be utilized in conjunction with data collected from previous investigation activities to characterize the nature and extent of contaminants of potential concern (COPC) impacts at the Site. Collectively, the data will also be utilized to confirm and/or revise the conceptual Site model, to develop an appropriate remedial action strategy that offers potential to achieve a Response Action Outcome (RAO), and to develop an “order-of-magnitude” remediation cost estimate.

Soil samples were analyzed and evaluated using the Connecticut Department of Environmental Protection’s (CTDEP) *Laboratory Quality Control Assurance and Quality Control, Data Quality*

Assessment and Data Usability Evaluation Guidance Document, May 2009 criteria in order to achieve Reasonable Confidence Protocols (RCPs) for the data set.

ANALYTES OF INTEREST/SITE HISTORY: The primary compounds of interest at this site are petroleum hydrocarbons, as well as semivolatile polynuclear aromatic hydrocarbons (PAHs) and metals.

PROJECT ACTION LEVELS: RCP CT-Residential Direct Exposure Criteria (CT-RES DEC)

Data Usability Assessment	
List all activities that provided the analytical data reviewed in the course of conducting the Data Usability Assessment. Include the media sampled and the month and year the data were acquired.	(X) Listed below (for this SDG only). Activity: Sampling under a Targeted Brownfields Assessment, Baltic Mills, Sprague, CT Media: Soil Sampling Month and Year: May 2009 ( ) Attached separately
Discuss appropriateness of selected analytical methods to quantitatively support the site investigation (exclusive of sensitivity).	(X) Laboratory followed CTDEP RCP methods and the data meet the requirements for Reasonable Confidence Protocol; therefore, analytical methods were appropriate. ( ) Laboratory followed "Non-RCP" methods; however, analytical methods were appropriate and data is comparable to RCP data (explain below).
Discuss appropriateness of selected analytical methods' Reporting Limits (RL) with respect to CTDEP-RES DEC criteria.	( ) All Reporting Limits were at or below applicable criteria in all samples. (X) Reporting Limits were above applicable CTDEP-RES DEC criteria for certain analytes in certain samples, due to sample dilution because of elevated concentrations of other target analytes, non-target analytes, or matrix interferences. – (X) This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. Sample **TP-02 8**: 1,2-Dibromo-3-Chloropropane 1,2-Dibromoethane Acrylonitrile Sample **TP-06 12:** 1,2-Dibromo-3-Chloropropane 1,2-Dibromoethane Acrylonitrile – ( ) This limitation is significant for the following analytes and samples: ( ) Reporting limits were above applicable CTDEP RCP criteria for the following analytes that are acknowledged Potentially Difficult Compounds in the RCP documents:

Data Usability Assessment

- ( ) This limitation is not significant because these analytes were not defined as Analytes of Interest for this site.
- ( ) This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.

(X) Reporting limits were above applicable CTDEP RCP criteria for the following samples and analytes, unrelated to dilution and exclusive of Potentially Difficult Compounds identified in the RCP documents:

- (X) This limitation is not significant because these analytes were not defined as Analytes of Interest for this site.

Sample **TP-28 5.5**:
1,2-dibromoethane

Sample **TP-30 4-4.5**:
1,2-dibromoethane
1,4-Dioxane

Sample **TP-33 6-7**:
1,2-dibromoethane
1,4-Dioxane

Sample **TP-34 6-7:**
1,2-dibromoethane

- (X) This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.

Sample **TP-02 8**:
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(k)fluoranthene
Dibenzo(a,h)Anthracene
Indeno(1,2,3-cd)Pyrene

Sample **TP-004 8:**
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(k)fluoranthene
Dibenzo(a,h)Anthracene
Indeno(1,2,3-cd)Pyrene

Data Usability Assessment	
	Sample **TP-04 8:** Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Dibenzo(a,h)Anthracene Indeno(1,2,3-cd)Pyrene
Discuss laboratory performance criteria and data quality indicators utilized to assess overall Analytical Accuracy (continuing calibration, laboratory control spikes, etc.) and Analytical Precision (laboratory duplicates, laboratory control spike duplicates, etc.). For RCP data, see Laboratory Analysis QA/QC Certification Form and Laboratory Case Narrative.	( ) Met all RCP requirements and performance standards without qualification. (X) Did not meet all RCP requirements and performance standards. Surrogate Recoveries: ( ) All criteria met (X) Recoveries for some samples and analytes were outside criteria, leading to potential bias in results as summarized below: Samples **TP-34 6-7, TP-02 8, TP-004 8, TP-04 8, and TP-06 12**: The recovery of ETPH surrogate o-terphenyl was outside the recovery limits in samples TP-34 6-7, TP-02 8, TP-004 8, TP-04 8, and TP-06 12 due to matrix interference. The samples were not re-analyzed. The positive ETPH results in samples TP-34 6-7, TP-02 8, TP-004 8, TP-04 8, TP-06 12 may be biased; the direction of bias is not known. Sample **TP-34 6-7**: The recovery of SVOC surrogate p-terphenyl-d14 was above control limits in sample TP-34 6-7 due to matrix interference. The sample was not re-analyzed. The positive SVOC results in sample TP-34 6-7 may be biased high. Samples **TP-02 8, TP-004 8, and TP-04 8**: The recovery of all four SVOC surrogates was outside control limits in samples TP-02 8, TP-004 8, and TP-04 8 due to dilution. The samples were not re-analyzed. The positive and non-detect SVOC results in samples TP-02 8, TP-004 8, and TP-04 8 may be biased; the direction of bias is not known. ( ) Poor recoveries led to some data rejection; see Section on Rejections. Method Blanks: (X) No detections in blanks ( ) The following analytes were detected in one or more blanks, but concentrations are well below Project Action Levels, and/or analytes were not detected in associated field samples: ( ) The following analytes were detected in one or more blanks and also in field samples. Data validation under EPA Region I Tier II guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

Data Usability Assessment	
	Laboratory Control Spikes/LCSD: (X) All criteria met ( ) Recoveries and/or RPDs outside criteria for some analytes as described below; some bias may be present: ( ) Poor recoveries led to some data rejection; see Section on Rejections. ( ) Poor recoveries led to some data rejection; see Section on Rejections. MS/MSD: (X) Site-specific MS/MSD performed; see Field Data Usability discussion ( ) Site-specific MS/MSD not requested Other Items (not RCP-required deliverables – these items may be requested from lab and reviewed at Project Manager's discretion): GC/MS Tunes: **Consistent with the CT RCP, this data was not requested and was therefore not reviewed.** Calibrations: **Consistent with the CT RCP, this data was not requested and was therefore not reviewed.** Internal Standards: **Consistent with the CT RCP, this data was not requested and was therefore not reviewed.** Laboratory Fortified Blanks: **Not applicable.**
Discuss performance criteria and data quality indicators utilized to assess overall Field Data Usability (sample preservation compliance, sample sub sampling/compositing, etc.)	(X) Sampling procedures as performed and sample containers used met all RCP requirements and performance standards without qualification. ( ) Variances from RCP requirements and performance standards for sampling procedures or containers occurred. Discuss data usability implications here. (X) Sample preservation requirements and holding times met all RCP requirements and performance standards without qualification. ( ) Variances from RCP requirements occurred. Discuss data usability implications here or reference where discussed elsewhere (e.g., under Rejections). Field QC Sample Evaluation Field Duplicate RPDs: ( ) Field duplicates not collected from this site. ( ) RPD met criteria (≤ 50% for soil and ≤ 30% for aqueous for detected analytes under the following circumstances):

Data Usability Assessment

(X) RPD exceeded limits for the following analytes:

- ( ) All detections in both samples are well below applicable CTDEP RCP criteria; precision is acceptable for site decision-making

- (X) Variability of concentrations near applicable standards indicates more data may be needed for the following analytes and samples:

Field duplicate samples **TP-33 6-7** and **TP-34 6-7**: anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, pyrene, and ETPH.

Field duplicate samples **TP-04 8** and **TP-004 8**: ETPH

Site-Specific MS/MSD:
( ) None collected

( ) Collected and recoveries/RPDs within criteria

(X) Collected; poor precision and/or accuracy noted in case narrative for some analytes indicates potential bias, as follows:

The recovery of antimony in the matrix spike of sample TP-02 8 is below criteria. The nondetect results for antimony in all soil samples may be biased low.

The recovery of total cyanide in the matrix spike of sample TP-34 6-7 is below criteria. The positive and nondetect results for total cyanide in all soil samples may be biased low.

( ) Collected; poor recoveries require data rejection as discussed in Section on Rejections.

Trip Blanks:
(X) None collected

( ) Collected, no detections

( ) The following analytes were detected in one or more blanks:

( ) The following analytes were detected in one or more blanks and also in field samples. Data validation under EPA Region I Tier II guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

Data Usability Assessment	
	Equipment / Rinsate Blanks: (X) None collected ( ) Collected, no detections ( ) The following analytes were detected in one or more blanks and also in field samples. Data validation under EPA Region I Tier II guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:
Discuss any data rejected pursuant to EPA Region I Tier II guidelines. Provide **Technical Justification** if data rejections are applied to results that may meet EPA Region I Tier II guidelines, but are still rejected based on professional judgment. Provide **Technical Justification** if data are judged usable based on professional judgment, despite failure of EPA Region I Tier II guidelines	(X) No data rejected pursuant to **EPA Region I Tier II guidelines** ( ) Rejections are recommended based on the following **EPA Region I Tier II guidelines** criteria (see attached data summary table with rejections marked): ( ) Some rejection decisions were made that are not fully in accordance with EPA Region I Tier II guidelines. Affected samples/analytes and Technical Justification follow:

Summarize analytical data usability for this Sample Delivery Group.	( ) All data are usable for project objectives. No potential for bias is indicated. (X) Data are usable for project objectives, with limitations as noted below: <u>Sensitivity – Comparison to Standards:</u> – (X) Non-detects for the following analytes are not usable for direct comparison to applicable CTDEP RCP criteria, because reporting limits in one or more field samples exceeded criteria, and the analytes are Analytes of Interest for this site: Sample **TP-02 8**: Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Dibenzo(a,h)Anthracene Indeno(1,2,3-cd)Pyrene Sample **TP-004 8:** Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Dibenzo(a,h)Anthracene Indeno(1,2,3-cd)Pyrene Sample **TP-04 8:** Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Dibenzo(a,h)Anthracene Indeno(1,2,3-cd)Pyrene <u>Sensitivity – Blank Contamination</u> – ( ) The following analytes were detected in one or more blanks and also in field samples. Data validation under EPA Region I Tier II guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization: <u>Accuracy/Bias:</u> – (X) Bias is likely for the following Analytes of Interest and samples, based on surrogate recoveries outside criteria: Samples **TP-34 6-7, TP-02 8, TP-004 8, TP-04 8, and TP-06 12**: The positive ETPH results may be biased; the direction of bias is not known. Sample **TP-34 6-7**: The positive SVOC results may be biased high.

	Samples **TP-02 8, TP-004 8, and TP-04 8**: The positive and non-detect SVOC results may be biased; the direction of bias is not known. – (X) Bias is likely for the following Analytes of Interest and samples, based on MS/MSD, LCS/LCSD, internal standard and/or LFB recoveries outside criteria: The nondetect results for antimony in all soil samples may be biased low based on MS recovery. The positive and nondetect results for total cyanide in all soil samples may be biased low. <u>Precision:</u> – (X) Precision does not meet RPD criteria for the following Analytes of Interest, based on review of field duplicate results: Field duplicate samples **TP-33 6-7** and **TP-34 6-7**: anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, pyrene, and ETPH. Field duplicate samples **TP-04 8** and **TP-004 8**: ETPH ( ) Data for the following Analytes of Interest in the following samples are not usable because results were rejected due to limitations identified in the quality control review:

REJECTION CRITERIA – ANALYTICAL DATA USABILITY ASSESSMENTS

Purpose: To determine if data are unusable for supporting environmental investigation and remediation due to gross failure of quality control.

References:

EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 (updated in February 2004 for pesticides/PCBs).

Region I Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses, February 1989.

Definition of Rejected Data: The data are unusable (analyte/compound may or may not be present) due to gross failure of quality control criteria and cannot be used to support project objectives.

Inorganic Criteria for Rejection of Data: Applicable to metals, hexavalent chromium, cyanide, and other inorganic parameters.

- Holding Time (HT): "Gross" violation of HT; "gross" = greater than two times the allowable HT: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries:
    - Aqueous samples only: recovery < 50%: reject all results for affected analyte (professional judgment commonly used if LCS < 50% but MS shows acceptable recovery to determine result as usable; professional judgment may be used to reject non-detected results only)
    - Soil: solid LCS or Standard Reference Material recoveries compared to vendor control limits: use professional judgment on rejection of data
- Matrix Spike (MS) Recovery: recovery < 30%: reject non-detected results for affected analyte in all associated samples in batch (up to 20 associated samples). Exception: Low recovery of hexavalent chromium in soils may be acceptable if supported by pH and ORP data which demonstrate reducing conditions
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

Organic Criteria for Rejection of Data Applicable to VOCs, SVOCs, ETPH, Pesticides, PCBs, and herbicides, and can also be applied to VPH/EPH.

- Holding Time (HT): "Gross" violation of HT; "gross" = greater than two times the allowable HT: reject all non-detected results
- Sample Preservation (VOCs only): Soil/sediment samples without methanol or water (alternative for low level VOCs only) preservation: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound
- Surrogate Recovery: recovery < 10%: reject associated non-detected results (see RCP method for compounds associated with surrogate by class), except if low recovery is due to necessary analytical dilution(s)
- Matrix Spike/Matrix Spike Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound in unspiked field sample only (i.e., field sample used for MS/MSD only)

NOTE: Calibrations and Internal Standards will not routinely be required from the laboratory or reviewed by M&E for RCP methods.

- Calibrations: RRF < 0.05 (with no technical justification for RRF being lower): reject non-detected results for affected compound in all associated samples

- Internal Standards: Area Counts < 20% of associated Calibration Standard: reject associated non-detected results, depending on which compounds are quantitated with the affected internal standard
- Dual Column Precision: %D > 100% for single-component pesticides and herbicides: reject positive and non-detected results; % D > 500% for multicomponent pesticides and Aroclors: reject positive and non-detected results
- Endrin/DDT Breakdown: Breakdown >20%: reject non-detected results for endrin or DDT, whichever is affected
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

CTDEP REASONABLE CONFIDENCE PROTOCOL
DATA QA/QC DOCUMENTATION WORKSHEET:
ANALYTICAL DATA USABILITY ASSESSMENT

DATE: July 10, 2009
PROJECT: Targeted Brownfield Assessment, Baltic Mill, Sprague, CT
LABORATORY (name and location): ESS Laboratory, Cranston, Rhode Island
SAMPLING DATE(S): May 19, 2009
ESS Work Order Number: 0905249
REVIEWED BY: K. Rutherford, Advanced Environmental Solutions, Inc.

ANALYSES AND ANALYTICAL METHODS:

Matrix	Analysis	Prep Method	Analytical Method
Soil	Volatile Organic Compounds	SW846 5035	SW846 8260B
Soil	Semivolatile Organic Compounds	SW846 3546	SW846 8270C
Soil	Extractable Total Petroleum Hydrocarbons	SW846 3546	CT ETPH SW846 8100M
Soil	Total Metals	SW846 3050B	SW846 6010B, 7471A, 7841

SAMPLES AND PARAMETERS:

Sample	VOC	SVOC	ETPH	Metals
TP-07 14’	X	X	X	X
TP-08 13’	X		X	
TP-08 4’		X		X
TP-11 4’		X	X	X
TP-12 2’		X	X	X
TP-15 2’		X	X	X
TP-16 2’		X	X	X
TP-13 1’		X	X	X
TP-14 2’		X	X	X
TP-14 8’		X	X	X
TP-17 5’		X	X	X
TP-140 2’		X	X	X
Trip Blank	X			

PROJECT OBJECTIVES: Soil analytical data were generated as part of a Targeted Brownfields Assessment of the Baltic Mills site in Sprague, Connecticut. The analytical data obtained for the investigation activities will be utilized in conjunction with data collected from previous investigation activities to characterize the nature and extent of contaminants of potential concern (COPC) impacts at the Site. Collectively, the data will also be utilized to confirm and/or revise the conceptual Site model, to develop an appropriate remedial action strategy that offers potential to achieve a Response Action Outcome (RAO), and to develop an “order-of-magnitude” remediation cost estimate.

Soil samples were analyzed and evaluated using the Connecticut Department of Environmental Protection’s (CTDEP) *Laboratory Quality Control Assurance and Quality Control, Data Quality Assessment and Data Usability Evaluation Guidance Document*, May 2009 criteria in order to achieve Reasonable Confidence Protocols (RCPs) for the data set.

ANALYTES OF INTEREST/SITE HISTORY: The primary compounds of interest at this site are petroleum hydrocarbons, as well as semivolatile polynuclear aromatic hydrocarbons (PAH) and metals.

PROJECT ACTION LEVELS: RCP CT-Residential Direct Exposure Criteria (CT-RES DEC)

Data Usability Assessment	
List all activities that provided the analytical data reviewed in the course of conducting the Data Usability Assessment. Include the media sampled and the month and year the data were acquired.	(X) Listed below (for this SDG only). Activity: Sampling under a Targeted Brownfields Assessment, Baltic Mills, Sprague, CT Media: Soil Sampling Month and Year: May 2009 ( ) Attached separately
Discuss appropriateness of selected analytical methods to quantitatively support the site investigation (exclusive of sensitivity).	(X) Laboratory followed CTDEP RCP methods and the data meet the requirements for Reasonable Confidence Protocol; therefore, analytical methods were appropriate. ( ) Laboratory followed "Non-RCP" methods; however, analytical methods were appropriate and data is comparable to RCP data (explain below).
Discuss appropriateness of selected analytical methods' Reporting Limits (RL) with respect to CTDEP-RES DEC criteria.	( ) All Reporting Limits were at or below applicable criteria in all samples. (X) Reporting Limits were above applicable CTDEP-RES DEC criteria for certain analytes in certain samples, due to sample dilution because of elevated concentrations of other target analytes, non-target analytes, or matrix interferences. – ( ) This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. – (X) This limitation is significant for the following analytes and samples: Sample **TP-07 14'**: 1,2-Dibromo-3-Chloropropane 1,2-Dibromoethane Acrylonitrile Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene ( ) Reporting limits were above applicable CTDEP RCP criteria for the following analytes that are acknowledged Potentially Difficult Compounds in the RCP documents:

Data Usability Assessment	
	– ( ) This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. – ( ) This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available. (X) Reporting limits were above applicable CTDEP RCP criteria for the following samples and analytes, unrelated to dilution and exclusive of Potentially Difficult Compounds identified in the RCP documents: – (X) This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. Sample **Trip Blank:** 1,2-Dibromoethane – ( ) This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.
Discuss laboratory performance criteria and data quality indicators utilized to assess overall <u>Analytical Accuracy</u> (continuing calibration, laboratory control spikes, etc.) and <u>Analytical Precision</u> (laboratory duplicates, laboratory control spike duplicates, etc.). For RCP data, see Laboratory Analysis QA/QC Certification Form and Laboratory Case Narrative.	( ) Met all RCP requirements and performance standards without qualification. (X) Did not meet all RCP requirements and performance standards. <u>Surrogate Recoveries:</u> ( ) All criteria met (X) Recoveries for some samples and analytes were outside criteria, leading to potential bias in results as summarized below: Sample **TP-07 14'**: The recovery of ETPH surrogate o-terphenyl was outside the recovery limits in sample TP-07 14' due to matrix interference. The sample was re-analyzed to confirm the result. The positive ETPH result in sample TP-07 14' may be biased; the direction of bias is not known. Sample **TP-07 14'**: The recovery of SVOC surrogate nitrobenzene-d5 was below the recovery limits in sample TP-07 14' due to matrix interference. The sample was not re-analyzed to confirm the result. The positive and nondetect SVOC results in sample TP-07 14' may be biased low. ( ) Poor recoveries led to some data rejection; see Section on Rejections. <u>Method Blanks:</u> (X) No detections in blanks ( ) The following analytes were detected in one or more blanks, but concentrations are well below Project Action Levels, and/or analytes were not detected in associated field samples:

Data Usability Assessment	
	( ) The following analytes were detected in one or more blanks and also in field samples. Data validation under EPA Region I Tier II guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization: Laboratory Control Spikes/LCSD: (X) All criteria met ( ) Recoveries and/or RPDs outside criteria for some analytes as described below; some bias may be present: ( ) Poor recoveries led to some data rejection; see Section on Rejections. ( ) Poor recoveries led to some data rejection; see Section on Rejections. MS/MSD: (X) Site-specific MS/MSD performed; see Field Data Usability discussion ( ) Site-specific MS/MSD not requested Other Items (not RCP-required deliverables – these items may be requested from lab and reviewed at Project Manager's discretion): GC/MS Tunes: **Consistent with the CT RCP, this data was not requested and was therefore not reviewed.** Calibrations: **Consistent with the CT RCP, this data was not requested and was therefore not reviewed.** Internal Standards: **Consistent with the CT RCP, this data was not requested and was therefore not reviewed.** Laboratory Fortified Blanks: **Not applicable.**
Discuss performance criteria and data quality indicators utilized to assess overall Field Data Usability (sample preservation compliance, sample sub sampling/compositing, etc.)	(X) Sampling procedures as performed and sample containers used met all RCP requirements and performance standards without qualification. ( ) Variances from RCP requirements and performance standards for sampling procedures or containers occurred. Discuss data usability implications here. (X) Sample preservation requirements and holding times met all RCP requirements and performance standards without qualification. ( ) Variances from RCP requirements occurred. Discuss data usability implications here or reference where discussed elsewhere (e.g., under Rejections).

Data Usability Assessment

Field QC Sample Evaluation

Field Duplicate RPDs:

( ) Field duplicates not collected from this site.

(X) RPD met criteria (≤ 50% for soil and ≤ 30% for aqueous for detected analytes under the following circumstances):

( ) RPD exceeded limits for the following analytes:

- ( ) All detections in both samples are well below applicable CTDEP RCP criteria; precision is acceptable for site decision-making
- ( ) Variability of concentrations near applicable standards indicates more data may be needed for the following analytes and samples:

Site-Specific MS/MSD:
( ) None collected

( ) Collected and recoveries/RPDs within criteria

(X) Collected; poor precision and/or accuracy noted in case narrative for some analytes indicates potential bias, as follows:

The recovery of chromium and lead in the matrix spike of sample TP-08 4' is below criteria. The positive and nondetect results for chromium and lead in all soil samples may be biased low.

The recovery of antimony in the matrix spike of samples TP-08 4' and TP-140 2' is below criteria. The nondetect results for antimony in all soil samples may be biased low.

The recovery of zinc in the matrix spike of sample TP-08 4' is above criteria. The positive results for zinc in all soil samples may be biased high.

The recovery of ETPH in the matrix spike and matrix spike duplicate of sample TP-07 4' is below criteria. Since the result of the sample is >4X the spike amount, the data is usable for project objectives.

( ) Collected; poor recoveries require data rejection as discussed in Section on Rejections.

Trip Blanks:
( ) None collected

(X) Collected, no detections

( ) The following analytes were detected in one or more blanks:

( ) The following analytes were detected in one or more blanks and also in field

Data Usability Assessment	
	samples. Data validation under EPA Region I Tier II guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization: Equipment / Rinsate Blanks: (X) None collected ( ) Collected, no detections ( ) The following analytes were detected in one or more blanks and also in field samples. Data validation under EPA Region I Tier II guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:
Discuss any data rejected pursuant to EPA Region I Tier II guidelines. Provide **Technical Justification** if data rejections are applied to results that may meet EPA Region I Tier II guidelines, but are still rejected based on professional judgment. Provide **Technical Justification** if data are judged usable based on professional judgment, despite failure of EPA Region I Tier II guidelines	(X) No data rejected pursuant to **EPA Region I Tier II guidelines** ( ) Rejections are recommended based on the following **EPA Region I Tier II guidelines** criteria (see attached data summary table with rejections marked): ( ) Some rejection decisions were made that are not fully in accordance with EPA Region I Tier II guidelines. Affected samples/analytes and Technical Justification follow:

Summarize analytical data usability for this Sample Delivery Group.	( ) All data are usable for project objectives. No potential for bias is indicated. (X) Data are usable for project objectives, with limitations as noted below: <u>Sensitivity – Comparison to Standards:</u> – (X) Non-detects for the following analytes are not usable for direct comparison to applicable CTDEP RCP criteria, because reporting limits in one or more field samples exceeded criteria, and the analytes are Analytes of Interest for this site: Sample **TP-07 14'**: 1,2-Dibromo-3-Chloropropane 1,2-Dibromoethane Acrylonitrile Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene <u>Sensitivity – Blank Contamination</u> – ( ) The following analytes were detected in one or more blanks and also in field samples. Data validation under EPA Region I Tier II guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization: <u>Accuracy/Bias:</u> – (X) Bias is likely for the following Analytes of Interest and samples, based on surrogate recoveries outside criteria: Sample **TP-07 14'**: The positive ETPH result in sample TP-07 14' may be biased; the direction of bias is not known. Sample **TP-07 14'**: The positive and nondetect SVOC results in sample TP-07 14' may be biased low. – (X) Bias is likely for the following Analytes of Interest and samples, based on MS/MSD, LCS/LCSD, internal standard and/or LFB recoveries outside criteria: The positive and nondetect results for chromium and lead in all soil samples may be biased low. The nondetect results for antimony in all soil samples may be biased low. The positive results for zinc in all soil samples may be biased high.

	Precision: – ( ) Precision does not meet RPD criteria for the following Analytes of Interest, based on review of field duplicate results: ( ) Data for the following Analytes of Interest in the following samples are not usable because results were rejected due to limitations identified in the quality control review:

REJECTION CRITERIA – ANALYTICAL DATA USABILITY ASSESSMENTS

Purpose: To determine if data are unusable for supporting environmental investigation and remediation due to gross failure of quality control.

References:

EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 (updated in February 2004 for pesticides/PCBs).

Region I Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses, February 1989.

Definition of Rejected Data: The data are unusable (analyte/compound may or may not be present) due to gross failure of quality control criteria and cannot be used to support project objectives.

Inorganic Criteria for Rejection of Data: Applicable to metals, hexavalent chromium, cyanide, and other inorganic parameters.

- Holding Time (HT): "Gross" violation of HT; "gross" = greater than two times the allowable HT: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries:
    - Aqueous samples only: recovery < 50%: reject all results for affected analyte (professional judgment commonly used if LCS < 50% but MS shows acceptable recovery to determine result as usable; professional judgment may be used to reject non-detected results only)
    - Soil: solid LCS or Standard Reference Material recoveries compared to vendor control limits: use professional judgment on rejection of data
- Matrix Spike (MS) Recovery: recovery < 30%: reject non-detected results for affected analyte in all associated samples in batch (up to 20 associated samples). Exception: Low recovery of hexavalent chromium in soils may be acceptable if supported by pH and ORP data which demonstrate reducing conditions
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

Organic Criteria for Rejection of Data Applicable to VOCs, SVOCs, ETPH, Pesticides, PCBs, and herbicides, and can also be applied to VPH/EPH.

- Holding Time (HT): "Gross" violation of HT; "gross" = greater than two times the allowable HT: reject all non-detected results
- Sample Preservation (VOCs only): Soil/sediment samples without methanol or water (alternative for low level VOCs only) preservation: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound
- Surrogate Recovery: recovery < 10%: reject associated non-detected results (see RCP method for compounds associated with surrogate by class), except if low recovery is due to necessary analytical dilution(s)
- Matrix Spike/Matrix Spike Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound in unspiked field sample only (i.e., field sample used for MS/MSD only)

NOTE: Calibrations and Internal Standards will not routinely be required from the laboratory or reviewed by M&E for RCP methods.

- Calibrations: RRF < 0.05 (with no technical justification for RRF being lower): reject non-detected results for affected compound in all associated samples

- Internal Standards: Area Counts < 20% of associated Calibration Standard: reject associated non-detected results, depending on which compounds are quantitated with the affected internal standard
- Dual Column Precision: %D > 100% for single-component pesticides and herbicides: reject positive and non-detected results; % D > 500% for multicomponent pesticides and Aroclors: reject positive and non-detected results
- Endrin/DDT Breakdown: Breakdown >20%: reject non-detected results for endrin or DDT, whichever is affected
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

CTDEP REASONABLE CONFIDENCE PROTOCOL
DATA QA/QC DOCUMENTATION WORKSHEET:
ANALYTICAL DATA USABILITY ASSESSMENT

DATE: July 10, 2009
PROJECT: Targeted Brownfield Assessment, Baltic Mill, Sprague, CT
LABORATORY (name and location): ESS Laboratory, Cranston, Rhode Island
SAMPLING DATE(S): May 20, 2009
ESS Work Order Number: 0905266
REVIEWED BY: K. Rutherford, Advanced Environmental Solutions, Inc.

ANALYSES AND ANALYTICAL METHODS:

Matrix	Analysis	Prep Method	Analytical Method
Soil	Semivolatile Organic Compounds	SW846 3546	SW846 8270C
Soil	Extractable Total Petroleum Hydrocarbons	SW846 3546	CT ETPH SW846 8100M
Soil	Total Metals	SW846 3050B	SW846 6010B, 7471A, 7841

SAMPLES AND PARAMETERS:

Sample	SVOC	ETPH	Metals
TP-18 2.5'	X	X	X
TP-19 2'	X	X	X
TP-22 2'	X	X	X

PROJECT OBJECTIVES: Soil analytical data were generated as part of a Targeted Brownfields Assessment of the Baltic Mills site in Sprague, Connecticut. The analytical data obtained for the investigation activities will be utilized in conjunction with data collected from previous investigation activities to characterize the nature and extent of contaminants of potential concern (COPC) impacts at the Site. Collectively, the data will also be utilized to confirm and/or revise the conceptual Site model, to develop an appropriate remedial action strategy that offers potential to achieve a Response Action Outcome (RAO), and to develop an "order-of-magnitude" remediation cost estimate.

Soil samples were analyzed and evaluated using the Connecticut Department of Environmental Protection's (CTDEP) *Laboratory Quality Control Assurance and Quality Control, Data Quality Assessment and Data Usability Evaluation Guidance Document*, May 2009 criteria in order to achieve Reasonable Confidence Protocols (RCPs) for the data set.

ANALYTES OF INTEREST/SITE HISTORY: The primary compounds of interest at this site are petroleum hydrocarbons, as well as semivolatile polynuclear aromatic hydrocarbons (PAH) and metals.

PROJECT ACTION LEVELS: RCP CT-Residential Direct Exposure Criteria (CT-RES DEC)

Data Usability Assessment	
List all activities that provided the analytical data reviewed in the course of conducting the Data Usability Assessment. Include the media sampled and the month and year the data were acquired.	(X) Listed below (for this SDG only). Activity: Sampling under a Targeted Brownfields Assessment, Baltic Mills, Sprague, CT Media: Soil Sampling Month and Year: May 2009 ( ) Attached separately
Discuss appropriateness of selected analytical methods to quantitatively support the site investigation (exclusive of sensitivity).	(X) Laboratory followed CTDEP RCP methods and the data meet the requirements for Reasonable Confidence Protocol; therefore, analytical methods were appropriate. ( ) Laboratory followed "Non-RCP" methods; however, analytical methods were appropriate and data is comparable to RCP data (explain below).
Discuss appropriateness of selected analytical methods' Reporting Limits (RL) with respect to CTDEP-RES DEC criteria.	(X) All Reporting Limits were at or below applicable criteria in all samples. ( ) Reporting Limits were above applicable CTDEP-RES DEC criteria for certain analytes in certain samples, due to sample dilution because of elevated concentrations of other target analytes, non-target analytes, or matrix interferences. – ( ) This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. – ( ) This limitation is significant for the following analytes and samples: ( ) Reporting limits were above applicable CTDEP RCP criteria for the following analytes that are acknowledged Potentially Difficult Compounds in the RCP documents: – ( ) This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. – ( ) This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.

Data Usability Assessment	
	( ) Reporting limits were above applicable CTDEP RCP criteria for the following samples and analytes, unrelated to dilution and exclusive of Potentially Difficult Compounds identified in the RCP documents: – ( ) This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. ( ) This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available.
Discuss laboratory performance criteria and data quality indicators utilized to assess overall Analytical Accuracy (continuing calibration, laboratory control spikes, etc.) and Analytical Precision (laboratory duplicates, laboratory control spike duplicates, etc.). For RCP data, see Laboratory Analysis QA/QC Certification Form and Laboratory Case Narrative.	( ) Met all RCP requirements and performance standards without qualification. (X) Did not meet all RCP requirements and performance standards. Surrogate Recoveries: (X) All criteria met ( ) Recoveries for some samples and analytes were outside criteria, leading to potential bias in results as summarized below: ( ) Poor recoveries led to some data rejection; see Section on Rejections. Method Blanks: (X) No detections in blanks ( ) The following analytes were detected in one or more blanks, but concentrations are well below Project Action Levels, and/or analytes were not detected in associated field samples: ( ) The following analytes were detected in one or more blanks and also in field samples. Data validation under EPA Region I Tier II guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization: Laboratory Control Spikes/LCSD: (X) All criteria met ( ) Recoveries and/or RPDs outside criteria for some analytes as described below; some bias may be present: ( ) Poor recoveries led to some data rejection; see Section on Rejections. ( ) Poor recoveries led to some data rejection; see Section on Rejections. MS/MSD: (X) Site-specific MS/MSD performed; see Field Data Usability discussion ( ) Site-specific MS/MSD not requested

Data Usability Assessment	
	Other Items (not RCP-required deliverables – these items may be requested from lab and reviewed at Project Manager's discretion): GC/MS Tunes: **Consistent with the CT RCP, this data was not requested and was therefore not reviewed.** Calibrations: **Consistent with the CT RCP, this data was not requested and was therefore not reviewed.** Internal Standards: **Consistent with the CT RCP, this data was not requested and was therefore not reviewed.** Laboratory Fortified Blanks: **Not applicable.**
Discuss performance criteria and data quality indicators utilized to assess overall Field Data Usability (sample preservation compliance, sample sub sampling/compositing, etc.)	(X) Sampling procedures as performed and sample containers used met all RCP requirements and performance standards without qualification. ( ) Variances from RCP requirements and performance standards for sampling procedures or containers occurred. Discuss data usability implications here. (X) Sample preservation requirements and holding times met all RCP requirements and performance standards without qualification. ( ) Variances from RCP requirements occurred. Discuss data usability implications here or reference where discussed elsewhere (e.g., under Rejections). Field QC Sample Evaluation Field Duplicate RPDs: (X) Field duplicates not collected from this site. ( ) RPD met criteria (≤ 50% for soil and ≤ 30% for aqueous for detected analytes under the following circumstances): ( ) RPD exceeded limits for the following analytes: – ( ) All detections in both samples are well below applicable CTDEP RCP criteria; precision is acceptable for site decision-making – ( ) Variability of concentrations near applicable standards indicates more data may be needed for the following analytes and samples: Site-Specific MS/MSD: ( ) None collected ( ) Collected and recoveries/RPDs within criteria (X) Collected; poor precision and/or accuracy noted in case narrative for some analytes indicates potential bias, as follows:

Data Usability Assessment	
	The recovery of antimony and lead in the matrix spike of sample TP-19 2' is below criteria. The positive and nondetect results for antimony and lead in all soil samples may be biased low. The recovery and PRD of ETPH in the matrix spike and matrix spike duplicate of sample TP-19 2' is above criteria. Since the result of the sample is >4X the spike amount, the data is usable for project objectives. The recovery of fluoranthene in the matrix spike duplicate of sample TP-19 2' is above criteria. The relative percent difference (RPD) between the matrix spike and matrix spike duplicate is also above criteria. The positive result for fluoranthene in soil sample TP-19 2' may be biased high. The recovery of phenanthrene and pyrene in the matrix spike duplicate sample of TP-19 2' is below criteria. The RPD between the matrix spike and the matrix spike duplicate is also above criteria. The positive results for phenanthrene and pyrene in soil sample TP-19 2' may be biased high. ( ) Collected; poor recoveries require data rejection as discussed in Section on Rejections. <u>Trip Blanks:</u> (X) None collected ( ) Collected, no detections ( ) The following analytes were detected in one or more blanks: ( ) The following analytes were detected in one or more blanks and also in field samples. Data validation under EPA Region I Tier II guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization: <u>Equipment / Rinsate Blanks:</u> (X) None collected ( ) Collected, no detections ( ) The following analytes were detected in one or more blanks and also in field samples. Data validation under EPA Region I Tier II guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

Data Usability Assessment	
Discuss any data rejected pursuant to EPA Region I Tier II guidelines. Provide **Technical Justification** if data rejections are applied to results that may meet EPA Region I Tier II guidelines, but are still rejected based on professional judgment. Provide **Technical Justification** if data are judged usable based on professional judgment, despite failure of EPA Region I Tier II guidelines	(X) No data rejected pursuant to **EPA Region I Tier II guidelines** ( ) Rejections are recommended based on the following **EPA Region I Tier II guidelines** criteria (see attached data summary table with rejections marked): ( ) Some rejection decisions were made that are not fully in accordance with EPA Region I Tier II guidelines. Affected samples/analytes and Technical Justification follow:

Summarize analytical data usability for this Sample Delivery Group.	( ) All data are usable for project objectives. No potential for bias is indicated. (X) Data are usable for project objectives, with limitations as noted below: <u>Sensitivity – Comparison to Standards:</u> – ( ) Non-detects for the following analytes are not usable for direct comparison to applicable CTDEP RCP criteria, because reporting limits in one or more field samples exceeded criteria, and the analytes are Analytes of Interest for this site: <u>Sensitivity – Blank Contamination</u> – ( ) The following analytes were detected in one or more blanks and also in field samples. Data validation under EPA Region I Tier II guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization: <u>Accuracy/Bias:</u> – ( ) Bias is likely for the following Analytes of Interest and samples, based on surrogate recoveries outside criteria: – (X) Bias is likely for the following Analytes of Interest and samples, based on MS/MSD, LCS/LCSD, internal standard and/or LFB recoveries outside criteria: The positive and nondetect results for antimony and lead in all soil samples may be biased low. The positive result for fluoranthene in soil sample TP-19 2' may be biased high. The positive results for phenanthrene and pyrene in soil sample TP-19 2' may be biased high. <u>Precision:</u> – ( ) Precision does not meet RPD criteria for the following Analytes of Interest, based on review of field duplicate results: ( ) Data for the following Analytes of Interest in the following samples are not usable because results were rejected due to limitations identified in the quality control review:

REJECTION CRITERIA – ANALYTICAL DATA USABILITY ASSESSMENTS

Purpose: To determine if data are unusable for supporting environmental investigation and remediation due to gross failure of quality control.

References:

EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 (updated in February 2004 for pesticides/PCBs).

Region I Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses, February 1989.

Definition of Rejected Data: The data are unusable (analyte/compound may or may not be present) due to gross failure of quality control criteria and cannot be used to support project objectives.

Inorganic Criteria for Rejection of Data: Applicable to metals, hexavalent chromium, cyanide, and other inorganic parameters.

- Holding Time (HT): "Gross" violation of HT; "gross" = greater than two times the allowable HT: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries:
    - Aqueous samples only: recovery < 50%: reject all results for affected analyte (professional judgment commonly used if LCS < 50% but MS shows acceptable recovery to determine result as usable; professional judgment may be used to reject non-detected results only)
    - Soil: solid LCS or Standard Reference Material recoveries compared to vendor control limits: use professional judgment on rejection of data
- Matrix Spike (MS) Recovery: recovery < 30%: reject non-detected results for affected analyte in all associated samples in batch (up to 20 associated samples). Exception: Low recovery of hexavalent chromium in soils may be acceptable if supported by pH and ORP data which demonstrate reducing conditions
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

Organic Criteria for Rejection of Data Applicable to VOCs, SVOCs, ETPH, Pesticides, PCBs, and herbicides, and can also be applied to VPH/EPH.

- Holding Time (HT): "Gross" violation of HT; "gross" = greater than two times the allowable HT: reject all non-detected results
- Sample Preservation (VOCs only): Soil/sediment samples without methanol or water (alternative for low level VOCs only) preservation: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound
- Surrogate Recovery: recovery < 10%: reject associated non-detected results (see RCP method for compounds associated with surrogate by class), except if low recovery is due to necessary analytical dilution(s)
- Matrix Spike/Matrix Spike Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound in unspiked field sample only (i.e., field sample used for MS/MSD only)

NOTE: Calibrations and Internal Standards will not routinely be required from the laboratory or reviewed by M&E for RCP methods.

- Calibrations: RRF < 0.05 (with no technical justification for RRF being lower): reject non-detected results for affected compound in all associated samples

- Internal Standards: Area Counts < 20% of associated Calibration Standard: reject associated non-detected results, depending on which compounds are quantitated with the affected internal standard
- Dual Column Precision: %D > 100% for single-component pesticides and herbicides: reject positive and non-detected results; % D > 500% for multicomponent pesticides and Aroclors: reject positive and non-detected results
- Endrin/DDT Breakdown: Breakdown >20%: reject non-detected results for endrin or DDT, whichever is affected
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

CTDEP REASONABLE CONFIDENCE PROTOCOL DATA QA/QC DOCUMENTATION WORKSHEET: ANALYTICAL DATA USABILITY ASSESSMENT

DATE: December 11, 2009
PROJECT: Targeted Brownfield Assessment, Baltic Mill, Sprague, CT
LABORATORY (name and location): ESS Laboratory, Cranston, Rhode Island
SAMPLING DATE(S): October 7, 2009
ESS Work Order Number: 0910111
REVIEWED BY: K. Rutherford, Advanced Environmental Solutions, Inc.

ANALYSES AND ANALYTICAL METHODS:

Matrix	Analysis	Prep Method	Analytical Method
Groundwater	Extractable Petroleum Hydrocarbons (EPH)	SW846 3510C	CT-RCP EPH
Groundwater	Target PAHs	SW846 3510C	SW846 8270C

SAMPLES AND PARAMETERS:

Sample	EPH	PAH
MW-1	X	X

PROJECT OBJECTIVES: Groundwater analytical data were generated as part of a Targeted Brownfields Assessment of the Baltic Mills site in Sprague, Connecticut. The analytical data obtained for the investigation activities will be utilized in conjunction with data collected from previous investigation activities to characterize the nature and extent of contaminants of potential concern (COPC) impacts at the Site. Collectively, the data will also be utilized to confirm and/or revise the conceptual Site model, to develop an appropriate remedial action strategy that offers potential to achieve a Response Action Outcome (RAO), and to develop an "order-of-magnitude" remediation cost estimate.

The groundwater sample was analyzed and evaluated using the Connecticut Department of Environmental Protection's (CTDEP) *Laboratory Quality Control Assurance and Quality Control, Data Quality Assessment and Data Usability Evaluation Guidance Document*, May 2009 criteria in order to achieve Reasonable Confidence Protocols (RCPs) for the data set.

ANALYTES OF INTEREST/SITE HISTORY: The primary compounds of interest at this site are extractable petroleum hydrocarbons, as well as semivolatile organic compounds (SVOCs).

PROJECT ACTION LEVELS: Groundwater results for SVOCs were compared to Connecticut Groundwater Protection Criteria. Groundwater standards for the hydrocarbon fractions were obtained from the Massachusetts Contingency Plan, 310 CMR 40.0970, Revised December 2007. The CTDEP does not have established standards for the above carbon fractions.

Data Usability Assessment	
List all activities that provided the analytical data reviewed in the course of conducting the Data Usability Assessment. Include the media sampled and the month and year the data were acquired.	(X) Listed below (for this SDG only). Activity: Sampling under a Targeted Brownfields Assessment, Baltic Mills, Sprague, CT Media: Groundwater Sampling Month and Year: October 2009 ( ) Attached separately
Discuss appropriateness of selected analytical methods to quantitatively support the site investigation (exclusive of sensitivity).	(X) Laboratory followed CTDEP RCP methods and the data meet the requirements for Reasonable Confidence Protocol; therefore, analytical methods were appropriate. ( ) Laboratory followed "Non-RCP" methods; however, analytical methods were appropriate and data is comparable to RCP data (explain below).
Discuss appropriateness of selected analytical methods' Reporting Limits (RL) with respect to CT-GA GWPC criteria.	( ) All Reporting Limits were at or below applicable criteria in all samples. ( ) Reporting Limits were above applicable CT-GA GWPC criteria for certain analytes in certain samples, due to sample dilution because of elevated concentrations of other target analytes, non-target analytes, or matrix interferences. – ( ) This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. – ( ) This limitation is significant for the following analytes and samples: ( ) Reporting limits were above applicable CTDEP RCP criteria for the following analytes that are acknowledged Potentially Difficult Compounds in the RCP documents: – ( ) This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. – ( ) This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available. (X) Reporting limits were above applicable CTDEP RCP criteria for the following samples and analytes, unrelated to dilution and exclusive of Potentially Difficult Compounds identified in the RCP documents:

Data Usability Assessment	
	– ( ) This limitation is not significant because these analytes were not defined as Analytes of Interest for this site. – (X) This limitation could be significant and site decision-makers may wish to consider additional sampling and specialized analytical methods, if available. Sample **MW-1**: Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)Anthracene Indeno(1,2,3-cd)Pyrene
Discuss laboratory performance criteria and data quality indicators utilized to assess overall Analytical Accuracy (continuing calibration, laboratory control spikes, etc.) and Analytical Precision (laboratory duplicates, laboratory control spike duplicates, etc.). For RCP data, see Laboratory Analysis QA/QC Certification Form and Laboratory Case Narrative.	(X) Met all RCP requirements and performance standards without qualification. ( ) Did not meet all RCP requirements and performance standards. Surrogate Recoveries: (X) All criteria met ( ) Recoveries for some samples and analytes were outside criteria, leading to potential bias in results as summarized below: ( ) Poor recoveries led to some data rejection; see Section on Rejections. Method Blanks: (X) No detections in blanks ( ) The following analytes were detected in one or more blanks, but concentrations are well below Project Action Levels, and/or analytes were not detected in associated field samples: ( ) The following analytes were detected in one or more blanks and also in field samples. Data validation under EPA Region I Tier II guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization: Laboratory Control Spikes/LCSD: (X) All criteria met ( ) Recoveries and/or RPDs outside criteria for some analytes as described below; some bias may be present: ( ) Poor recoveries led to some data rejection; see Section on Rejections. ( ) Poor recoveries led to some data rejection; see Section on Rejections.

Data Usability Assessment	
	MS/MSD: ( ) Site-specific MS/MSD performed; see Field Data Usability discussion (X) Site-specific MS/MSD not requested Other Items (not RCP-required deliverables – these items may be requested from lab and reviewed at Project Manager's discretion): GC/MS Tunes: **Consistent with the CT RCP, this data was not requested and was therefore not reviewed.** Calibrations: **Consistent with the CT RCP, this data was not requested and was therefore not reviewed.** Internal Standards: **Consistent with the CT RCP, this data was not requested and was therefore not reviewed.** Laboratory Fortified Blanks: **Not applicable.**
Discuss performance criteria and data quality indicators utilized to assess overall Field Data Usability (sample preservation compliance, sample sub sampling/compositing, etc.)	(X) Sampling procedures as performed and sample containers used met all RCP requirements and performance standards without qualification. ( ) Variances from RCP requirements and performance standards for sampling procedures or containers occurred. Discuss data usability implications here. (X) Sample preservation requirements and holding times met all RCP requirements and performance standards without qualification. ( ) Variances from RCP requirements occurred. Discuss data usability implications here or reference where discussed elsewhere (e.g., under Rejections). Field QC Sample Evaluation Field Duplicate RPDs: (X) Field duplicates not collected from this site. ( ) RPD met criteria (≤ 50% for soil and ≤ 30% for aqueous for detected analytes under the following circumstances): ( ) RPD exceeded limits for the following analytes: – ( ) All detections in both samples are well below applicable CTDEP RCP criteria; precision is acceptable for site decision-making – ( ) Variability of concentrations near applicable standards indicates more data may be needed for the following analytes and samples: Site-Specific MS/MSD: (X) None collected ( ) Collected and recoveries/RPDs within criteria

Data Usability Assessment	
	( ) Collected; poor precision and/or accuracy noted in case narrative for some analytes indicates potential bias, as follows: ( ) Collected; poor recoveries require data rejection as discussed in Section on Rejections. Trip Blanks: (X) None collected ( ) Collected, no detections ( ) The following analytes were detected in one or more blanks: ( ) The following analytes were detected in one or more blanks and also in field samples. Data validation under EPA Region I Tier II guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization: Equipment / Rinsate Blanks: (X) None collected ( ) Collected, no detections ( ) The following analytes were detected in one or more blanks and also in field samples. Data validation under EPA Region I Tier II guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization:

Data Usability Assessment	
Discuss any data rejected pursuant to EPA Region I Tier II guidelines. Provide **Technical Justification** if data rejections are applied to results that may meet EPA Region I Tier II guidelines, but are still rejected based on professional judgment. Provide **Technical Justification** if data are judged usable based on professional judgment, despite failure of EPA Region I Tier II guidelines	(X) No data rejected pursuant to **EPA Region I Tier II guidelines** ( ) Rejections are recommended based on the following **EPA Region I Tier II guidelines** criteria (see attached data summary table with rejections marked): ( ) Some rejection decisions were made that are not fully in accordance with EPA Region I Tier II guidelines. Affected samples/analytes and Technical Justification follow:

Summarize analytical data usability for this Sample Delivery Group.	( ) All data are usable for project objectives. No potential for bias is indicated. (X) Data are usable for project objectives, with limitations as noted below: <u>Sensitivity – Comparison to Standards:</u> – (X) Non-detects for the following analytes are not usable for direct comparison to applicable to CT-GA GWPC criteria, because reporting limits in one or more field samples exceeded criteria, and the analytes are Analytes of Interest for this site: Sample **MW-1**: Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)Anthracene Indeno(1,2,3-cd)Pyrene <u>Sensitivity – Blank Contamination</u> – ( ) The following analytes were detected in one or more blanks and also in field samples. Data validation under EPA Region I Tier II guidelines may result in qualification of field sample data. Further validation effort recommended if data are to be used in a risk characterization: <u>Accuracy/Bias:</u> – ( ) Bias is likely for the following Analytes of Interest and samples, based on surrogate recoveries outside criteria: – ( ) Bias is likely for the following Analytes of Interest and samples, based on MS/MSD, LCS/LCSD, internal standard and/or LFB recoveries outside criteria: <u>Precision:</u> – ( ) Precision does not meet RPD criteria for the following Analytes of Interest, based on review of field duplicate results: ( ) Data for the following Analytes of Interest in the following samples are not usable because results were rejected due to limitations identified in the quality control review:

REJECTION CRITERIA – ANALYTICAL DATA USABILITY ASSESSMENTS

Purpose: To determine if data are unusable for supporting environmental investigation and remediation due to gross failure of quality control.

References:

EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 (updated in February 2004 for pesticides/PCBs).

Region I Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses, February 1989.

Definition of Rejected Data: The data are unusable (analyte/compound may or may not be present) due to gross failure of quality control criteria and cannot be used to support project objectives.

Inorganic Criteria for Rejection of Data: Applicable to metals, hexavalent chromium, cyanide, and other inorganic parameters.

- Holding Time (HT): "Gross" violation of HT; "gross" = greater than two times the allowable HT: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries:
    - Aqueous samples only: recovery < 50%: reject all results for affected analyte (professional judgment commonly used if LCS < 50% but MS shows acceptable recovery to determine result as usable; professional judgment may be used to reject non-detected results only)
    - Soil: solid LCS or Standard Reference Material recoveries compared to vendor control limits: use professional judgment on rejection of data
- Matrix Spike (MS) Recovery: recovery < 30%: reject non-detected results for affected analyte in all associated samples in batch (up to 20 associated samples). Exception: Low recovery of hexavalent chromium in soils may be acceptable if supported by pH and ORP data which demonstrate reducing conditions
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

Organic Criteria for Rejection of Data Applicable to VOCs, SVOCs, ETPH, Pesticides, PCBs, and herbicides, and can also be applied to VPH/EPH.

- Holding Time (HT): "Gross" violation of HT; "gross" = greater than two times the allowable HT: reject all non-detected results
- Sample Preservation (VOCs only): Soil/sediment samples without methanol or water (alternative for low level VOCs only) preservation: reject all non-detected results
- Laboratory Control Sample (LCS) and LCS Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound
- Surrogate Recovery: recovery < 10%: reject associated non-detected results (see RCP method for compounds associated with surrogate by class), except if low recovery is due to necessary analytical dilution(s)
- Matrix Spike/Matrix Spike Duplicate Recoveries: recovery < 10%: reject non-detected results for affected compound in unspiked field sample only (i.e., field sample used for MS/MSD only)

NOTE: Calibrations and Internal Standards will not routinely be required from the laboratory or reviewed for RCP methods.

- Calibrations: RRF < 0.05 (with no technical justification for RRF being lower): reject non-detected results for affected compound in all associated samples

- Internal Standards: Area Counts < 20% of associated Calibration Standard: reject associated non-detected results, depending on which compounds are quantitated with the affected internal standard
- Dual Column Precision: %D > 100% for single-component pesticides and herbicides: reject positive and non-detected results; % D > 500% for multicomponent pesticides and Aroclors: reject positive and non-detected results
- Endrin/DDT Breakdown: Breakdown >20%: reject non-detected results for endrin or DDT, whichever is affected
- Professional Judgment: Example – severely poor overall instrument performance may cause all associated data to be rejected; if percent solids content very low (<10%), may reject data

APPENDIX D

SITE PHOTOGRAPHS

Former Underground Storage Tank Area

Remnants of Building No. 10 Addition

Buildings No. 6 (Pump Room) and No. 7 (Boiler House)

Water Tank

Ruins of Former Power House

Old Foundation Slab and Debris of Original Mill Building

Tailrace and Peninsula Area in the Background

Peninsula Area Near the Reported Location of the Coal Gasification Plant