

#### POLYCHLORINATED BIPHENYL (PCB) INVESTIGATION AND CLEANUP REPORT

#### FORMER KELLY-MOORE MANUFACTURING FACILITY 5410 AIRPORT WAY SOUTH SEATTLE, WASHINGTON

Submitted to: Kelly-Moore Paint Company, Inc., San Carlos, California

> Submitted by: AMEC Geomatrix, Inc., Seattle, Washington

> > January 2010

Project 14697





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#### POLYCHLORINATED BIPHENYL (PCB) INVESTIGATION AND CLEANUP REPORT

Former Kelly-Moore Manufacturing Facility 5400-5410 Airport Way South Seattle, Washington

#### 1.0 INTRODUCTION

AMEC Geomatrix, Inc. (AMEC), was retained by Kelly-Moore Paint Company, Inc. (Kelly-Moore), to conduct an investigation of polychlorinated biphenyls (PCBs) at the former Kelly-Moore paint production plant at 5410 Airport Way South, in Seattle, Washington (the facility) (Figure 1). The facility was used for blending paints and pigments, earlier as Preservative Paint Company, and later as Kelly-Moore. The facility has discontinued production, and Kelly-Moore is preparing the facility for lease or sale as light manufacturing or warehousing space.

In September 2008, AMEC conducted a preliminary investigation of the facility to evaluate the presence or absence of PCBs in the buildings during the facility closure process in the former manufacturing area (Buildings 6, 7, and 8) of the facility. One wipe sample collected in Building 8 showed slightly elevated concentrations of PCBs (10.9 micrograms per 100 square centimeters [µg/100 cm<sup>2</sup>]) in the concrete flooring (Figure 2). Additional samples of concrete chips and sediment collected near one of the wipe sample locations contained total PCB concentrations of 35 milligrams per kilogram (mg/kg) and 41 mg/kg, respectively. The source of the PCBs detected in the wipe, concrete, and sediment samples was unknown. As a result of these detections of PCBs, Kelly-Moore decided that further investigations were necessary to characterize the nature and extent of the PCBs within the buildings. A work plan for the PCB investigation was submitted to the U.S. Environmental Protection Agency (EPA) by AMEC in July 2009 (AMEC, 2009a). An addendum to the work plan was submitted in August 2009 to include characterization of an additional portion of the facility (AMEC 2009b). The work plan was prepared in accordance with the requirements of the Toxic Substances Control Act (TSCA), Code of Federal Regulations, Title 40, Part 261 (40 CFR 261) concerning PCBs.

This report describes the PCB sampling, summarizes the results, and describes initial cleanup work conducted to date to remediate PCBs.



#### 1.1 **PROJECT OBJECTIVE**

The objective of this PCB investigation is to characterize the nature and extent of PCB concentrations throughout the former manufacturing areas of the facility to the extent necessary for Kelly-Moore to make decisions on cleanup and ultimate property use.

More specifically, this report was prepared to accomplish the following:

- Describe the methods used to further investigate PCBs at the facility;
- Preliminarily assess the concentrations of PCBs in the floor and walls at the facility;
- Describe the methods used to clean up PCBs at the facility;
- Summarize the results of cleanup conducted to date; and
- Assess areas of the facility where PCB concentrations warrant further investigation or remedial action.

#### 1.2 SCOPE OF WORK

The scope of work completed for the PCB investigation included the following tasks:

- Cleaning of floors at the facility before sampling;
- Sampling of porous and nonporous surfaces for PCBs (Phase I and II);
- Screening of results against TSCA criteria;
- Identification of areas of the facility requiring cleanup in accordance with TSCA to reduce PCB concentrations to less than 1 part per million (ppm), the cleanup level established by EPA for high-occupancy areas;
- Identification and implementation of mitigation options to address areas where concentrations of PCBs are greater than 1 ppm (Phase III); and
- Confirmation sampling to evaluate the success of mitigation measures completed to date (Phase IV).



#### 2.0 FACILITY DESCRIPTION AND BACKGROUND

This section describes the current layout and provides a brief history of the property.

#### 2.1 SITE DESCRIPTION

The facility is located on the east side of Airport Way South, at the intersection of South Lucile Street, in Seattle, Washington (Figure 1). It is bordered on the north by Burlington Northern Santa Fe Corporation (BNSF) railroad tracks and Olympic Foundry, on the west by Airport Way South and the Airport Way South overpass, on the east by BNSF railroad tracks and a steep hillside, and on the south by an Interstate 5 overpass.

The facility is a former paint manufacturing facility that discontinued manufacturing activities in 2008. The facility currently consists of a building complex at the north end of the property and a large warehouse building at the south end of the property. The building complex on the north end is a large conglomeration of buildings of various ages that has been present on the property in some form since the 1920s (SEACOR, 1994, 1997). Figure 2 shows the configuration of the northern building complex, which consists of Buildings 1 through 10 and Building 12. These buildings contain both office and manufacturing/warehouse space. According to facility personnel, Buildings 6, 7, and 8 were the predominant manufacturing areas in recent years. A small electrical room is located above Building 7, and a second floor is present in Buildings. Various strip drains, scale pits, and sumps are located throughout the buildings.

The large warehouse building at the south end of the property was constructed in 1997. A paved parking lot is located south of this southern building.

#### 2.2 BACKGROUND

The property has been used for industrial purposes since the early 1900s. It has historically been used as a paint manufacturing facility, an automobile service station (and potentially a wrecking yard), a union hall, and for coal storage, according to a Phase I environmental site assessment (SEACOR, 1994, 1997).

In 2008, Kelly-Moore discontinued paint production activities at the site. AMEC assisted Kelly-Moore in collecting and analyzing samples from the buildings in preparation for the lease or sale of the property. As part of the closure process, two wipe samples were collected and analyzed for PCBs near what was initially thought to have been hydraulic compressors in Building 8 (Figure 2). In one of the two wipe samples, PCBs were detected at concentrations greater than the EPA-established PCB cleanup level of 10  $\mu$ g/100 cm<sup>2</sup> for indoor nonporous



surfaces (40 CFR 761.61 [4] [ii]). The source of the PCBs detected in this wipe sample is unknown. Analysis of additional samples of concrete flooring and sediment (accumulated material adhering to the floor) collected near one of the wipe sample locations indicated PCBs at concentrations greater than 25 mg/kg but less than 50 mg/kg.

In July 2009, AMEC prepared a closure and sampling plan (AMEC, 2009a) in accordance with the regulations for PCBs (40 CFR 261); an addendum to the plan was produced in August 2009 to address additional sampling included in the investigation (AMEC, 2009b).



#### 3.0 PRESAMPLING CLEANING OF MANUFACTURING AREA

Before sampling, the buildings at the facility were cleaned. Between August 12 and 21, 2009, AMEC oversaw pressure washing of the floors in Buildings 1, 2, 3, 4, 5, 5A, 6 (ground and second floors), 7, 8 (ground and second floors), and 9. Clearcreek Contractors, Inc. (Clearcreek), in Everett, Washington, was subcontracted to operate the cleaning equipment, and AMEC personnel directed the cleaning. Cleaning included sweeping or scraping of floors, removal of steel plate flooring (in ground floor Building 8), hot water pressure washing of floors and/or mopping of floors, removal of sludge and sediment from floor drains, containerization of all wash materials and personal protective equipment (PPE), and characterization and disposal of the wastes produced.

To prevent water from running off the floors into utility trenches, temporary impoundments were constructed of expanding foam and polyvinyl chloride (PVC) pipe. The impounded wash water was vacuumed up as cleaning progressed, along with any debris loosened during cleaning. Because of the steel plates and wood flooring on the second floor of Building 8, the floor was cleaned by hand washing and mopping only.



#### 4.0 PCB SAMPLING AND CLEANUP APPROACH AND METHODS

This section describes the phases of investigation and cleanup completed to date. Detected PCB analytical results for the composite samples were compared with screening criteria presented in data tables showing the analytical results. The methods used to calculate the screening criteria are based on EPA guidance (EPA, 1985), as described in the approved Work Plan (AMEC, 2009a,b). If analytical results for a given composite sample exceeded the high-occupancy screening criterion for that composite based on the number ("x") of primary samples that constitute that composite, then at least one of the subsamples that contributed to the composite must exceed the screening criterion. In such cases, other actions may need to be taken. Such actions may include one or more of the following: analysis of relevant primary samples, cleaning or scarifying the concrete floor, or encapsulation of the inference area represented by the composite result.

Analytical results for the primary samples were compared to the bulk PCB remediation waste cleanup standard for low-occupancy (25 mg/kg) and high-occupancy (1 mg/kg) areas in accordance with 40 CFR 761.61 (Tables 2, 3, and 5). Analytical results for the composite wipe samples were compared to the surface PCB cleanup standard of 10  $\mu$ g/100 cm<sup>2</sup> for nonporous surfaces in high-occupancy areas (40 CFR 761.61).

#### 4.1 PHASE I — INITIAL FLOOR SAMPLING

The first phase of sampling was conducted between August 26 and August 31, 2009. AMEC collected samples in accordance with the PCB Closure and Characterization Plan (AMEC, 2009a) at the locations in Buildings 6, 7, and 8 shown on Figures 3, 4, 5, and 6. Both porous and nonporous surfaces were sampled during this phase of the investigation. AMEC collected 211 concrete samples from Buildings 6, 7, and 8 and, one wood sample and two wipe samples from the second floor of Building 8.

The sampling design was based on a 3-meter grid. The grid spacing was based on the requirements of 40 CFR 761.265, 761.283, and 761.286. Samples were collected at the grid nodes, and two samples were collected from each location. One individual (primary) sample from each location was archived and held, pending future analysis. The second sample from each location was added to a composite sample created from six to nine individual samples as specified in 40 CFR 261.289. The composite grids, showing the primary samples that constitute the composite samples, are shown on Figures 3 through 6. The majority of samples were collected from porous surfaces; in accordance with 40 CFR 761.61(4)(ii), wipe samples were collected where nonporous surfaces were encountered.



#### 4.1.1 Porous Surfaces

Between August 26 and 31, 2009, AMEC collected over 200 samples of concrete and wood at the locations within Buildings 6, 7, and 8 shown on Figures 3 through 6. Analytical results for these samples are summarized in Table 1 for composite samples and in Table 2 for primary samples.

Concrete or wood samples were collected for analytical testing at each location where the respective porous surface was encountered. Concrete samples were collected by AMEC, in accordance with EPA's Standard Operating Procedure for Sampling Concrete in the Field (EPA, 1997), using an electrically driven rotohammer with a 1-inch-diameter steel carbide drill bit. A 2-inch-deep hole was drilled into the cement slab at each location. A clean stainless steel spoon and knife were used to collect the pulverized concrete from the sample location. The pulverized concrete was placed into one 4-ounce glass sample jar for the primary sample and one 8-ounce glass sample jar for the composite sample. The primary sample (4-ounce jar) was labeled, put into a plastic bag, and placed in an iced-filled cooler. The composite sample (8-ounce jar) was filled by adding an aliquot of sample from each of the six to eight primary samples for its representative inference area. Composite samples were identified with the building number and "COMP" in the sample name, as shown in Table 1. Wood samples were collected using the same methods as the concrete sampling, except for the depth of collection. Because of the depth constraints of the wood, the wood samples were collected from a depth of 1 inch.

All samples were collected in laboratory-provided glass jars, labeled, and stored in an icecooled chest for transport to OnSite Environmental, Inc., in Redmond, Washington (OnSite). The primary and composite samples were delivered to the laboratory under AMEC chain-ofcustody procedures.

The composite samples were analyzed for PCBs using EPA Method 8082. Selected primary samples were analyzed based on the initial laboratory results from the composite samples. The analytical results for samples from porous surfaces collected during the first phase of sampling are summarized in Tables 1 and 2. The data validation memorandum is presented in Appendix A, and the complete laboratory analytical report is presented in Appendix B.

#### 4.1.2 Nonporous Surfaces

Between August 26 and 31, 2009, AMEC collected wipe samples at 11 locations, comprising two composite wipe samples at the locations in Building 8 shown on Figure 6. Wipe samples were collected for analytical testing at each location where a nonporous surface was encountered, precluding the collection of a bulk sample.



Samples were collected using laboratory-supplied hexane to moisten new, individually packaged gauze pads. A 10-centimeter by 10-centimeter standard template area was used to collect the wipe sample. In accordance with EPA recommendations (Smith, 1991), samples were collected by wiping the moistened gauze in three up-strokes and three down-strokes, followed by three side-strokes in each direction. The gauze then was placed into a laboratory-supplied, 4-ounce glass jar and stored in a cooler pending transport to the analytical laboratory. Primary samples were collected at each location shown on Figure 6.

At least 1.0 foot away from each location, an additional wipe sample was collected in an 8-ounce glass jar. The second sample from each location was added to the composite sample for its representative inference area. Composite samples were identified with the building number and "COMP" in the sample name.

Samples were collected in laboratory-provided glass jars, labeled, and stored in an ice-cooled chest for transport to OnSite in Redmond, Washington. The primary and composite samples were delivered to the laboratory under AMEC chain-of-custody procedures. The composite samples were analyzed for PCBs using EPA Method 8082. The analytical results for the composite wipe samples are summarized in Table 1. The laboratory analytical report and data validation memorandum are provided in Appendix B.

#### 4.2 PHASE II — WALL SAMPLING

Based on initial results indicating the presence of PCBs at concentrations greater than the screening criteria in several areas of the facility, Kelly-Moore decided it was prudent to pursue additional sampling of the manufacturing areas to sample wall areas with visible paint spatter or discoloration.

On September 17, 2009, AMEC collected 23 additional samples at the locations in Buildings 6, 7, and 8 shown on Figures 3, 4, and 5. PCB samples were collected from the concrete and wood walls and steel support pillars in these three buildings. Both porous and nonporous surfaces were sampled during the investigation. AMEC collected 14 bulk concrete samples, 6 bulk wood samples, and 3 wipe samples from pillars within Buildings 6, 7, and 8. Samples were collected according to the same procedures described in Sections 4.1; all samples were analyzed as discrete samples; no composite samples were made. The analytical results for these samples are summarized in Table 3. The data validation memorandum and laboratory analytical report are provided in Appendix A and Appendix B, respectively.

#### 4.3 PHASE III — SCARIFICATION

Phase I sample results indicated that four composite samples in Buildings 6 and 7 had total PCB concentrations exceeding the high-occupancy screening criterion (Table 1). Based on



those results, the primary samples associated with those four composite samples were analyzed (Table 2). Based on the results of the primary samples, four areas (surrounding six primary samples) were identified for cleanup. AMEC directed Clearcreek to scarify the concrete floors in Building 6 and 7 in the areas surrounding sample locations KM09-6-19, KM09-6-23, KM09-6-59, KM09-6-60, KM09-6-62, and KM09-7-24. Between October 20 and 27, 2009, AMEC oversaw scarification of the floors in these areas within Buildings 6 (ground and second floors) and 7. For each separate cleanup site in the facility, the area of inference is defined as specified in TSCA, 40 CFR 761.283 (d). Under TSCA, Phase I analytical results apply to both the individual sample location as well as to an "area of inference." The area of inference extends outward in four directions from the individual sample location for a distance of one-half the grid interval to four imaginary lines running parallel to the grid axes. Figures 3 and 4 show the area of the concrete floor scarified.

Clearcreek was subcontracted to operate the grinding and vacuuming equipment, and AMEC personnel directed and documented the scarification. The concrete floors were scarified a depth of 0.25 to 0.5 inch, and the material removed was contained in 55-gallon drums provided by Clearcreek. The grinding equipment featured a vacuum with an inline High Efficiency Particulate Air (HEPA) filter attached to a separate container. All concrete dust produced was contained and containerized along with PPE for characterization and disposal of the wastes produced.

#### 4.4 PHASE IV — ADDITIONAL FLOOR SAMPLING

Following scarification of the concrete floor in the locations shown in Figures 3 and 4, additional PCB sampling was completed in Buildings 6 and 7 within the four separate cleanup sites in the facility to assess the effectiveness of cleanup. On October 27 and October 30, 2009, AMEC collected 30 concrete samples at locations surrounding the scarified areas in Buildings 6 and 7, as shown on Figures 7 through 9. Porous surfaces were sampled during this phase of the investigation.

The sampling design was based on a 1.5-meter grid. The grid spacing was based on the requirements of 40 CFR 761.265, 761.280, 761.283 and 761.286 for post-cleanup sampling. Samples were collected at the grid nodes, and two samples were collected from each location. One individual (primary) sample was archived and held pending analysis. The second sample was added to a composite sample created from four to six individual samples as specified in 40 CFR 761.289. Composite and primary sample locations are shown on Figure 7, 8, and 9. Samples were collected, stored, and analyzed according to the same procedures described in Section 4.1.1. The analytical results for the Phase IV investigation are summarized in Table 4 for the composite samples and in Table 5 for the individual primary samples. The data



validation memorandum and laboratory analytical reports are provided in Appendix A and Appendix B, respectively.



#### 5.0 RESULTS

This section discusses the results of the sampling conducted during this investigation and cleanup.

#### 5.1 PHASE I

For screening purposes, the sampling results for porous surfaces were compared to PCB cleanup levels established by EPA for high-occupancy areas and low-occupancy areas (40 CFR 761.61 [4] [i] [A] and [B]), as shown in Tables 1 and 2. If results for composite samples from porous surfaces exceeded the high-occupancy screening criteria (Table 1) established and presented in the PCB Closure and Characterization Plan (AMEC, 2009a), analysis of the primary samples was considered to refine the known extent of PCB contamination.

For screening purposes, the sampling results for nonporous surface were compared to EPA PCB cleanup levels for indoor surfaces. In accordance with 40 CFR Part 761.61(4)(ii), wipe samples were collected from a nonporous steel surface; therefore, the applicable cleanup level is  $10 \ \mu g/100 \ cm^2$ . If results for the composite sample from nonporous surfaces exceeded the cleanup level (Table 1) established and presented in the PCB Closure and Characterization Plan (AMEC, 2009a), analysis of primary samples was considered to refine the known extent of PCB contamination.

The results of the Phase I sampling and analysis are summarized in Table 1 for composite samples and in Table 2 for the individual primary samples. Locations where results exceeded the high-occupancy screening criterion are presented in Figures 3, 4, 5, and 6. The laboratory results and chain-of-custody forms are included in Appendix B. An assessment of these results as they relate to the screening criteria is presented below.

#### 5.1.1 Building 6 — Ground Floor

Two of the four composite samples collected on the ground floor in Building 6 had PCB detections that exceeded the high-occupancy criteria (Table 1). Nine-sample composite KM09-6H-COMP had a total PCB concentration of 1.03 mg/kg, and six-sample composite KM09-6I-COMP had a concentration of 1.08 mg/kg. Based on these results, the discrete primary samples that made up these two composite samples (KM09-6-52 through KM09-6-66) were analyzed. Three of the 15 primary samples analyzed showed total PCB concentrations greater than 1 mg/kg: locations KM09-6-59 (1.5 mg/kg), KM09-6-60 (4.9 mg/kg), and KM09-6-62 (5.4 mg/kg) (Table 2).



#### 5.1.2 Building 6 — Second Floor

One of the five composite samples collected on the second floor in Building 6 had a PCB detection that exceeded the high-occupancy criterion. Nine-sample composite KM09-6C-COMP had a total PCB concentration of 2.4 mg/kg. Based on these results, the discrete primary samples that made up this composite sample (KM09-6-16 through KM09-6-24) were analyzed. Two of the nine primary samples analyzed showed a total PCB concentration greater than 1 mg/kg: locations KM09-6-19 (1.93 mg/kg) and KM09-6-23 (18.5 mg/kg).

#### 5.1.3 Building 7

One of the five composite samples collected in Building 7 had a PCB detection that exceeded the high-occupancy criterion. Nine-sample composite KM09-7C-COMP had a total PCB concentration of 2.6 mg/kg. Based on these results, the discrete primary samples that made up this composite sample (KM09-7-19 through KM09-7-27) were analyzed. One of the nine primary samples analyzed showed a total PCB concentration greater than 1 mg/kg: location KM09-7-24 (25.8 mg/kg).

#### 5.1.4 Building 8 — Ground Floor

Five of the eight composite samples collected on the ground floor in Building 8 had PCB detections that exceeded the high-occupancy screening criterion. Six-sample composite KM09-8E-COMP had a total PCB concentration of 4.7 mg/kg; six-sample composite KM09-8F-COMP had a concentration of 2.01 mg/kg; eight-sample composite KM09-8G-COMP had a concentration of 7.5 mg/kg; eight-sample composite KM09-8H-COMP had a concentration of 4.5 mg/kg; and eight-sample composite KM09-8I-COMP had a concentration of 0.98 mg/kg. Based on the widespread detections greater than the screening criteria, the primary discrete samples for these composite samples were not analyzed. Additionally, results for discrete samples collected from the base of two former floor scale pits (KM09-8-78 and KM09-8-79) showed total PCB concentrations of 44 and 100 mg/kg, respectively, well above the high-occupancy criterion.

#### 5.1.5 Building 8 — Second Floor

None of the three composite samples collected on the second floor in Building 8 had PCB detections that exceeded the high-occupancy criterion.

#### 5.2 PHASE II

Phase II sampling consisted of wall sampling. The locations of samples are shown in Figures 3 through 5, and results of this sampling are summarized in Table 3. PCBs were not detected above the laboratory reporting limit in any of the wall samples collected in Buildings 6



and 7. Three of the six wall samples collected in Building 8 had total PCB concentrations greater than 1 mg/kg, ranging from 1.7 mg/kg to 4.9 mg/kg.

#### 5.3 PHASE III AND IV

This section describes the actions taken and the results of work conducted based on the outcome of Phase I and II.

#### 5.3.1 Building 6 — Ground Floor

Based on the results of the Phase I sampling described in Section 5.1.1, cleanup was performed in the inference areas for primary (discrete) samples KM09-6-59, KM09-6-60, and KM09-6-62 (Figure 3). Cleanup consisted of scarification, as described in Section 4.3.

After scarification, confirmation sampling was performed as described in Section 4.4. The area of scarification and post-scarification sample locations are shown on Figure 7. Two composite samples collected on the ground floor in Building 6 had PCB detections that exceeded the high-occupancy criterion (Table 4). Six-sample composite KM09-6J-COMP had a total PCB concentration of 2.18 mg/kg, and six-sample composite KM09-6K-COMP had a concentration of 1.09 mg/kg. Based on these results, the discrete primary samples that made up these two composite samples (KM09-6-81 through KM09-6-92) were analyzed. Two of the 12 primary samples analyzed showed total PCB concentrations greater than 1 mg/kg: locations KM09-6-84 (4.2 mg/kg) and KM09-6-90 (2.8 mg/kg) (Table 5).

#### 5.3.2 Building 6 — Second Floor

Based on the results of the Phase I sampling described in Section 5.1.2, cleanup was performed in the inference areas for primary (discrete) samples KM09-6-19 and KM09-6-23 (Figure 4). Cleanup consisted of scarification, as described in Section 4.3.

After scarification, confirmation sampling was performed as described in Section 4.4. The area of scarification and post-scarification sample locations are shown on Figure 8. PCBs were detected in the two composite samples collected on the second floor in Building 6 at a concentration that exceeded the high-occupancy criterion (Table 4). Four-sample composite KM09-6L-COMP had a total PCB concentration of 0.5 mg/kg, and four-sample composite KM09-6M-COMP had a total PCB concentration of 3.26 mg/kg. Based on these results, the discrete primary samples that made up these composite samples (KM09-6-73 through KM09-6-80) were analyzed. One of the four primary samples analyzed representing composite sample KM09-6M-COMP showed a total PCB concentration greater than 1 mg/kg; location KM09-6-79 (1.89 mg/kg) (Table 5).



#### 5.3.3 Building 7

Based on the results of the Phase I sampling described in Section 5.1.3, cleanup was performed in the inference areas for primary (discrete) sample KM09-7-24 (Figure 3). Cleanup consisted of scarification, as described in Section 4.3.

After scarification, confirmation sampling was performed as described in Section 4.4. The area of scarification and post-scarification sample locations are shown on Figure 9. No PCBs were detected above the laboratory reporting limit in the composite sample (KM09-7F-COMP) collected in Building 7 (Table 4).

#### 5.3.4 Building 8

Based on the results of Phase I and II sampling in Building 8, described in Sections 5.1.4 and 5.2, and on the planned future use of the property, Kelly Moore is evaluating potential demolition of Building 8 to addressing PCBs Building 8. No additional scarification or sampling was conducted in Building 8 as part of Phase III and IV of this project.

#### 5.4 QUALITY ASSURANCE/QUALITY CONTROL

Quality assurance/quality control (QA/QC) procedures included the analysis of six equipment blanks, two blind field duplicate samples collected from KM09-8D-COMP (labeled KM09-8-DUP) and KM09-6-82 (labeled KM09-6-DUP), and laboratory quality control samples. Data verification was performed in accordance with the EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (EPA, 2008). The summary data quality review is presented in Appendix A.

Field QA/QC sample results were all nondetections; results are included in Table 6. All other QA data met their respective acceptance criteria. Overall, the results of the QA assessment indicate that the results are valid and usable.



#### 6.0 WASTE MANAGEMENT

Approximately 1,000 gallons of wash water generated during cleaning activities was contained in a transfer tank and then temporarily stored in a 4,000-gallon polyethylene tank on site. pending the analytical results. Solids from scarification, sweeping, and scraping were placed in 55-gallon drums and stored on site, pending the analytical results. Steel plates removed from the floors of Building 8 were wrapped in Visqueen prior to disposal. All used Visqueen, PPE, and other materials generated during cleaning and sampling were also placed in 55-gallon drums, pending the analytical results. AMEC coordinated with Kelly-Moore's environmental waste management firm, Ingenium Group, LLC, of San Jose, California, to assist in sampling for characterization of the wastes produced and disposal of the wastes generated. AMEC collected samples of the individual drums and containers and provided analytical results to Kelly-Moore and Ingenium for waste profiling purposes. Ingenium handled the waste disposal. Available waste manifests and certificates of disposal for wastes generated during this project are included in Appendix C. Additional documentation is expected to be received in February. AMEC will provide to EPA the remaining waste manifests and certificates of disposal for all PCB waste produced during this investigation once they are received from Ingenium.

Consistent with 40 CFR 761.61(a), to date, 6200 kilograms and 5300 liters of PCB waste have been disposed of and  $9.0 \times 10^{-3}$  acres have been remediated.



#### 7.0 CLOSURE COSTS RECORDS RETENTION

In accordance with 40 CFR 761.61(a)(6)(i)-((ii) and 761.61(a)(9) and 761.1258(c)(5)(i)-(ix) AMEC estimated the cost of cleanup to date based on man-hours and dollars. To date, approximately \$107,000 has been spent to investigate, clean, and move towards PCB closure at the facility. Approximately 1070 man-hours have been used toward the cleanup of PCBs on the site. As work is still underway, this total will increase, and the adjusted total will be included in future reports.

In accordance with 40 CFR 761.125(e)(5)(i)-(iv) and 40 CFR 761.61(a)(3)-(a)(5) AMEC is following records retention guidelines for the cleanup of PCBs on the site.



#### 8.0 SUMMARY AND RECOMMENDATIONS

This report documents four phases of investigation and remediation of PCBs in Kelly-Moore's former manufacturing facility in Seattle. In Phase I, floor samples were collected for PCB analysis from August 26 to 31, 2009; a total of 214 samples were collected from Buildings 6, 7, and 8. Porous and nonporous composite samples were analyzed initially to screen composite sample areas with total PCB concentrations in excess of the screening criteria. On the basis of the floor sample results, Phase II consisted of collection of additional samples from walls and support pillars on September 17, 2009. Phase III consisted of cleanup via scarification from October 20 to 27, 2009. Four separate areas in Buildings 6 and 7 where PCB concentrations exceeded the high-occupancy screening criteria were scarified. During Phase IV, floor samples were collected on October 27 and 30, 2009, to assess cleanup of the post scarified concrete floors in Buildings 6 and 7.

#### 8.1 SUMMARY OF PHASE I — INITIAL FLOOR SAMPLING

The sampling results for porous and nonporous floors are summarized below.

- Concentrations of PCBs from 16 composite samples were not detected at concentrations greater than the laboratory reporting limit or the high-occupancy screening criteria.
- The PCB concentrations from four composite samples from locations in Buildings 6 and 7 exceeded the high-occupancy screening criteria. As a result, the primary samples that comprise these four composite samples were analyzed.
- Six of the primary samples (in four areas) from Buildings 6 and 7 had total PCB concentrations greater than the high-occupancy criterion of 1 mg/kg (40 CFR 761.61). These results indicated that portions of the concrete floor needed to be further cleaned, scarified, or removed and the remaining surface subsequently resampled for PCBs (Phases III and IV).
- Samples from Building 8 indicated multiple areas where total PCB concentrations exceeded 1 mg/kg; therefore, Kelly-Moore is evaluating potential demolition of this building. Subsequent PCB confirmation sampling will be required after demolition to evaluate residual concentrations. Kelly-Moore will apprise EPA once a decision regarding demolition has been made. In the interim, Building 8 remains marked and restricted as a PCB-containing area, consistent with the restrictions and marking described in the July 2009 work plan (AMEC, 2009a). Photographic documentation of the closure of Building 8 is included in Appendix D.



#### 8.2 SUMMARY OF PHASE II — ADDITIONAL WALL SAMPLING

The sampling results for porous and nonporous walls are summarized below.

- PCBs were not detected at concentrations above the laboratory reporting limit in 19 primary samples.
- Concentrations of PCBs from three primary samples (all in Building 8) exceeded the high-occupancy criterion (1 mg/kg), and the concentration from one primary sample was above the laboratory reporting limit but less than the high-occupancy screening criterion. Building 8, which may be demolished by Kelly-Moore, contained the most detected concentrations of PCBs, and the wall samples confirm this.

#### 8.3 SUMMARY OF PHASE III AND IV — SCARIFICATION AND ADDITIONAL FLOOR SAMPLING

Scarification and subsequent sampling in accordance with TSCA was completed for the areas surrounding sample locations KM09-6-19, KM09-6-23, KM09-6-59, KM09-6-60, KM09-6-62, and KM09-7-24 in Buildings 6 and 7, where the results from the primary samples exceeded 1 mg/kg.

The post-scarification sampling results for porous floors are summarized below.

- The concentration of PCBs in one post-scarification composite sample was non-detect; PCB concentrations in four post-scarification composite samples (KM09-6J-COMP, KM09-6K-COMP, KM09-6L-COMP and KM09-6M-COMP) were above the high-occupancy screening criterion. As a result, the primary samples for the four composite samples with elevated PCB concentrations were also analyzed.
- Concentrations of PCBs in 18 of 21 primary post-scarification samples were below the high occupancy screening criterion (1 mg/kg)
- Concentrations of PCBs from three post-scarification primary samples exceeded the high-occupancy criterion (1 mg/kg). Additional cleanup and subsequent sampling in accordance with TSCA is planned for the areas surrounding sample locations KM09-6-79, KM09-6-84, and KM09-7-90, where the results from the primary samples exceeded 1 mg/kg. AMEC will produce an addendum to this report presenting the results of the cleanup and sampling for those locations in early 2010.



#### 9.0 REFERENCES

- AMEC, 2009a, PCB Closure and Characterization Plan, Former Kelly-Moore Manufacturing Facilities, 5410 Airport Way South, Seattle, Washington, July.
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- Smith, J.H., 1991, Wipe Sampling and Double Wash / Rinse Cleanup as Recommended by the Environmental Protection Agency Spill Cleanup Policy: U.S. EPA, Office of Prevention, Pesticides and Toxic Substances, April 18.
- EPA (U.S. Environmental Protection Agency), 1985, Verification of PCB Spill Cleanup by Sampling and Analysis: EPA-560/5-026, August.
- EPA, 1997, Draft-Standard Operating Procedure for Sampling Concrete in the Field, Region 1, Office of Environmental Measurement and Evaluation, December 30.
- EPA, 2008, Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-08-01, June.
- SEACOR (Science and Engineering Analysis Corporation), 1994, Phase I Environmental Site Assessment, Preservative Paints, 5400-5502 Airport Way South, Seattle, Washington, August 12.
- SEACOR (SEACOR International Incorporated), 1997, Phase I Environmental Site Assessment Update, Preservative Paints Manufacturing Facility, 5400 Airport Way South, Seattle, Washington, November 21.



#### PHASE I COMPOSITE BULK AND WIPE FLOOR SAMPLING RESULTS<sup>1,2</sup> Former Kelly-Moore Manufacturing Facility Seattle, Washington

Sample ID	Primary Samples Included and Analyzed Individually	Description of Sample Location	Number of Locations in Composite Sample	High Occupancy Screening Criterion <sup>3</sup>	Low Occupancy Screening Criterion <sup>4</sup>	Sample Date	Units	Total PCBs	Aroclor 1016	Aroclor 121	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
Bulk Samples															
KM09-6A-COMP	NA <sup>5</sup>		6	0.24 mg/kg	5.9 mg/kg	8/26/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-6B-COMP	NA <sup>5</sup>	Duilding C. accord floor	9	0.16 mg/kg	3.93 mg/kg	8/26/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-6C-COMP	KM09-6-16 through KM09-6-24	Building 6, second floor, pulverized concrete	9	0.16 mg/kg	3.93 mg/kg	8/26/2009	mg/kg	2.4	<0.20	<0.20	<0.20	0.23	<0.20	1.2	0.97
KM09-6D-COMP	NA <sup>5</sup>		6	0.24 mg/kg	5.9 mg/kg	8/26/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-6E-COMP	NA <sup>5</sup>		6	0.24 mg/kg	5.9 mg/kg	8/26/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-6F-COMP	NA <sup>5</sup>		6	0.24 mg/kg	5.9 mg/kg	8/27/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-6G-COMP	NA <sup>5</sup>	Building 6, ground floor,	9	0.16 mg/kg	3.93 mg/kg	8/27/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-6H-COMP	KM09-6-52 through KM09-6-60	pulverized concrete	9	0.16 mg/kg	3.93 mg/kg	8/27/2009	mg/kg	1.03	<0.20	<0.20	<0.20	<0.20	<0.20	0.33	0.70
KM09-6I-COMP	KM09-6-61 through KM09-6-66		6	0.24 mg/kg	5.9 mg/kg	8/27/2009	mg/kg	1.08	<0.20	<0.20	<0.20	<0.20	<0.20	0.36	0.72
KM09-7A-COMP	NA <sup>5</sup>		9	0.16 mg/kg	3.93 mg/kg	8/27/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-7B-COMP	NA <sup>5</sup>		9	0.16 mg/kg	3.93 mg/kg	8/27/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-7C-COMP	KM09-7-19 through KM09-7-27	Building 7, ground floor, pulverized concrete	9	0.16 mg/kg	3.93 mg/kg	8/27/2009	mg/kg	2.6	<0.20	<0.20	<0.20	<0.20	<0.20	1.5	1.1
KM09-7D-COMP	NA <sup>5</sup>	]	8	0.18 mg/kg	4.42 mg/kg	8/28/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-7E-COMP	NA <sup>5</sup>		9	0.16 mg/kg	3.93 mg/kg	8/28/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-8C-COMP	NA <sup>5</sup>	Building 8, second floor, wood shavings	5	0.28 mg/kg	7.08 mg/kg	8/28/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-8D-COMP/ KM09-8-DUP	NA <sup>5</sup>		9	0.16 mg/kg	3.93 mg/kg	8/28/2009	mg/kg	<0.20/<0.20	<0.20/<0.20	<0.20/<0.20	<0.20/<0.20	<0.20/<0.20	<0.20/<0.20	<0.20/<0.20	<0.20/<0.20
KM09-8E-COMP	NA <sup>6</sup>		6	0.24 mg/kg	5.9 mg/kg	8/31/2009	mg/kg	4.7	<0.20	<0.20	<0.20	<0.20	<0.20	2.4	2.3
KM09-8F-COMP	NA <sup>6</sup>		6	0.24 mg/kg	5.9 mg/kg	8/31/2009	mg/kg	2.01	<0.20	<0.20	<0.20	<0.20	<0.20	1.1	0.91
KM09-8G-COMP	NA <sup>6</sup>	Building 8, ground floor,	8	0.18 mg/kg	4.42 mg/kg	8/31/2009	mg/kg	7.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	7.5
KM09-8H-COMP	NA <sup>6</sup>	pulverized concrete	8	0.18 mg/kg	4.42 mg/kg	8/31/2009	mg/kg	4.5	<0.20	<0.20	<0.20	<0.20	<0.20	2.7	1.8
KM09-8I-COMP	NA <sup>6</sup>		8	0.18 mg/kg	4.42 mg/kg	8/31/2009	mg/kg	0.98	<0.20	<0.20	<0.20	<0.20	<0.20	0.64	0.34
KM09-8J-COMP	NA <sup>6</sup>		6	0.24 mg/kg	5.9 mg/kg	8/31/2009	mg/kg	0.23	<0.20	<0.20	<0.20	<0.20	<0.20	0.23	<0.20
KM09-8K-COMP	NA <sup>5</sup>		9	0.16 mg/kg	3.93 mg/kg	8/31/2009	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050



#### PHASE I COMPOSITE BULK AND WIPE FLOOR SAMPLING RESULTS<sup>1,2</sup> Former Kelly-Moore Manufacturing Facility Seattle, Washington

Sample ID Wipe Samples	Primary Samples Included and Analyzed Individually	Description of Sample Location	Number of Locations in Composite Sample	High Occupancy Screening Criterion <sup>3</sup>	Low Occupancy Screening Criterion <sup>4</sup>	Sample Date	Units	Total PCBs	Aroclor 1016	Aroclor 121	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
KM09-8A-COMP	NA <sup>5</sup>	Building 8, second floor, steel floor wipe sample	6	10 µg/10	00 cm <sup>2, 7</sup>	8/28/2009	µg/100 cm <sup>2</sup>	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
KM09-8B-COMP	NA <sup>5</sup>	Building 8, second floor, steel floor wipe sample	6	10 µg/10	00 cm <sup>2, 7</sup>	8/28/2009	µg/100 cm <sup>2</sup>	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

Notes

1. All samples were collected on August 26-31, 2009, and analyzed for PCBs by EPA Method 8082 at OnSite Environmental Inc., in Redmond, Washington.

2. Detected concentrations greater than high-occupancy screening criterion are shown in **bold**.

3. High-occupancy cleanup levels were established as screening criteria for composite samples. The screening criteria were calculated using the method described by the EPA (1985). High-occupancy screening criteria were calculated by (0.8) (1 mg/kg) + (2.576) (0.3) (0.8) (1.0) = 1.42 mg/kg/number of subsamples in composite.

4. Low-occupancy cleanup levels were established as screening criteria for composite samples. The screening criteria were calculated using the method described by the EPA (1985). Low-occupancy screening criteria were calculated by (0.8)·(25 mg/kg) + (2.576)·(0.3)·(0.8)·(1.0) = 35.4 mg/kg/ number of subsamples in composite.

5. Primary samples were not analyzed because concentrations of total PCBs in the composite sample were less than the reporting limit shown.

6. Primary samples were not analyzed because detections of total PCBs in the composite sample at concentrations greater than the high-occupancy screening criteria were widespread and prevalent throughout Building 8. The multiple areas of PCB detections made it infeasible to locate the exceedances with more accuracy.

7. PCB cleanup levels for non-porous surfaces for high-occupancy areas are established in the Toxic Substances Control Act (40 CFR Part 761.61).

Abbreviations

< = compound not detected at or above laboratory reporting limit shown µg/100 cm<sup>2</sup> = micrograms per 100 square centimeters mg/kg = milligrams per kilogram NA = not applicable PCBs = polychlorinated biphenyls





#### PHASE I PRIMARY BULK FLOOR SAMPLING RESULTS<sup>1,2</sup>

Former Kelly-Moore Manufacturing Facility Seattle, Washington

Sample		Sample	Total	Aroclor	Aroclor	Aroclor	Aroclor	Aroclor	Aroclor	Aroclor		
ID	<b>Composite Grid</b>	Date	PCBs	1016	121	1232	1242	1248	1254	1260		
KM09-6-1		8/26/09										
KM09-6-2		8/26/09										
KM09-6-3		8/26/09				Not A	noluzod					
KM09-6-4	KM09-6A-COMP	8/26/09				NOT A	nalyzed					
KM09-6-5		8/26/09										
KM09-6-6		8/26/09										
KM09-6-7		8/26/09										
KM09-6-8		8/26/09										
KM09-6-9		8/26/09										
KM09-6-10		8/26/09										
KM09-6-11	KM09-6B-COMP	8/26/09				Not A	nalyzed					
KM09-6-12		8/26/09										
KM09-6-13		8/26/09										
KM09-6-14		8/26/09										
KM09-6-15		8/26/09	26/09 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50 <0.50									
KM09-6-16		8/26/09										
KM09-6-17		8/26/09	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
KM09-6-18		8/26/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
KM09-6-19		8/26/09	1.93	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	0.73		
KM09-6-20	KM09-6C-COMP	8/26/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
KM09-6-21		8/26/09	0.66	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.66		
KM09-6-22		8/26/09	0.61	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.61		
KM09-6-23		8/26/09	18.5	<0.50	<0.50	<0.50	<0.50	<0.50	13	5.5		
KM09-6-24		8/26/09	0.91	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
KM09-6-25		8/26/09										
KM09-6-26		8/26/09										
KM09-6-27	KM09-6D-COMP	8/26/09				Not A	nalyzed					
KM09-6-28		8/26/09				1007	naryzea					
KM09-6-29		8/26/09	/09									
KM09-6-30		8/26/09										
KM09-6-31		8/26/09										
KM09-6-32		8/26/09										
KM09-6-33	KM09-6E-COMP	8/26/09				Not 4	nalyzed					
KM09-6-34		8/26/09				NOLA	anaryzeu					
KM09-6-35		8/26/09	26/09									
KM09-6-36		8/26/09										



#### PHASE I PRIMARY BULK FLOOR SAMPLING RESULTS<sup>1,2</sup>

Former Kelly-Moore Manufacturing Facility Seattle, Washington

Sample		Sample			Aroclor			Aroclor	Aroclor	Aroclor	
ID	<b>Composite Grid</b>	Date	PCBs	1016	121	1232	1242	1248	1254	1260	
KM09-6-37		8/27/09									
KM09-6-38		8/27/09									
KM09-6-39		8/27/09				NI-4 A					
KM09-6-40	KM09-6F-COMP	8/27/09				NOT A	nalyzed				
KM09-6-41		8/27/09									
KM09-6-42		8/27/09									
KM09-6-43		8/27/09									
KM09-6-44		8/27/09									
KM09-6-45		8/27/09									
KM09-6-46		8/27/09									
KM09-6-47	KM09-6G-COMP	8/27/09				Not A	nalyzed				
KM09-6-48		8/27/09	]				-				
KM09-6-49		8/27/09									
KM09-6-50		8/27/09									
KM09-6-51		8/27/09									
KM09-6-52		8/27/09	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
KM09-6-53		8/27/09	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
KM09-6-54		8/27/09	0.60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
KM09-6-55		8/27/09	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
KM09-6-56	KM09-6H-COMP	8/27/09	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
KM09-6-57		8/27/09	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
KM09-6-58		8/27/09	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
KM09-6-59		8/27/09	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.50	
KM09-6-60		8/27/09	4.9	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	3.20	
KM09-6-61		8/27/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
KM09-6-62		8/27/09	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	3.50	
KM09-6-63	KM09-6I-COMP	8/27/09	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
KM09-6-64		8/27/09	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
KM09-6-65		8/27/09	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
KM09-6-66		8/27/09	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
KM09-7-1		8/27/09									
KM09-7-2		8/27/09									
KM09-7-3		8/27/09									
KM09-7-4		8/27/09									
KM09-7-5	KM09-7A-COMP	8/27/09	]			Not A	nalyzed				
KM09-7-6		8/27/09	]								
KM09-7-7		8/27/09									
KM09-7-8		8/27/09	]								
KM09-7-9		8/27/09									



#### PHASE I PRIMARY BULK FLOOR SAMPLING RESULTS<sup>1,2</sup>

Former Kelly-Moore Manufacturing Facility Seattle, Washington

Sample		Sample				Aroclor		Aroclor	Aroclor	Aroclor
ID	<b>Composite Grid</b>	Date	PCBs	1016	121	1232	1242	1248	1254	1260
KM09-7-10		8/27/09								
KM09-7-11		8/27/09								
KM09-7-12		8/27/09								
KM09-7-13		8/27/09								
KM09-7-14	KM09-7B-COMP	8/27/09				Not A	nalyzed			
KM09-7-15		8/27/09								
KM09-7-16		8/27/09								
KM09-7-17		8/27/09								
KM09-7-18		8/27/09								
KM09-7-19		8/27/09	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-7-20		8/27/09	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-7-21		8/27/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-7-22		8/27/09	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-7-23	KM09-7C-COMP	8/27/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-7-24		8/27/09	25.8	<0.50	<0.50	<0.50	<0.50	<0.50	17	8.8
KM09-7-25		8/27/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-7-26		8/27/09	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-7-27		8/27/09	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-7-28		8/28/09								
KM09-7-29		8/28/09								
KM09-7-30		8/28/09								
KM09-7-31	KM09-7D-COMP	8/28/09				Not A	nalyzed			
KM09-7-32		8/28/09				NOT /	naryzeu			
KM09-7-33		8/28/09								
KM09-7-34		8/28/09								
KM09-7-35		8/28/09								
KM09-7-36		8/28/09								
KM09-7-37		8/28/09								
KM09-7-38		8/28/09								
KM09-7-39		8/28/09	]							
KM09-7-40	KM09-7E-COMP	8/28/09				Not A	nalyzed			
KM09-7-41		8/28/09								
KM09-7-42		8/28/09								
KM09-7-43		8/28/09								
KM09-7-44		8/28/09								
KM09-8-1		8/28/09								
KM09-8-2		8/28/09								
KM09-8-3	KM09-8A-COMP	8/28/09				Not A	nalyzed			
KM09-8-4		8/28/09								
KM09-8-5		8/28/09								



#### PHASE I PRIMARY BULK FLOOR SAMPLING RESULTS<sup>1,2</sup>

Former Kelly-Moore Manufacturing Facility Seattle, Washington

Sample		Sample	Total	Aroclor								
ID	<b>Composite Grid</b>	Date	PCBs	1016	121	1232	1242	1248	1254	1260		
KM09-8-6		8/28/09										
KM09-8-7		8/28/09										
KM09-8-8		8/28/09				NI-4 A						
KM09-8-9	KM09-8B-COMP	8/28/09				NOT A	nalyzed					
KM09-8-10		8/28/09										
KM09-8-11		8/28/09										
KM09-8-12		8/28/09										
KM09-8-13		8/28/09										
KM09-8-14	KM09-8C-COMP	8/28/09				Not A	nalyzed					
KM09-8-15		8/28/09				NOL A	naiyzeû					
KM09-8-16		8/28/09										
KM09-8-17		8/28/09										
KM09-8-18		8/28/09	18/09									
KM09-8-19		8/28/09										
KM09-8-20		8/28/09										
KM09-8-21		8/28/09	Not Analyzed									
KM09-8-22	KM09-8D-COMP	8/28/09										
KM09-8-23		8/28/09										
KM09-8-24		8/28/09										
KM09-8-25		8/28/09										
KM09-8-26		8/28/09										
KM09-8-27		8/31/09										
KM09-8-28		8/31/09										
KM09-8-29	KM09-8E-COMP	8/31/09				Not A	nalyzed					
KM09-8-30		8/31/09				NOL A	naryzeu					
KM09-8-31		8/31/09										
KM09-8-32		8/31/09	/31/09									
KM09-8-33		8/31/09										
KM09-8-34		8/31/09										
KM09-8-35	KM09-8F-COMP	8/31/09	1/09 Not Analyzed									
KM09-8-36		8/31/09				NOL A	naryzeu					
KM09-8-37		8/31/09										
KM09-8-38		8/31/09										



#### PHASE I PRIMARY BULK FLOOR SAMPLING RESULTS<sup>1,2</sup>

Former Kelly-Moore Manufacturing Facility Seattle, Washington

Sample		Sample						Aroclor	Aroclor	Aroclor		
ID	<b>Composite Grid</b>	Date	PCBs	1016	121	1232	1242	1248	1254	1260		
KM09-8-39		8/31/09										
KM09-8-40		8/31/09										
KM09-8-41		8/31/09										
KM09-8-42		8/31/09										
KM09-8-43	KM09-8G-COMP	8/31/09				NOT A	nalyzed					
KM09-8-44		8/31/09										
KM09-8-45		8/31/09										
KM09-8-46		8/31/09										
KM09-8-47		8/31/09										
KM09-8-48		8/31/09										
KM09-8-49		8/31/09										
KM09-8-50	KM09-8H-COMP	8/31/09				Not A	nalyzed					
KM09-8-51		8/31/09				NOLA	naiyzeu					
KM09-8-52		8/31/09										
KM09-8-53		8/31/09										
KM09-8-54		8/31/09										
KM09-8-55		8/31/09										
KM09-8-56		8/31/09										
KM09-8-57		8/31/09										
KM09-8-58	KM09-8I-COMP	8/31/09	Not Analyzed									
KM09-8-59		8/31/09				NOLA	naryzeu					
KM09-8-60		8/31/09										
KM09-8-61		8/31/09										
KM09-8-62		8/31/09										
KM09-8-63		8/31/09										
KM09-8-64		8/31/09										
KM09-8-65	KM09-8J-COMP	8/31/09				Not A	nalyzed					
KM09-8-66		8/31/09				1017						
KM09-8-67		8/31/09										
KM09-8-68		8/31/09										
KM09-8-69		8/31/09	31/09									
KM09-8-70		8/31/09										
KM09-8-71		8/31/09										
KM09-8-72		8/31/09	]									
KM09-8-73	KM09-8K-COMP	8/31/09				Not A	nalyzed					
KM09-8-74		8/31/09										
KM09-8-75		8/31/09	]									
KM09-8-76		8/31/09										
KM09-8-77		8/31/09										



#### PHASE I PRIMARY BULK FLOOR SAMPLING RESULTS<sup>1,2</sup>

Former Kelly-Moore Manufacturing Facility Seattle, Washington

Sample ID	Composite Grid	Sample Date	Total PCBs		Aroclor 121	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
KM09-8-78	Building 8, former floor scales, subfloor, pulverized concrete	8/31/09	44	<50	<50	<50	<10	<10	16	28
KM09-8-79	Building 8, former floor scales, subfloor, pulverized concrete	8/31/09	100	<10	<10	<10	<10	<10	<10	100
High-Occupancy Scr	igh-Occupancy Screening Criterion <sup>3</sup>									
Low-Occupancy Scre	w-Occupancy Screening Criterion <sup>3</sup>									

#### Results reported in milligrams per kilogram (mg/kg)

Notes

- 1. All samples were collected on August 26-31, 2009, and analyzed for PCBs by EPA Method 8082 at OnSite Environmental Inc., in Redmond, Washington.
- 2. Concentrations greater than high-occupancy screening criterion are shown in **bold**.
- 3. For primary samples, PCB cleanup levels for low-occupancy and high-occupancy areas are established in the Toxic Substances Control Act (40 CFR Part 761.61).

**Abbreviations** 

< = compound not detected at or above laboratory reporting limit shown

CFR = Code of Federal Regulations

EPA = U.S. Environmental Protection Agency

mg/kg = milligrams per kilogram

#### PHASE II BULK AND WIPE WALL SAMPLING RESULTS<sup>1,2</sup>

Former Kelly-Moore Manufacturing Facility Seattle, Washington

		High-	Low-										
	Description of	Occupancy	Occupancy	Sample		Total	Aroclor						
Sample ID	Sample Location	Criterion <sup>3</sup>	Criterion <sup>3</sup>	Date	Units	PCBs	1016	121	1232	1242	1248	1254	1260
Bulk Samples													
KM09-6-67		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-68		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-69	Puilding 6 accord floor, well, pulverized concrete	1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-70	Building 6, second floor, wall, pulverized concrete	1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-71		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-72		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-73		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-74		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-75	Building 6, ground floor, wall, pulverized concrete	1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-76	Building 0, ground hoor, wail, purvenzed concrete	1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-77		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-78		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-7-45	Building 7, ground floor, wall, pulverized concrete	1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-7-48	Building 7, ground floor, wall, wood shavings	1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-8-80	Building 8, ground floor, wall, pulverized concrete	1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-8-81		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	4.9	<0.50	<0.50	<0.50	0.60	<0.50	4.3	<0.50
KM09-8-82		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	2.1	<0.50
KM09-8-83	Building 8, ground floor, wall, wood shavings	1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	<0.50
KM09-8-84		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	0.69	<0.50	<0.50	<0.50	<0.50	<0.50	0.69	<0.50
KM09-8-85		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Wipe Samples													
KM09-7-46	Building 7, ground floor, steel support pillar	10 µg/1	00 cm <sup>2</sup>	9/17/2009	µg/100 cm <sup>2</sup>	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
KM09-7-47	Building 7, ground floor, steel support pillar	10 µg/1	00 cm <sup>2</sup>	9/17/2009	µg/100 cm <sup>2</sup>	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
KM09-7-49	Building 7, ground floor, steel support pillar	10 µg/1	00 cm <sup>2</sup>	9/17/2009	$\mu g/100 \text{ cm}^2$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

<u>Notes</u>

1. All samples were collected on September 17-18, 2009, and analyzed for PCBs by EPA Method 8082 at OnSite Environmental Inc., in Redmond, Washington.

2. Concentrations greater than high-occupancy screening criterion are shown in **bold**.

3. For primary samples, PCB cleanup levels for bulk waste and nonporous surfaces for low-occupancy and high-occupancy areas are established in the Toxic Substances Control Act (40 CFR Part 761.61).

#### Abbreviations

< = compound not detected at or above laboratory reporting limit shown

CFR = Code of Federal Regulations

EPA = U.S. Environmental Protection Agency

 $\mu$ g/100 cm<sup>2</sup> = micrograms per 100 cubic centimeters

mg/kg = milligrams per kilogram



#### PHASE IV COMPOSITE BULK FLOOR SAMPLING RESULTS<sup>1,2</sup> Former Kelly-Moore Manufacturing Facility Seattle, Washington

Sample ID	Primary Samples Included and Analyzed Individually	Description of Sample Location	Number of Locations in Composite Sample	High Occupancy Screening Criterion <sup>3</sup>	Low Occupancy Screening Criterion <sup>4</sup>	Sample Date	Units	Total PCBs	Aroclor 1016	Aroclor 121	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
KM09-6J-COMP	KM09-6-87 through KM09-6-92	Building 6, ground floor,	6	0.24 mg/kg	5.9 mg/kg	10/30/2009	mg/kg	2.18	<0.20	<0.20	<0.20	<0.20	<0.20	0.88	1.3
KM09-6K-COMP	KM09-6-81 through KM09-6-86	pulverized concrete	6	0.24 mg/kg	5.9 mg/kg	10/30/2009	mg/kg	1.09	<0.20	<0.20	<0.20	<0.20	<0.20	0.23	0.86
KM09-6L-COMP	KM09-6-73 through KM09-6-76	Building 6, second floor,	4	0.36 mg/kg	8.85 mg/kg	10/27/2009	mg/kg	0.50	<0.20	<0.20	<0.20	<0.20	<0.20	0.27	0.23
KM09-6M-COMP	KM09-6-77 through KM09-6-80	pulverized concrete	4	0.36 mg/kg	8.85 mg/kg	10/27/2009	mg/kg	3.26	<0.20	<0.20	<0.20	0.26	<0.20	1.6	1.4
KM09-7F-COMP	NIA-	Building 7, ground floor, pulverized concrete	4	0.36 mg/kg	8.85 mg/kg	10/27/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

Notes

1. All samples were collected on October 27 and 30, 2009, and analyzed for PCBs by EPA Method 8082 at OnSite Environmental, Inc., in Redmond, Washington.

2. Concentrations greater than high-occupancy screening criterion are shown in **bold**.

3. High-occupancy cleanup levels were established as screening criteria for composite samples. The screening criteria were calculated using the method described by the EPA (1985). High-occupancy screening criteria were calculated by (0.8) (1 mg/kg) + (2.576) (0.3) (0.8) (1.0) = 1.42 mg/kg/ number of subsamples in composite.

4. Low-occupancy cleanup levels were established as screening criteria for composite samples. The screening criteria were calculated using the method described by the EPA (1985). Low-occupancy screening criteria were calculated by (0.8)·(25 mg/kg) + (2.576)·(0.3)·(0.8)·(1.0) = 35.4 mg/kg/ number of subsamples in composite.

5. Not applicable. Primary samples not analyzed, since PCBs were not detected in composite sample.

#### Abbreviations

< = compound not detected at or above laboratory reporting limit shown

EPA = U.S. Environmental Protection Agency

mg/kg = milligrams per kilogram





#### PHASE IV PRIMARY BULK FLOOR SAMPLING RESULTS<sup>1,2</sup>

Former Kelly-Moore Manufacturing Facility Seattle, Washington

Results reported in milligrams per kilogram (mg/kg)

Sample	Sample	Sample	Total	Aroclor						
ID	Source	Date	PCBs	1016	121	1232	1242	1248	1254	1260
KM09-6-73		10/27/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-74	KM09-6L-COMP	10/27/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-75	KIND9-0L-COIVIE	10/27/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-76		10/27/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-77		10/27/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-78	KM09-6M-COMP	10/27/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-79		10/27/09	1.89	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	0.79
KM09-6-80		10/27/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-81		10/30/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-82/ KM09-6-DUP <sup>3</sup>		10/30/09	<0.50/ <0.50							
KM09-6-83		10/30/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-84		10/30/09	4.2	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	2.60
KM09-6-85		10/30/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-86		10/30/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-87		10/30/09	0.58	<0.50	<0.50	<0.50	<0.50	<0.50	0.58	<0.50
KM09-6-88		10/30/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-89	KM09-6J-COMP	10/30/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-90	11103-03-001011	10/30/09	2.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.8
KM09-6-91		10/30/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-92		10/30/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-7-49		10/27/09								
KM09-7-50	KM09-7F-COMP	10/27/09				Not 4	nalyzed			
KM09-7-51		10/27/09				NOL A	naryzeu			
KM09-7-52										
High-Occupancy Scre	ligh-Occupancy Screening Criterion <sup>4</sup>									
Low-Occupancy Scre	w-Occupancy Screening Criterion <sup>4</sup>									

#### <u>Notes</u>

1. All samples were collected on October 27 and 30, 2009, and analyzed for PCBs by EPA Method 8082 at OnSite Environmental, Inc., in Redmond, Washington.

2. Concentrations greater than high-occupancy screening criterion are shown in **bold**.

3. Duplicate concrete dust sample indicated as value after the "/".

4. For primary samples, PCB cleanup levels for low-occupancy and high-occupancy areas are established in the Toxic Substances Control Act (40 CFR Part 761.61).

#### Abbreviations

< = compound not detected at or above laboratory reporting limit shown

CFR = Code of Federal Regulations

EPA = U.S. Environmental Protection Agency

mg/kg = milligrams per kilogram



# QUALITY ASSURANCE AND QUALITY CONTROL SAMPLING RESULTS $^1$ Former Kelly-Moore Manufacturing Facility

rr Kelly-Moore Manutacturing Fa Seattle, Washington

IDSource Composite SampleDeionized water poured over samplingEB-01-082609utensils and drill bitDeionized water poured over samplingEB-02-082709utensils and drill bitEB-02-082709Utensils and drill bit	Source Composite Sample			lotal	Aroclor	Aroclor	Aroclor	Aroclor	Aroclor	Aroclor Aroclor Aroclor Aroclor Aroclor	Aroclor
EB-01-082609 utensils and drill bit Deionized water pou Deionized water pou EB-02-082709 utensils and drill bit		Date	Units	PCBs	1016	121	1232	1242	1248	1254	1260
EB-02-082709 utensils and drill bit	rea over sampling	8/26/2009	hg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Deiceized motor sou	red over sampling	8/27/2009	hg/L	<0.099	<0.099	<0.099	<0.099	<0.099	<0.099	<0.099	<0.099
EB-03-082809 utensils and drill bit	Deionized water poured over sampling utensils and drill bit	8/28/2009	hg/L	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090
EB-04-083109 Deionized water poured over sampling	red over sampling	8/31/2009	hg/L	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
EB-05-091709 Utensils and drill bit	red over sampling	9/17/2009	hg/L	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051
EB-06-102709 Utensils and drill bit	red over sampling	10/27/2009	hg/L	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049

### Notes

1. All equipment blank samples were collected on August 26-31, September 17-18, and October 27, 2009, and analyzed for PCBs by EPA Method 8082 at OnSite Environmental Inc., in Redmond, Washington. Laboratory-provided deionized water was used for each sample collected.

## Abbreviations

< = compound not detected at or above laboratory reporting limit shown

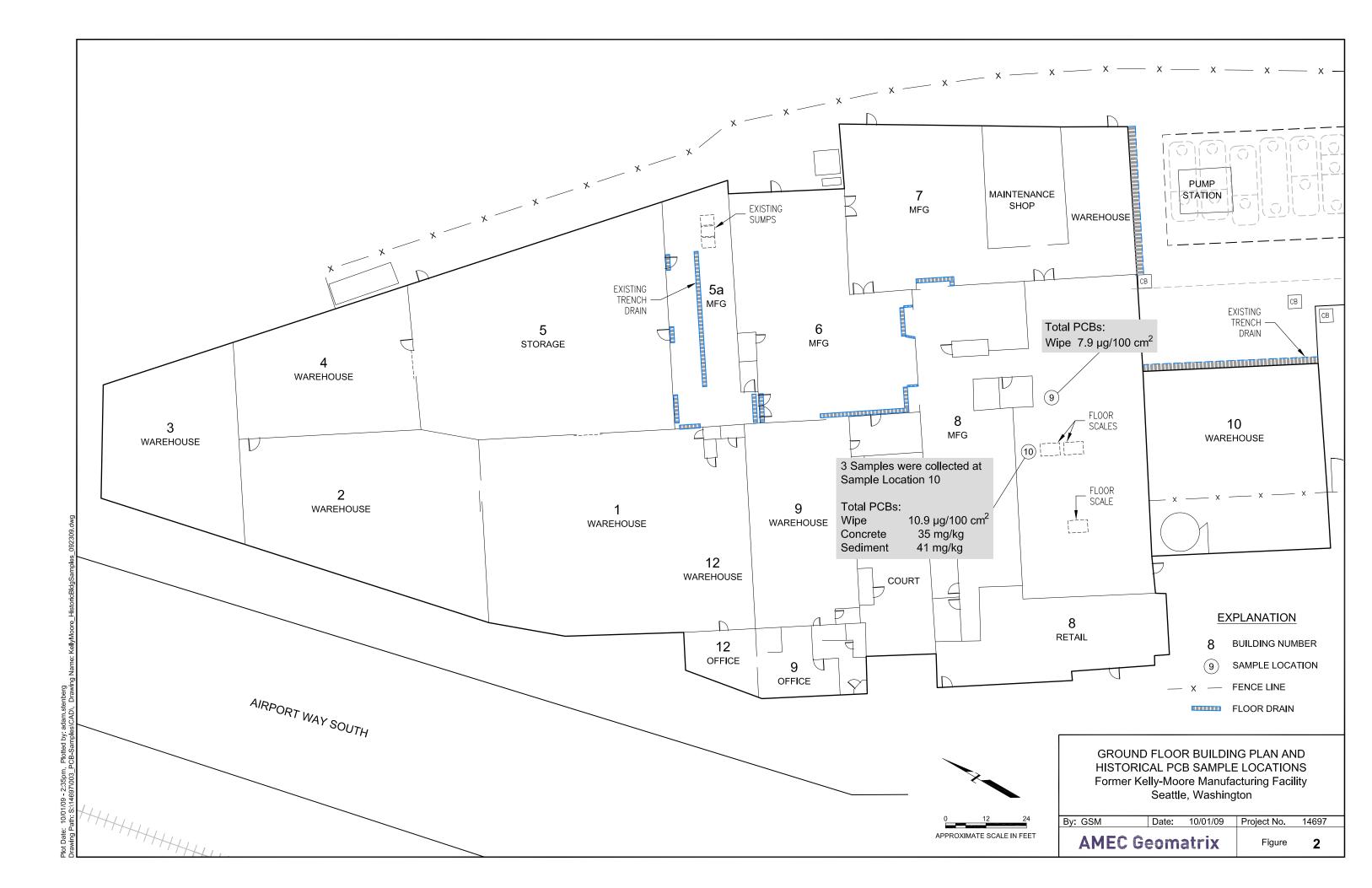
EPA = U.S. Environmental Protection Agency

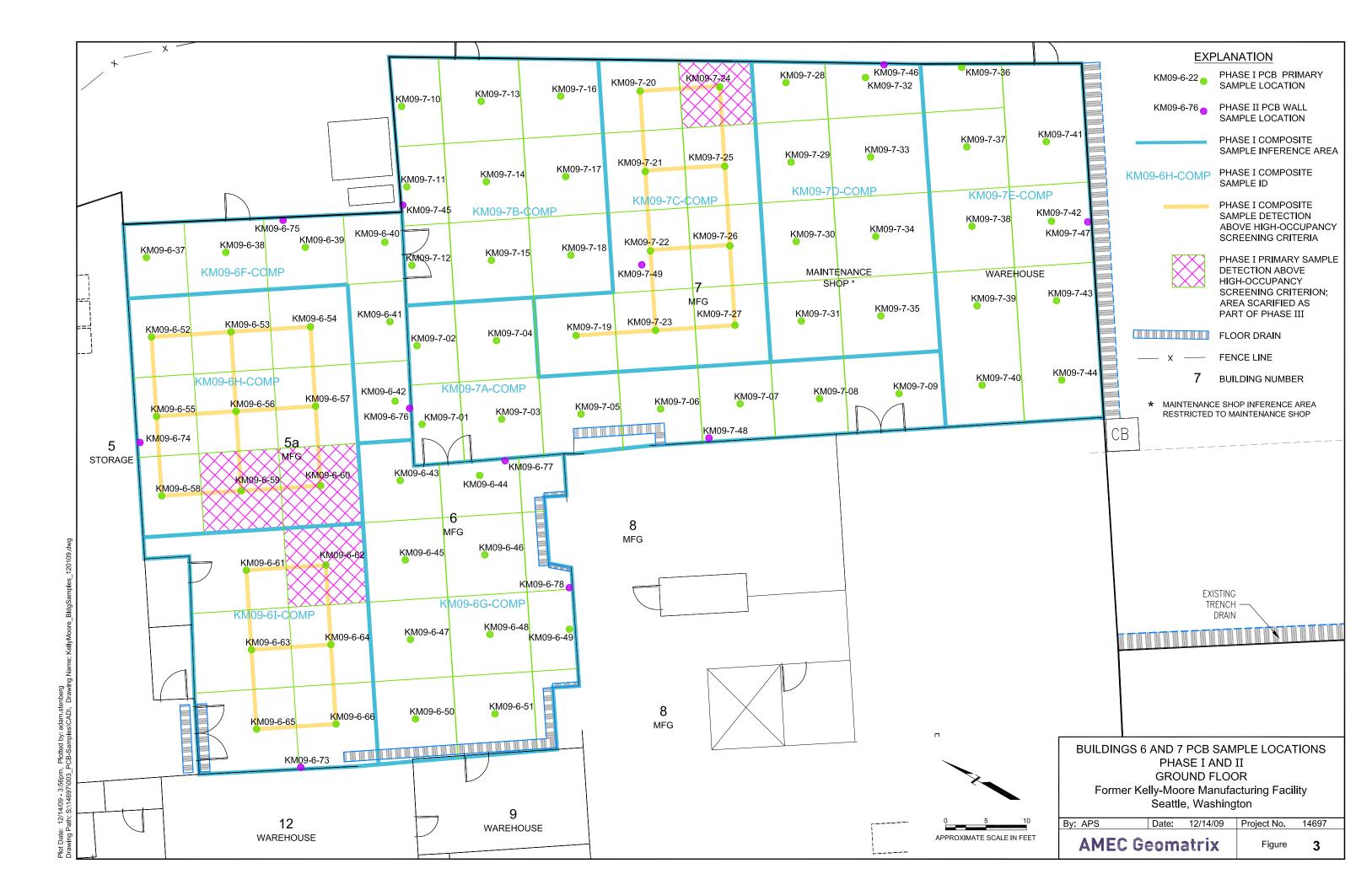
µg/L = micrograms per liter

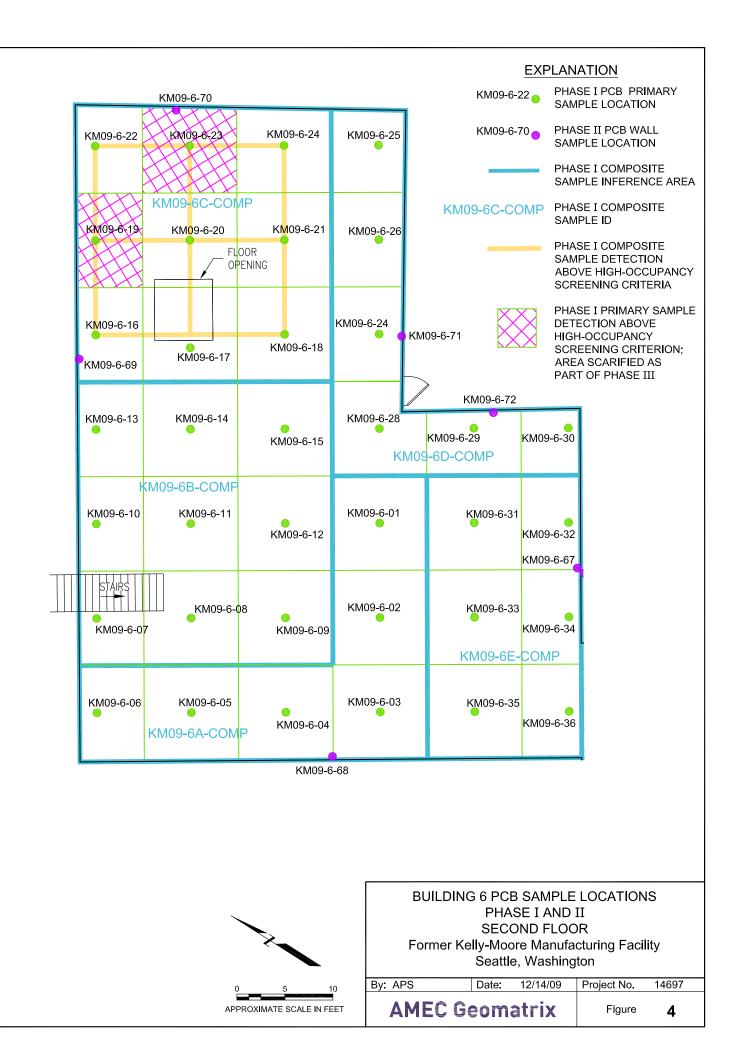


FIGURES



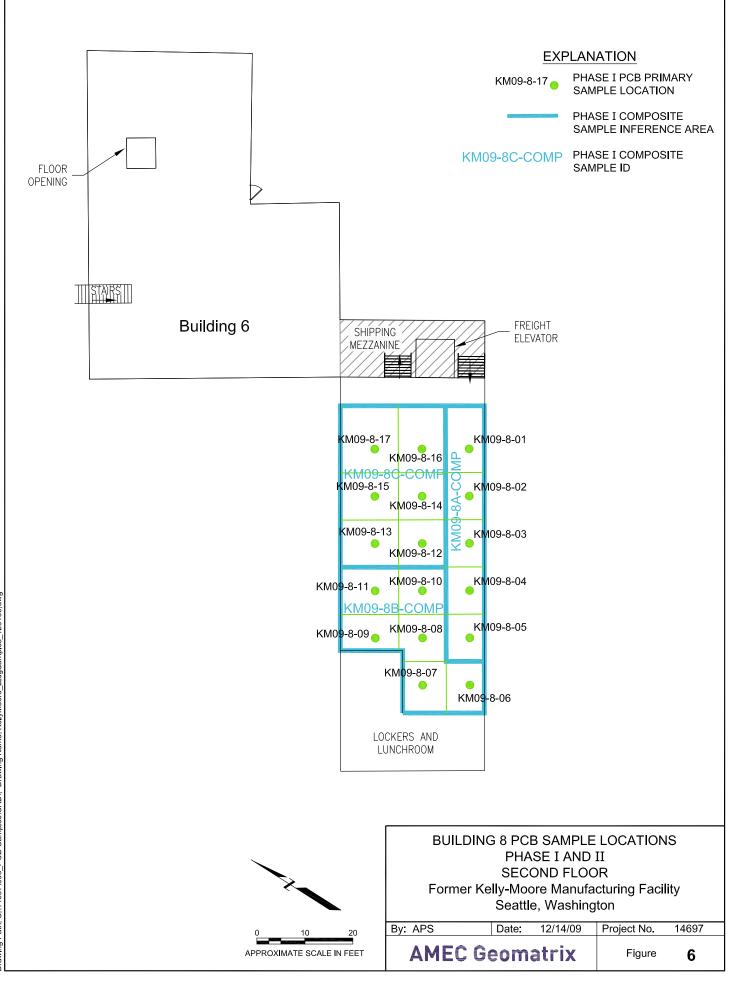








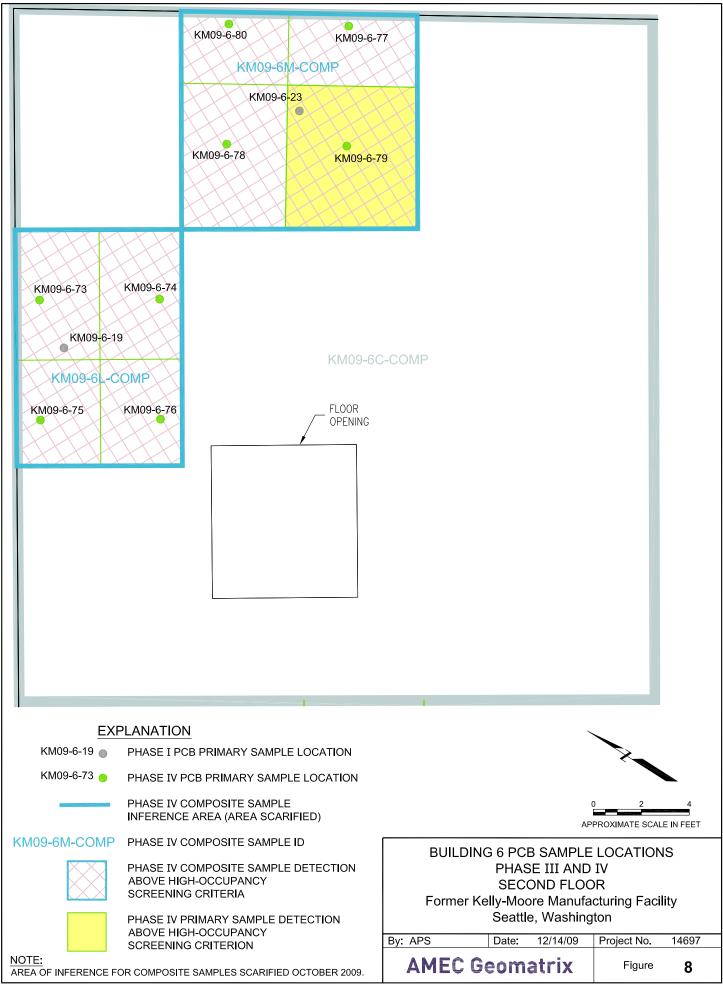
Plot Date: 12/14/09 - 3:57pm, Plotted by: adam.stenberg Drawing Path: S:\14697\003\_PCB-Samples\CAD\, Drawing Name: KellyMoore\_BldgSamples\_12



Plot Date: 12/14/09 - 3:58pm, Plotted by: adam.stenberg Drawing Path: S:\14697\003\_PCB-Samples\CAD\, Drawing Name: KellyMoore\_BldgSamples\_120109.dwg



Plot Date: 12/14/09 - 3:59pm, Plotted by: adam.stenberg Drawing Path: S:\14697\003\_PCB-Samples\CAD\, Drawing Name: KellyMoore\_BldgSamples-3rdPhase\_120209.dwg



Plot Date: 12/14/09 - 3:59pm, Plotted by: adam.stenberg Drawing Path: S:114697/003\_PCB-Samples/CAD\, Drawing Name: KellyMoore\_BldgSamples-3rdPhase\_120209.dwg





APPENDIX A

Quality Assurance/Quality Control Memorandum



## Memo

Fax:

Date:

To:	Natasya Gray
From:	Crystal Neirby
Tel:	(206) 342-1760

(206) 342-1761

December 2, 2009

Project: 14697.000 cc: Project File

Subject: Kelly Moore Paints – PCB Sampling – August and September 2009 Summary Data Quality Review – SDGs 0908-197, 0908-197B, 0908-208, 0908-208B, 0908-213, 0908-213B, 0908-230, 0909-003, 0909-167, 0910-218, 0910-218B, 0910-249, 0910-249B

This memorandum presents a summary data quality review for analyses of 97 concrete dust samples (26 composites, 1 composite field duplicate, 69 primary samples, and 1 primary sample field duplicate), 7 wood samples (1 wood composite and 6 primary wood dust samples), 5 wipe samples (2 composites and 3 primary samples), and 6 equipment blank samples collected from August 26 through October 30, 2009. The samples were submitted to OnSite Environmental, Inc. (OnSite), a Washington State Department of Ecology (Ecology)-accredited laboratory, located in Redmond, Washington. The analyses were performed in general accordance with methods specified in the U.S. Environmental Protection Agency's (EPA's) Test Methods for Evaluating Solid Waste (SW-846) (EPA, 2008a). The samples were analyzed for the following analytes:

• Polychlorinated biphenyls (PCBs) by EPA Method 8082.

The samples associated with each sample delivery group (SDG) and a summary of the data quality review are presented in Table 1 (attached). Some samples were submitted and placed on hold, pending results of associated samples. Only the samples analyzed by the laboratory are included in Table 1.

The samples were received within the acceptable temperature range of  $4 \pm 2^{\circ}$ C, and there were no sample discrepancies noted by the laboratory upon receipt.

Data were reviewed in accordance with the appropriate method procedures. The most current control limits provided by the laboratory were used to evaluate the quality control data.

The following were reviewed to assess compliance with applicable methods and laboratory procedures: hold times; method blanks, blank spike (BS), and blank spike duplicate (BSD) results; matrix spike/matrix spike duplicate (MS/MSD) results; surrogate recoveries; field duplicate results; and reporting limits. If data qualification was required, data were qualified in general accordance with the definitions and use of qualifying flags outlined in EPA guidance (EPA, 2008b).

AMEC Geomatrix, Inc. 600 University Street, Suite 1020 Seattle, Washington USA 98101-4107 Tel (206) 342-1760 Fax (206) 342-1761 www.amecgeomatrixinc.com

AMEC Geomatrix



Memo December 2, 2009 Page 2 of 7

Samples were analyzed for PCBs by the method identified in the introduction to this report and were evaluated for the following criteria.

- 1. Holding Times Acceptable
- 2. Blanks Acceptable

Six equipment blanks were submitted with the samples and analyzed for PCBs. There were no detections in the equipment blanks.

3. BS/BSD – Acceptable

The laboratory did not report blank spike results if acceptable MS/MSD results were obtained, following its standard operating procedure. Sample results are not qualified.

4. MS/MSD – Acceptable except as noted:

### SDG 0910-218 and 0910-249

The MS/MSD was performed with sample KM09-6K-COMP. The MS recovery for aroclor 1260 was 147 percent, greater than the control limits of 24-125%. The associated MSD and BS/BSD recoveries were acceptable. Therefore, sample results were not qualified.

5. Surrogate Recoveries – Acceptable except as noted:

### SDG 0908-208

The surrogate recoveries were greater than the control limits of 39 to 128 percent in the equipment blank EB-02-082709 at 196 percent and in the method blank associated with batch MB0901W1 at 188 percent. The high surrogate recoveries equate to a high bias in the samples. Since there were no detections in the equipment blank or the method blank, sample results are not qualified.

### SDG 0909-003

The surrogates were not recovered in the analysis of samples KM09-8-78 and KM09-8-79 due to the high dilution necessitated by matrix interference. Sample results are not qualified.

### SDG 0909-167

The surrogate recoveries were greater than the control limits of 33 to 122 percent in sample KM09-7-48 at 125 percent and in the method blank associated with batch MB0923S1 at 129 percent. The high surrogate recoveries equate to a high bias in the samples. Since there were no detections in the sample or the method blank, sample results are not qualified.

6. Field Duplicates - Acceptable



Memo December 2, 2009 Page 3 of 7

Two field duplicates were collected, one was collected with sample KM09-8D-COMP and labeled as sample KM09-8-DUP, and one was collected with sample KM09-6-82 and labeled as sample KM09-6-DUP. Both the primary and duplicate samples were analyzed and did not have detections; therefore, a relative percent difference could not be calculated. Sample results are not qualified.

7. Reporting Limits and Laboratory Qualifiers – Acceptable except as noted:

## SDG 0909-003

The reporting limits for Aroclor 1016, Aroclor 1221, and Aroclor 1232 in sample KM09-8-78 were flagged by the laboratory with a "U1" to indicate a raised reporting limit due to matrix interference. The results are reported as non-detect at the raised reporting limit, without the "U1" qualifier.

# OVERALL ASSESSMENT OF DATA

The OnSite SDGs 0908-197, 0908-197B, 0908-208, 0908-208B, 0908-213, 0908-213B, 0908-230, 0909-003, 0909-167, 0910-218, 0910-218B, 0910-249, and 0910-249B are 100 percent complete. The data usability is based on EPA's guidance documents. Few problems were identified, and the analytical performance was generally within specified limits. The data are acceptable and meet the project's data quality objectives.

## REFERENCES

- EPA (U.S. Environmental Protection Agency), 2008a, Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW-846), Third Edition, September 1986; Final Update I, July 1992; Final Update IIA, August 1993; Final Update II, September 1994; Final Update IIB, January 1995; Final Update III, December 1996; Final Update IIIA, April 1998; Final Update IV, January 2008.
- EPA, 2008b, U.S. EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review: EPA 540-R-08-001, June.



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# TABLE 1

Semale ID	800	Metrix	Qualified
Sample ID	SDG	Matrix	Analyte
KM09-6A-COMP	0908-197	Concrete Dust	none
KM09-6B-COMP	0908-197	Concrete Dust	none
KM09-6C-COMP	0908-197	Concrete Dust	none
KM09-6D-COMP	0908-197	Concrete Dust	none
KM09-6E-COMP	0908-197	Concrete Dust	none
EB-1-082609	0908-197	Equipment Blank	none
KM09-6-16	0908-197B	Concrete Dust	none
KM09-6-17	0908-197B	Concrete Dust	none
KM09-6-18	0908-197B	Concrete Dust	none
KM09-6-19	0908-197B	Concrete Dust	none
KM09-6-20	0908-197B	Concrete Dust	none
KM09-6-21	0908-197B	Concrete Dust	none
KM09-6-22	0908-197B	Concrete Dust	none
KM09-6-23	0908-197B	Concrete Dust	none
KM09-6-24	0908-197B	Concrete Dust	none
KM09-6F-COMP	0908-208	Concrete Dust	none
KM09-6G-COMP	0908-208	Concrete Dust	none
KM09-6H-COMP	0908-208	Concrete Dust	none
KM09-6I-COMP	0908-208	Concrete Dust	none
KM09-7A-COMP	0908-208	Concrete Dust	none
KM09-7B-COMP	0908-208	Concrete Dust	none
EB-02-082709	0908-208	Equipment Blank	none
KM09-6-52	0908-208B	Concrete Dust	none
KM09-6-53	0908-208B	Concrete Dust	none
KM09-6-54	0908-208B	Concrete Dust	none
KM09-6-55	0908-208B	Concrete Dust	none
KM09-6-56	0908-208B	Concrete Dust	none
KM09-6-57	0908-208B	Concrete Dust	none
KM09-6-58	0908-208B	Concrete Dust	none
KM09-6-59	0908-208B	Concrete Dust	none
KM09-6-60	0908-208B	Concrete Dust	none
KM09-6-61	0908-208B	Concrete Dust	none
KM09-6-62	0908-208B	Concrete Dust	none
KM09-6-63	0908-208B	Concrete Dust	none
KM09-6-64	0908-208B	Concrete Dust	none
KM09-6-65	0908-208B	Concrete Dust	none



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# TABLE 1

			Qualified
Sample ID	SDG	Matrix	Analyte
KM09-6-66	0908-208B	Concrete Dust	none
KM09-7C-COMP	0908-213	Concrete Dust	none
KM09-7D-COMP	0908-213	Concrete Dust	none
KM09-7E-COMP	0908-213	Concrete Dust	none
KM09-8A-COMP	0908-213	Wipe	none
KM09-8B-COMP	0908-213	Wipe	none
KM09-8C-COMP	0908-213	Wood	none
KM09-8D-COMP	0908-213	Concrete Dust	none
KM09-8-Dup	0908-213	Concrete Dust	none
EB-03-082809	0908-213	Equipment Blank	none
KM09-7-19	0908-213B	Concrete Dust	none
KM09-7-20	0908-213B	Concrete Dust	none
KM09-7-21	0908-213B	Concrete Dust	none
KM09-7-22	0908-213B	Concrete Dust	none
KM09-7-23	0908-213B	Concrete Dust	none
KM09-7-24	0908-213B	Concrete Dust	none
KM09-7-25	0908-213B	Concrete Dust	none
KM09-7-26	0908-213B	Concrete Dust	none
KM09-7-27	0908-213B	Concrete Dust	none
KM09-8E-COMP	0908-230	Concrete Dust	none
KM09-8F-COMP	0908-230	Concrete Dust	none
KM09-8G-COMP	0908-230	Concrete Dust	none
KM09-8H-COMP	0908-230	Concrete Dust	none
KM09-8I-COMP	0908-230	Concrete Dust	none
KM09-8J-COMP	0908-230	Concrete Dust	none
KM09-8K-COMP	0909-003	Concrete Dust	none
KM09-8-78	0909-003	Concrete Dust	none
KM09-8-79	0909-003	Concrete Dust	none
EB-04-083109	0909-003	Equipment Blank	none
KM09-6-67	0909-167	Concrete Dust	none
KM09-6-68	0909-167	Concrete Dust	none
KM09-6-69	0909-167	Concrete Dust	none
KM09-6-70	0909-167	Concrete Dust	none
KM09-6-71	0909-167	Concrete Dust	none
KM09-6-72	0909-167	Concrete Dust	none
KM09-6-73	0909-167	Concrete Dust	none
KM09-6-74	0909-167	Concrete Dust	none
KM09-6-75	0909-167	Concrete Dust	none
KM09-6-76	0909-167	Concrete Dust	none



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# TABLE 1

			Qualified
Sample ID	SDG	Matrix	Analyte
KM09-6-77	0909-167	Concrete Dust	none
KM09-6-78	0909-167	Concrete Dust	none
KM09-7-45	0909-167	Concrete Dust	none
KM09-7-48	0909-167	Wood Dust	none
KM09-8-80	0909-167	Concrete Dust	none
KM09-8-81	0909-167	Wood Dust	none
KM09-8-82	0909-167	Wood Dust	none
KM09-8-83	0909-167	Wood Dust	none
KM09-8-84	0909-167	Wood Dust	none
KM09-8-85	0909-167	Wood Dust	none
KM09-7-46	0909-167	Wipe	none
KM09-7-47	0909-167	Wipe	none
KM09-7-49	0909-167	Wipe	none
EB09-05-091709	0909-167	Equipment Blank	none
KM09-7F-COMP	0910-218	Concrete Dust	none
KM09-6M-COMP	0910-218	Concrete Dust	none
KM09-6L-COMP	0910-218	Concrete Dust	none
EB06-102709	0910-218	Equipment Blank	none
KM09-6-80	0910-218B	Concrete Dust	none
KM09-6-77	0910-218B	Concrete Dust	none
KM09-6-78	0910-218B	Concrete Dust	none
KM09-6-79	0910-218B	Concrete Dust	none
KM09-6-73	0910-218B	Concrete Dust	none
KM09-6-74	0910-218B	Concrete Dust	none
KM09-6-75	0910-218B	Concrete Dust	none
KM09-6-76	0910-218B	Concrete Dust	none
KM09-6J-COMP	0910-249	Concrete Dust	none
KM09-6K-COMP	0910-249	Concrete Dust	none
KM09-6-81	0910-249B	Concrete Dust	none
KM09-6-82	0910-249B	Concrete Dust	none
KM09-6-DUP	0910-249B	Concrete Dust	none
KM09-6-83	0910-249B	Concrete Dust	none
KM09-6-84	0910-249B	Concrete Dust	none
KM09-6-85	0910-249B	Concrete Dust	none
KM09-6-86	0910-249B	Concrete Dust	none
KM09-6-87	0910-249B	Concrete Dust	none
KM09-6-88	0910-249B	Concrete Dust	none
KM09-6-89	0910-249B	Concrete Dust	none
KM09-6-90	0910-249B	Concrete Dust	none



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# TABLE 1

Sample ID	SDG	Matrix	Qualified Analyte
KM09-6-91	0910-249B	Concrete Dust	none
KM09-6-92	0910-249B	Concrete Dust	none



# APPENDIX B

Laboratory Analytical Results

Laboratory Reference No. 0901-148





February 3, 2009

Tim Reinhardt AMEC Geomatrix Consultants, Inc. One Union Square 600 University Street, Suite 1020 Seattle, WA 98101

Re: Analytical Data for Project 14697.000 Laboratory Reference No. 0901-148

Dear Tim:

Enclosed are the analytical results and associated quality control data for samples submitted on January 23, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

Date of Report: February 3, 2009 Samples Submitted: January 23, 2009 Laboratory Reference: 0901-148 Project: 14697.000

#### **Case Narrative**

2

Samples were collected on January 22 and 23, 2009, and received by the laboratory on January 23, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

#### Volatiles EPA 8260B Analysis

Method 5035A VOA vials were not provided for the samples. They were therefore extracted from 2-ounce jars. Some loss of volatiles may have occurred.

The results for samples 13-012209, 15-012209, 16-012209, 17-012209, 18-012309, 19-012309, and 20-012309 are reported on a wet-weight basis.

Internal Standard 1,4-Dichlorobenzene-d4 does not meet acceptance criteria for samples 2-012209, 15-012209, 17-012209, 19-012309, and 3-012309 due to sample matrix effects. The samples were analyzed at two different dilutions with similar results. All results, including Practical Quantitation Limits, from Bromobenzene onward should be considered estimates.

Internal Standards Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 do not meet acceptance criteria for sample 16-012209 due to sample matrix effects. The sample was analyzed at two different dilutions with similar results. All results, including Practical Quantitation Limits, from (trans) 1,3-Dichloropropene onward should be considered estimates.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

#### Semivolatiles EPA 8270D/SIM Analysis

The sample 3-012309 had one acid and one base surrogate outside of control limits. This is within allowance of our standard operation procedure as long as the recovery is above 10%.

Due to the matrix of the samples, the samples were extracted at 0.5 grams.

The results for samples 13-012209, 15-012209, 16-012209, 17-012209, 18-012309, 19-012309, and 20-012309 are reported on a wet-weight basis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

#### Total Metals EPA 6010B/7471A Analysis

Sample results are reported on a wet-weight basis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: February 3, 2009 Samples Submitted: January 23, 2009 Lab Traveler: 0901-148 Project: 14697.000

### PCBs by EPA 8082

Matrix: Wipe Units: ug/100em2 Wipe

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	10-012209					
Laboratory ID:	01-148-04					
Aroclor 1016	ND	2.0	EPA 8082	1-26-09	1-26-09	
Aroclor 1221	ND	2.0	EPA 8082	1-26-09	1-26-09	
Aroclor 1232	ND	2.0	EPA 8082	1-26-09	1-26-09	
Aroclor 1242	ND	2.0	EPA 8082	1-26-09	1-26-09	
Aroclor 1248	ND	2.0	EPA 8082	1-26-09	1-26-09	
Aroclor 1254	12	2.0	EPA 8082	1-26-09	1-26-09	· · · · ·
Aroclor 1260	4.1	2.0	EPA 8082	1-26-09	1-26-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	102	69-130				
Client ID:	9-012209					
Laboratory ID:	01-148-05		and the second second			
Aroclor 1016	ND	2.0	EPA 8082	1-26-09	1-26-09	
Aroclor 1221	ND	2.0	EPA 8082	1-26-09	1-26-09	
Aroclor 1232	ND	2.0	EPA 8082	1-26-09	1-26-09	
Aroclor 1242	ND	2.0	EPA 8082	1-26-09	1-26-09	
Aroclor 1248	ND	2.0	EPA 8082	1-26-09	1-26-09	
Aroclor 1254		~ ~		1-26-09	1-26-09	
	7.0	2.0	EPA 8082	1-20-09	1-20-08	
Aroclor 1260	7.0 4.8	2.0 2.0	EPA 8082 EPA 8082	1-26-09	1-26-09	
		2.0				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

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G

Date of Report: February 3, 2009 Samples Submitted: January 23, 2009 Lab Traveler: 0901-148 Project: 14697.000

### PCBs by EPA 8082 QUALITY CONTROL

Matrix: Wipe Units: ug/100cm2

					Date	Date	
Analyte		Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK	<b>X</b> i i						¥
Laboratory ID:		MB0126P1					
Aroclor 1016		ND	2.0	EPA 8082	1-26-09	1-26-09	
Aroclor 1221		ND	2.0	EPA 8082	1-26-09	1-26-09	
Aroclor 1232		ND	2.0	EPA 8082	1-26-09	1-26-09	
Aroclor 1242		ND	2.0	EPA 8082	1-26-09	1-26-09	
Aroclor 1248		ND	2.0	EPA 8082	1-26-09	1-26-09	
Aroclor 1254		ND	2.0	EPA 8082	1-26-09	1-26-09	
Aroclor 1260		ND	2.0	EPA 8082	1-26-09	1-26-09	
Surrogate:		Percent Recovery	Control Limits	3			
DCB		122	69-130				

					Source	Pei	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS Laboratory ID:	SB01	26P1		· · ·							
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	21.9	21.7	20.0	20.0	N/A	110	109	91-120	1	4	
Surrogate: DCB						121	121	69-130			

Laboratory Reference No. 0903-040





March 27, 2009

Tasya Gray AMEC Geomatrix Consultants, Inc. One Union Square 600 University Street, Suite 1020 Seattle, WA 98101

Re: Analytical Data for Project 14697.000 Laboratory Reference No. 0903-040

Dear Tasya:

Enclosed are the analytical results and associated quality control data for samples submitted on March 9, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely David Baumeister Project-Manager

Enclosures

Date of Report: March 27, 2009 Samples Submitted: March 9, 2009 Laboratory Reference: 0903-040 Project: 14697.000

#### **Case Narrative**

Samples were collected on March 6, 2009, and received by the laboratory on March 9, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

### Total Metals EPA 6010B/7471A Analysis

Samples are reported on a wet-weight basis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

### PCBs EPA 8082 Analysis

Due to the solid waste matrices of the samples 29-030609 and 30-030609, results are based on a wet weight basis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

### Date of Report: March 27, 2009 Samples Submitted: March 9, 2009 Lab Traveler: 0903-040 Project: 14697.000

# PCBs by EPA 8082

Matrix: Solid Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	29-030609					
Laboratory ID:	03-040-02	and the second second second				
Aroclor 1016	ND	4.0	EPA 8082	3-10-09	3-10&11-09	
Aroclor 1221	ND	4.0	EPA 8082	3-10-09	3-10&11-09	
Aroclor 1232	ND	4.0	EPA 8082	3-10-09	3-10&11-09	
Aroclor 1242	ND	4.0	EPA 8082	3-10-09	3-10&11-09	
Aroclor 1248	ND	4.0	EPA 8082	3-10-09	3-10&11-09	
Aroclor 1254	29	4.0	EPA 8082	3-10-09	3-10&11-09	
Aroclor 1260	12	4.0	EPA 8082	3-10-09	3-10&11-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	63	35-127				
Client ID:	30-030609			a de la companya de l		
Laboratory ID:	03-040-03				• 	
Aroclor 1016	ND	2.0	EPA 8082	3-10-09	3-10&11-09	
Aroclor 1221	ND	2.0	EPA 8082	3-10-09	3-10&11-09	
Aroclor 1232	ND	2.0	EPA 8082	3-10-09	3-10&11-09	
Aroclor 1242	ND	2.0	EPA 8082	3-10-09	3-10&11-09	
Aroclor 1248	ND	2.0	EPA 8082	3-10-09	3-10&11-09	
Aroclor 1254	22	2.0	EPA 8082	3-10-09	3-10&11-09	
Aroclor 1260	13	2.0	EPA 8082	3-10-09	3-10&11-09	and the sector
Surrogate:	Percent Recovery	Control Limits				
DCB	58	35-127				

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 27, 2009 Samples Submitted: March 9, 2009 Lab Traveler: 0903-040 Project: 14697.000

### PCBs by EPA 8082 QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

						Date	Date	
Analyte			Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLAN	NK .							¥
Laboratory ID:			MB0310S1					
Aroclor 1016			ND	0.050	EPA 8082	3-10-09	3-10-09	
Aroclor 1221			ND	0.050	EPA 8082	3-10-09	3-10-09	
Aroclor 1232			ND	0.050	EPA 8082	3-10-09	3-10-09	
Aroclor 1242			ND	0.050	EPA 8082	3-10-09	3-10-09	
Aroclor 1248			ND	0.050	EPA 8082	3-10-09	3-10-09	
Aroclor 1254			ND	0.050	EPA 8082	3-10-09	3-10-09	
Aroclor 1260		e e la compositione de la compos	ND	0.050	EPA 8082	3-10-09	3-10-09	
Surrogate:		Pe	rcent Recover	ry Control Limits				
DCB			99	35-127				

Analyte		De		<b>C</b> 11	1. 1 1	Source		ercent	Recovery		RPD	
MATRIX SPIKE	=5	Res	sult	Spike	Level	Result	Red	covery	Limits	RPD	Limit	Flags
Laboratory ID:		03-03	37-04									
		MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260		0.235	0.251	0.500	0.500	ND	47	50	24-128	7	14	
Surrogate:									· · ·		194 - A.	
DCB							65	58	35-127			

Laboratory Reference No. 0908-197



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

September 3, 2009

Tasya Gray AMEC Geomatrix Consultants, Inc. One Union Square 600 University Street, Suite 1020 Seattle, WA 98101

Re: Analytical Data for Project 14697.000 Laboratory Reference No. 0908-197

Dear Tasya:

Enclosed are the analytical results and associated quality control data for samples submitted on August 26, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

Date of Report: September 3, 2009 Samples Submitted: August 26, 2009 Laboratory Reference: 0908-197 Project: 14697.000

## **Case Narrative**

Samples were collected on August 26, 2009, and received by the laboratory on August 26, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: September 3, 2009 Samples Submitted: August 26, 2009 Lab Traveler: 0908-197 Project: 14697.000

## PCBs by EPA 8082

Matrix: Concrete Dust Units: mg/Kg (ppm)

Result KM09-6A-COMP 08-197-02 ND ND ND	PQL 0.20 0.20	Method EPA 8082	Prepared	Analyzed	Flags
08-197-02 ND ND ND		EPA 8082			
ND ND ND		EPA 8082			
ND ND		EPA 8082			
ND	0.20		9-1-09	9-2-09	
		EPA 8082	9-1-09	9-2-09	
	0.20	EPA 8082	9-1-09	9-2-09	
ND	0.20	EPA 8082	9-1-09	9-2-09	
ND	0.20	EPA 8082	9-1-09	9-2-09	
	0.20	EPA 8082	9-1-09	9-2-09	
ND	0.20	EPA 8082	9-1-09	9-2-09	
Percent Recovery	Control Limits				
101	33-122				
KM09-6B-COMP					
08-197-09					
ND	0.20	EPA 8082	9-1-09	9-2-09	
ND			9-1-09		
ND			9-1-09		
ND					
ND	0.20	EPA 8082	9-1-09	9-2-09	
ND	0.20	EPA 8082	9-1-09	9-2-09	
ND	0.20	EPA 8082	9-1-09	9-2-09	
Percent Recovery	Control Limits				
90	33-122				
KM09-6C-COMP					
08-197-20					
ND	0.20	EPA 8082	9-1-09	9-2-09	
			0.00	0 = 00	
•					
	ND           ND           Percent Recovery           101           KM09-6B-COMP           08-197-09           ND           ND	ND         0.20           ND         0.20           ND         0.20           Percent Recovery         Control Limits           101         33-122           KM09-6B-COMP         33-122           KM09-6B-COMP         0.20           ND         0.	ND         0.20         EPA 8082           ND         0.20         EPA 8082           ND         0.20         EPA 8082           ND         0.20         EPA 8082           Percent Recovery         Control Limits         33-122           KM09-6B-COMP         33-122            08-197-09         0.20         EPA 8082           ND         0.20         EPA 8082	ND         0.20         EPA 8082         9-1-09           ND         0.20         EPA 8082         9-1-09           ND         0.20         EPA 8082         9-1-09           Percent Recovery         Control Limits         33-122           KM09-6B-COMP         33-122	ND         0.20         EPA 8082         9.1.09         9.2.09           ND         0.20         EPA 8082         9.1.09         9.2.09           ND         0.20         EPA 8082         9.1.09         9.2.09           Percent Recovery         Control Limits         33.122         9.1.09         9.2.09           Percent Recovery         Control Limits         33.122         5.2.01         5.2.01           KM09-6B-COMP         33.122         5.2.01         5.2.01         5.2.01           08-197-09         0.20         EPA 8082         9.1.09         9.2.09           ND         0.20         EPA 8082         9.1.

Date of Report: September 3, 2009 Samples Submitted: August 26, 2009 Lab Traveler: 0908-197 Project: 14697.000

## PCBs by EPA 8082

Matrix: Concrete Dust Units: mg/Kg (ppm)

<b>3 3</b> (FF )				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6D-COMP					
Laboratory ID:	08-197-30					
Aroclor 1016	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1221	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1232	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1242	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1248	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1254	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1260	ND	0.20	EPA 8082	9-1-09	9-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	99	33-122				
Client ID:	KM09-6E-COMP					
Laboratory ID:	08-197-37					
Aroclor 1016	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1221	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1232	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1242	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1248	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1254	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1260	ND	0.20	EPA 8082	9-1-09	9-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	103	33-122				

## PCBs by EPA 8082 QUALITY CONTROL

Matrix: Solids Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0901S1					
Aroclor 1016	ND	0.020	EPA 8082	9-1-09	9-1-09	
Aroclor 1221	ND	0.020	EPA 8082	9-1-09	9-1-09	
Aroclor 1232	ND	0.020	EPA 8082	9-1-09	9-1-09	
Aroclor 1242	ND	0.020	EPA 8082	9-1-09	9-1-09	
Aroclor 1248	ND	0.020	EPA 8082	9-1-09	9-1-09	
Aroclor 1254	ND	0.020	EPA 8082	9-1-09	9-1-09	
Aroclor 1260	ND	0.020	EPA 8082	9-1-09	9-1-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	92	33-122				

					Source	Per	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	08-22	21-02									
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.537	0.515	0.500	0.500	ND	107	103	24-125	4	18	
Surrogate:											
DCB						101	96	33-122			

## PCBs by EPA 8082

Matrix: Water Units: ug/L (ppb)

omio: ag/2 (ppo)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	EB-01-082609					
Laboratory ID:	08-197-18					
Aroclor 1016	ND	0.10	EPA 8082	8-27-09	8-28-09	
Aroclor 1221	ND	0.10	EPA 8082	8-27-09	8-28-09	
Aroclor 1232	ND	0.10	EPA 8082	8-27-09	8-28-09	
Aroclor 1242	ND	0.10	EPA 8082	8-27-09	8-28-09	
Aroclor 1248	ND	0.10	EPA 8082	8-27-09	8-28-09	
Aroclor 1254	ND	0.10	EPA 8082	8-27-09	8-28-09	
Aroclor 1260	ND	0.10	EPA 8082	8-27-09	8-28-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	103	39-128				

## PCBs by EPA 8082 QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0827W1					
Aroclor 1016	ND	0.050	EPA 8082	8-27-09	8-28-09	
Aroclor 1221	ND	0.050	EPA 8082	8-27-09	8-28-09	
Aroclor 1232	ND	0.050	EPA 8082	8-27-09	8-28-09	
Aroclor 1242	ND	0.050	EPA 8082	8-27-09	8-28-09	
Aroclor 1248	ND	0.050	EPA 8082	8-27-09	8-28-09	
Aroclor 1254	ND	0.050	EPA 8082	8-27-09	8-28-09	
Aroclor 1260	ND	0.050	EPA 8082	8-27-09	8-28-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	109	39-128				

					Source	Per	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB08	27W1									
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.499	0.521	0.500	0.500	N/A	100	104	58-113	4	11	
Surrogate:											
DCB						99	105	39-128			



#### **Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- Y Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

Phone: (425) 883-3881 · Fax: (426) 885-4603         Cineci           Compari:         Compari:         Cineci           Project Number: $2 Day           Project Number:         2 Day           Project Number:         2 Day           Project Number:         2 Day           Project Number:         2 Day           Project Name:         2 Day           Check         2 Day           Sampley:         2 Day           Check         2 Day           Check         2 Day           Progen:         2 Day           Progen:         2 Day           Progen:         2 Day           Progen:$	$\begin{array}{c c} cccccccccccccccccccccccccccccccccc$	Image: Construction of the state of the	B09S8 vd selitslov betsnegolsH         Image: Construction of the selitslow betsnegolsh         Image: Construction of the selitslow betsnegolsh         Image: Construction of the selitslow betsnegolsh         Image: Construction of the selitsless          Image: Construction of the selitsless <th< th=""><th>PCBs by 8082       Pesticides by 8081A       Pesticides by 8151A       Pestides by 8151A<th>TCLP Metals (8)</th><th>EDH 89854- 6CT</th><th>6</th><th>enision %</th></th></th<>	PCBs by 8082       Pesticides by 8081A       Pesticides by 8151A       Pestides by 8151A <th>TCLP Metals (8)</th> <th>EDH 89854- 6CT</th> <th>6</th> <th>enision %</th>	TCLP Metals (8)	EDH 89854- 6CT	6	enision %
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24 KMO9-6-20	8/26/9	[23]	-/ Ø	20% -		-							$\times$		
25 KMD9-6-21	8/46/9	1244	6	207-									X		
26 KM09-6-22	8/26/9 125	251	0 1-	20%-				`					X		
	8/26/9	1361	ð 14	20K									X		
	Stubbe	1215	-1 0	Hel.									$\mathbf{\hat{X}}$		
29 Kanja-6-25		1325	0 1	20.3-									X		
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Environmental Inc.	Turnaround Request (In working days)	Laboratory Number:		08-197
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35 KM09-6-30	8/26/9 14 09 0 1-402			X
36 KM09-6-31	S/28/19 1413 0 1-405			X
37 KMO9-GE-COMP	8/26/0 1413 O 1-802			×
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Laboratory Reference No. 0908-197B



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

September 17, 2009

Tasya Gray AMEC Geomatrix Consultants, Inc. One Union Square 600 University Street, Suite 1020 Seattle, WA 98101

Re: Analytical Data for Project 14697.000 Laboratory Reference No. 0908-197B

Dear Tasya:

Enclosed are the analytical results and associated quality control data for samples submitted on August 26, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

Date of Report: September 17, 2009 Samples Submitted: August 26, 2009 Laboratory Reference: 0908-197B Project: 14697.000

### **Case Narrative**

Samples were collected on August 26, 2009, and received by the laboratory on August 26, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Result	PQL				
		Method	Prepared	Analyzed	Flags
KM09-6-16					
08-197-19					
ND	0.50	EPA 8082	9-14-09	9-15-09	
ND	0.50	EPA 8082	9-14-09	9-15-09	
ND	0.50	EPA 8082	9-14-09	9-15-09	
ND	0.50	EPA 8082	9-14-09	9-15-09	
ND	0.50	EPA 8082	9-14-09	9-15-09	
ND	0.50	EPA 8082	9-14-09	9-15-09	
ND	0.50	EPA 8082	9-14-09	9-15-09	
Percent Recovery	Control Limits				
101	33-122				
KM09-6-17					
	0.50	EPA 8082	9-14-09	9-15-09	
86	33-122				
KM09-6-18					
	0.50	FPA 8082	9-14-09	9-15-09	
		LI / 0002	01-1-00	0 10-00	
-					
	ND ND ND ND ND ND Percent Recovery 101 KM09-6-17 08-197-21 ND ND ND ND ND ND ND ND ND ND ND ND ND	ND         0.50           Percent Recovery         Control Limits           101         33-122           KM09-6-17         08-197-21           ND         0.50           ND         0.50	ND         0.50         EPA 8082           Percent Recovery         Control Limits 33-122         EPA 8082           ND         0.50         EPA 8082	ND         0.50         EPA 8082         9-14-09           ND	ND         0.50         EPA 8082         9-14-09         9-15-09           Percent Recovery         Control Limits         101         33-122         9-14-09         9-15-09           ND         0.50         EPA 8082         9-14-09         9-15-09           ND         0.50         EPA 8082

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6-19					
Laboratory ID:	08-197-23					
Aroclor 1016	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1221	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1232	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1242	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1248	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1254	1.2	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1260	0.73	0.50	EPA 8082	9-14-09	9-15-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	93	33-122				
Client ID:	KM09-6-20					
Laboratory ID:	08-197-24					
Aroclor 1016	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1221	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1232	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1242	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1248	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1254	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1260	ND	0.50	EPA 8082	9-14-09	9-15-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	87	33-122				
Client ID:	KM09-6-21					
Laboratory ID:	08-197-25					
Aroclor 1016	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1221	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1232	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1242	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1248	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1254	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1260	0.66	0.50	EPA 8082	9-14-09	9-15-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	103	33-122				

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6-22					
Laboratory ID:	08-197-26					
Aroclor 1016	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1221	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1232	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1242	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1248	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1254	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1260	0.61	0.50	EPA 8082	9-14-09	9-15-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	106	33-122				
Client ID:	KM09-6-23					
Laboratory ID:	08-197-27					
Aroclor 1016	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1221	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1232	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1242	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1248	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1254	13	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1260	5.5	0.50	EPA 8082	9-14-09	9-15-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	105	33-122				
Client ID:	KM09-6-24					
Laboratory ID:	08-197-28					
Aroclor 1016	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1221	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1232	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1242	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1248	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1254	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1260	0.91	0.50	EPA 8082	9-14-09	9-15-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	97	33-122				

# PCBs by EPA 8082 QUALITY CONTROL

Matrix: Solids Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0914S1					
Aroclor 1016	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1221	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1232	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1242	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1248	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1254	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1260	ND	0.50	EPA 8082	9-14-09	9-15-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	94	33-122				

					Source	Pe	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	08-2	13-02									
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	4.56	4.31	5.00	5.00	ND	91	86	24-125	6	18	
Surrogate:											
DCB						92	87	33-122			

6



#### **Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

 ${\sf H}$  - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical \_\_\_\_\_

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit

**RPD** - Relative Percent Difference

Page 2 of M	08-197	Requested Analysis		57.	/ A (8)	2 80817 17318 161815 161815	28082 Jes by MAPO MAPO MAPO MAPO MAPO MAPO MAPO MAPO	PCBs P Pesticid Total R TCLP N TCLP N TCLP N											Comments/Special/Instructions	U= centre dut	- CALLER 9/10/03. DB.	Charles 1			*
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A A Dusite	Environmental	Phone: (425) 883-3881 • Fax: (425) 885-4603 Commany:	AMEL Georgerich	Project Number: ガザんクス, 00 0	Project Name: Kelly - Maore	Project Manager:	Sampled by: C. DOWMAN /C. BROWN	Sam	10-9-60WX 1	2 KIND9-6A-COMP	3 KM09-6-02	4 KMO9-6-03	5 KMO9-6-84	6 Km 29-6-05	7 Kmog-6-06	8 KMO9-6-07	9 KM B9-6B-COMP	10 KMB1-6-08	Belincuiched hu	Ponninguistica by		Helinquished by	Received by C	Received by	

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Laboratory Reference No. 0908-208



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

September 8, 2009

Tasya Gray AMEC Geomatrix Consultants, Inc. One Union Square 600 University Street, Suite 1020 Seattle, WA 98101

Re: Analytical Data for Project 14697.000 Laboratory Reference No. 0908-208

Dear Tasya:

Enclosed are the analytical results and associated quality control data for samples submitted on August 27, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

Date of Report: September 8, 2009 Samples Submitted: August 27, 2009 Laboratory Reference: 0908-208 Project: 14697.000

### **Case Narrative**

Samples were collected on August 27, 2009, and received by the laboratory on August 27, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

#### PCBs EPA 8082 Analysis

The surrogate recovery for the Method Blank (188%) and the sample EB-02-082709 (196%) was above the quality control limits of 39 – 128%. Since the sample was non-detect for PCBs and the surrogate recoveries showed high bias, no further action was performed.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6F-COMP					
Laboratory ID:	08-208-02					
Aroclor 1016	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1221	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1232	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1242	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1248	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1254	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1260	ND	0.20	EPA 8082	9-1-09	9-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	96	33-122				
Client ID:	KM09-6G-COMP					
Laboratory ID:	08-208-09					
Aroclor 1016	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1221	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1232	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1242	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1248	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1254	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1260	ND	0.20	EPA 8082	9-1-09	9-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	94	33-122				
Client ID:	KM09-6H-COMP					
Laboratory ID:	08-208-18					
Aroclor 1016	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1221	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1232	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1242	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1248	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1254	0.33	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1260	0.70	0.20	EPA 8082	9-1-09	9-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	104	33-122				

	Desch	501		Date	Date	-
Analyte Client ID:	Result KM09-6I-COMP	PQL	Method	Prepared	Analyzed	Flags
Laboratory ID:	08-208-28					
Aroclor 1016	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1221	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1232	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1242	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1248	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1254	0.36	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1260	0.72	0.20	EPA 8082	9-1-09	9-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	97	33-122				
Client ID:	KM09-7A-COMP					
Laboratory ID:	08-208-37					
Aroclor 1016	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1221	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1232	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1242	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1248	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1254	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1260	ND	0.20	EPA 8082	9-1-09	9-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	97	33-122				
Client ID:	KM09-7B-COMP					
Laboratory ID:	08-208-47					
Aroclor 1016	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1221	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1221 Aroclor 1232	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1232	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1242 Aroclor 1248	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1240 Aroclor 1254	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1260	ND	0.20	EPA 8082	9-1-09 9-1-09	9-2-09	
Surrogate:	Percent Recovery	Control Limits		5-1-05	5-2-03	
DCB	99	33-122				
	33	33-122				

# PCBs by EPA 8082 QUALITY CONTROL

Matrix: Solids Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0901S1					
Aroclor 1016	ND	0.020	EPA 8082	9-1-09	9-1-09	
Aroclor 1221	ND	0.020	EPA 8082	9-1-09	9-1-09	
Aroclor 1232	ND	0.020	EPA 8082	9-1-09	9-1-09	
Aroclor 1242	ND	0.020	EPA 8082	9-1-09	9-1-09	
Aroclor 1248	ND	0.020	EPA 8082	9-1-09	9-1-09	
Aroclor 1254	ND	0.020	EPA 8082	9-1-09	9-1-09	
Aroclor 1260	ND	0.020	EPA 8082	9-1-09	9-1-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	92	33-122				

					Source	Per	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	08-22	21-02									
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.537	0.515	0.500	0.500	ND	107	103	24-125	4	18	
Surrogate:											
DCB						101	96	33-122			

Matrix: Water Units: ug/L (ppb)

emie: eg/2 (ppe)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	EB-02-082709					
Laboratory ID:	08-208-35					
Aroclor 1016	ND	0.099	EPA 8082	9-1-09	9-2-09	
Aroclor 1221	ND	0.099	EPA 8082	9-1-09	9-2-09	
Aroclor 1232	ND	0.099	EPA 8082	9-1-09	9-2-09	
Aroclor 1242	ND	0.099	EPA 8082	9-1-09	9-2-09	
Aroclor 1248	ND	0.099	EPA 8082	9-1-09	9-2-09	
Aroclor 1254	ND	0.099	EPA 8082	9-1-09	9-2-09	
Aroclor 1260	ND	0.099	EPA 8082	9-1-09	9-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	196	39-128				Q

# PCBs by EPA 8082 QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0901W1					
Aroclor 1016	ND	0.050	EPA 8082	9-1-09	9-2-09	
Aroclor 1221	ND	0.050	EPA 8082	9-1-09	9-2-09	
Aroclor 1232	ND	0.050	EPA 8082	9-1-09	9-2-09	
Aroclor 1242	ND	0.050	EPA 8082	9-1-09	9-2-09	
Aroclor 1248	ND	0.050	EPA 8082	9-1-09	9-2-09	
Aroclor 1254	ND	0.050	EPA 8082	9-1-09	9-2-09	
Aroclor 1260	ND	0.050	EPA 8082	9-1-09	9-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	188	39-128				Q

					Source	Pe	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB09	01W1									
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.405	0.453	0.500	0.500	N/A	81	91	58-113	11	11	
Surrogate:											
DCB						81	89	39-128			



#### **Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- Y Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

	IN A DUSITE	Chain of C	Custody	• .	Pageof
	Environmental Inc.	Turnaround Request	Laboratory Number:	÷	08-208
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<u>ل</u> ت.	Project Number:		80928		হায
<u> </u> "	Project Name.	ard (7		A	d-1
<u> "-</u>	Project Manager	(TPH analysis 5 working days)	TEX 260B Volatii	1808 1318 \ 2818 \ 2819N	
100	Sampled by: C. DOWMAN/C. Brun	(other)	8 yd se	by 808 by des by AADF ADF Metals Metals	isture of C
	ativiti Samole dentification	Date Time ±01 Samuleo Samuleo Matrix Cooli	ЧТШ ИМТР Volatile Наюде Наюде	Pestici Total F Total F	Н
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1.	X Knog -6K-Comp	1 0801 0 1-802			X
ψ <u></u>	3 Km09-6-29	20th 0 2000			
	4 Km9-6-39	2017-1 0 H/SO			X
14	5 KM09-6-40	1500 S 1-402			
	( KM09-60-41	02m 0 1-400			X
	7 Kmpg-(0-42	CA2A 1 1-403			×
<u> </u>	X Km09-6-43	845 0 1-402			×
<u> </u>	2 KMO9-66-COMP	208-JO LAR			$\rightarrow$
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Sampled by: C. Maruman C. Phonulu	(other)						2808 yı			ketals	· · · ·	p 8 t			şinte
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rigesi number.	C 2 Day 3 Day	82605		
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	1015 0		J	X
23 KM 09-6-56	ଚ			X
24 KIMO9-6-57	1025 0 r4 er			
25 KM09-6-58	1030 0 1-4es			X
26 KM09-6-59	0			
27 KM09-6-60	1040 0 1-40E			
~ -	1047 0 1-802			
28 Kmog-6-61	1047 0 1-42			×
30 KMO9-6-62	V 1051 0 1-407			
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Almee Gerwathix	Same Day 1 Day				
Project Number:	2 Day     3 Day	80928			
Project Name: Le//u Mcore	) ard	<b>0</b> 02	A		
Project Manager: J		260B Volatile 28 Vd	41808 /1518 Vletals		
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32 KM09-6-64					
33 KINOQ-(0-(05	117 O HOZ				•
34/2MOQ - 6-66	201-10 5111			X	
35 68-02-082709	1210 M 1-12				
26 KM09-7-02	201-1 0 +27			X	
37 KMOG-7A-COMP	20g-1 0 th24		X		
38 KM09-7-02	1258 0 1-4ed			$\times$	
39 KM09-7-03	28h-1 0 2921			X	
40 Kmod-7-04	V 1387 0 1-402			X	
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Sampled by: C1 DOWMAN / C. BRANN	(other)	H-D× H-C×/E		λq səp		elsteM 9881 v	<b>(</b> 7)	sture
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Khag.	- 0						X	
42 RM00-7-06	320 O	20/					X	
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44 KMM-7-08	330 0 1-	-402					X	
45 KMO9-7-09	1334 8 1-	-4~5					X	
46 KM29-7-10	O	1-40E					Х	
47 KIN09-7B-COLMP	1348 0 1-8	208-1		$\prec$			~	
48 KIMOG-7-11	1357 0 1-1	1-402					$\times$	
49 KN09-7-12	1 Hac 0 1-1	1-405					X	
SI KMODITIS	0						X	
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Laboratory Reference No. 0908-208B



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

September 16, 2009

Tasya Gray AMEC Geomatrix Consultants, Inc. One Union Square 600 University Street, Suite 1020 Seattle, WA 98101

Re: Analytical Data for Project 14697.000 Laboratory Reference No. 0908-208B

Dear Tasya:

Enclosed are the analytical results and associated quality control data for samples submitted on August 27, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely.

David Baumeister Project Manager

Enclosures

Date of Report: September 16, 2009 Samples Submitted: August 27, 2009 Laboratory Reference: 0908-208B Project: 14697.000

#### **Case Narrative**

Samples were collected on August 27, 2009, and received by the laboratory on August 27, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6-52					
Laboratory ID:	08-208-19					
Aroclor 1016	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1221	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1232	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1242	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1248	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1254	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1260	ND	0.50	EPA 8082	9-12-09	9-14-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	103	33-122				
Client ID:	KM09-6-53					
Laboratory ID:	08-208-20					
Aroclor 1016	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1221	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1232	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1242	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1248	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1254	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1260	ND	0.50	EPA 8082	9-12-09	9-14-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	99	33-122				
Client ID:	KM09-6-54					
Laboratory ID:	08-208-21					
Aroclor 1016	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1221	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1232	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1242	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1248	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1254	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1260	0.60	0.50	EPA 8082	9-12-09	9-14-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	100	33-122				

onita. Ing/Ng (ppin)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6-55					
Laboratory ID:	08-208-22					
Aroclor 1016	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1221	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1232	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1242	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1248	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1254	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1260	ND	0.50	EPA 8082	9-12-09	9-14-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	87	33-122				
Client ID:	KM09-6-56					
Laboratory ID:	08-208-23					
Aroclor 1016	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1221	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1232	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1242	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1248	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1254	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1260	ND	0.50	EPA 8082	9-12-09	9-14-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	85	33-122				
Client ID:	KM09-6-57					
Laboratory ID:	08-208-24					
Aroclor 1016	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1221	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1232	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1242	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1248	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1254	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1260	ND	0.50	EPA 8082	9-12-09	9-14-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	91	33-122				

onits. ing/tg (ppin)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6-58					
Laboratory ID:	08-208-25					
Aroclor 1016	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1221	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1232	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1242	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1248	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1254	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1260	ND	0.50	EPA 8082	9-12-09	9-14-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	97	33-122				
Client ID:	KM09-6-59					
Laboratory ID:	08-208-26					
Aroclor 1016	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1221	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1232	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1242	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1248	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1254	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1260	1.5	0.50	EPA 8082	9-12-09	9-14-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	107	33-122				
Client ID:	KM09-6-60					
Laboratory ID:	08-208-27					
Aroclor 1016	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1221	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1232	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1242	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1248	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1254	1.7	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1260	3.2	0.50	EPA 8082	9-12-09	9-14-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	112	33-122				

onits. ing/tg (ppin)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6-61					
Laboratory ID:	08-208-29					
Aroclor 1016	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1221	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1232	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1242	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1248	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1254	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1260	ND	0.50	EPA 8082	9-12-09	9-14-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	110	33-122				
Client ID:	KM09-6-62					
Laboratory ID:	08-208-30					
Aroclor 1016	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1221	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1232	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1242	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1248	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1254	1.9	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1260	3.5	0.50	EPA 8082	9-12-09	9-14-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	102	33-122				
Client ID:	KM09-6-63					
Laboratory ID:	08-208-31					
Aroclor 1016	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1221	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1232	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1242	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1248	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1254	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1260	ND	0.50	EPA 8082	9-12-09	9-14-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	101	33-122				

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6-64					
Laboratory ID:	08-208-32					
Aroclor 1016	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1221	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1232	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1242	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1248	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1254	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1260	ND	0.50	EPA 8082	9-12-09	9-14-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	96	33-122				
Client ID:	KM09-6-65					
Laboratory ID:	08-208-33					
Aroclor 1016	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1221	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1232	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1242	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1248	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1254	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1260	ND	0.50	EPA 8082	9-12-09	9-14-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	113	33-122				
Client ID:	KM09-6-66					
Laboratory ID:	08-208-34					
Aroclor 1016	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1221	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1232	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1242	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1248	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1254	ND	0.50	EPA 8082	9-12-09	9-14-09	
Aroclor 1260	ND	0.50	EPA 8082	9-12-09	9-14-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	106	33-122				

# PCBs by EPA 8082 QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0912S1					
Aroclor 1016	ND	0.050	EPA 8082	9-12-09	9-14-09	
Aroclor 1221	ND	0.050	EPA 8082	9-12-09	9-14-09	
Aroclor 1232	ND	0.050	EPA 8082	9-12-09	9-14-09	
Aroclor 1242	ND	0.050	EPA 8082	9-12-09	9-14-09	
Aroclor 1248	ND	0.050	EPA 8082	9-12-09	9-14-09	
Aroclor 1254	ND	0.050	EPA 8082	9-12-09	9-14-09	
Aroclor 1260	ND	0.050	EPA 8082	9-12-09	9-14-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	96	33-122				

					Source	Pe	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-1	00-01									
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.516	0.476	0.500	0.500	ND	103	95	24-125	8	18	
Surrogate:											
DCB						70	101	33-122			



#### **Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

 ${\sf H}$  - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical \_\_\_\_\_

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit

**RPD** - Relative Percent Difference

Environmental Inc.		Tumaround F (In Working)	leouest days)	Laboratory Number:	ory Ni	umbe	s an saith saith Saith Saith	•.	11			0	-20	$\infty$
Phone: (425) 883-3861 • Fax: (425) 885-4603 Commande:	503	(Check One)	ne)					ecue	10515	Anellys	ଔଷ			
AMEC GRAMATIX	Sa	☐ Same Day	1 Day								000000000000000000000000000000000000000	BANK CONTRACTOR		
Project Number:	Day 2 Day	ay ,	□ 3 Day		8095				8. / #19. j	<u>,</u>	01	81		
Project Name.	t Sta	undard (7 worł	K Standard (7 working days)		3 vd se		M	۲	ć		0	1.1-	<u>.</u>	
roject Manager	Ē 	PH analysis 5										62J		
Sampled by: C.D.O.W.M. C.D. R. C.		(other)			s by 8	latiles	9728 y	yd set	CEA N	Metals	-991 V	971 179		
Samila Intentification	Date Date Ssmultar	Samiled I	1011 (001)									म् जन		sioM %
T-9-500N	6/22/5	10%0	0 1-402	J			1.4%			Î	1			
X Knoy -GK-COMP		1080	208-10								$\geq$	- 		
3 Km04-6-29		0409	70/20								<b>[</b> . 	$\times$		
		0814	23h-1 0											
OH-9-6-MO		0220	2011-1 0									$\sim$	•	
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7 Kmgg- (0-42		662	1-402									<i>&gt;</i>		
X Km09-6-43		845	20h-10	÷										
2 KMO9-66-COMP		HR HR	208-J D								$\times$			
HH-di-PONY 0	$\mathbb{A}$	153	0 1-407								<b>\</b>	$\sum_{i}$		
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Environmental Inc.	Turnaround Request (in working days)	Laboratory Number:		08-208
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Amec Geomotick	Same Day 1 Day			
14/697.000	C 2 Day C 3 Day	80928	······	ञ्स
Project Name, Kelly - Meore	Standard (7 working days)	۵0۲	A	-42
Project Manager	ays)	260B Volatile 28 vd	41808 1518 81518 815191	Z89
in C. Brown	(other)	H-Gx/E xD-H batad batad batiles batad	by 8083 by 3064 by Netals Metals by 1664	Þ! 8 t/
mple itentitieation	Date FIIme #01 Sampled Matrix Control 2	ЧТWИ Volatile Чаюде Уолати	Pestici Total F Total F	10W %
KMO9-(0-45	3/27/0905 0 1-402			
12 KMO9-6-46	1 0915 0 1-40g			
13 KMO9-6-47	0920 U 1-402			
14 KMOG-U-48	0926 O 1-402			
15 12M09-6-49	09.53 0 1-402			
16 KM09-6-50	0		·	X
17 KMOG-6-51	0943 0 1-408			X
18 KM 09-6H-COMD	0955 O 1.802			
19 KNO9-6-52	0			
N KM09-6-53	0			
Relinquished by (Wo Blog,		8/77/09 212	O - Concertation	e dust
Received by Review Kill	Sucerd 1	127693	RININA 910 14 23	1,4.22
Relinquished by	Speed	127	What was	
Received by	686	0161 80/108		
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in A Dusite	Chain of C	Custody		Page 4 of 6
Environmental Inc.	Iumaround Request ((in working days)	Laboratory Number:		08-208
Phone: (425) 883-3881 • Fax: (425) 885-4603 Commany: •	(Check One)		Requested Anglysis	
Alvec Gerwathry	Same Day 1 Day			
Project Number: 14697.000	2 Day 3 Day	80928		
Project Name: Kellly Moore	K Standard (7 working days)	<b>D</b> 02	A	
Project Manager: J	(TPH analysis 5 working days)	by 82	41808 1518 81515 81519	
Sampled by: C.D. LUIMauri C. B. Korum	(other)	H-GX/E	yy 808. Wetals Metals Metals	
Ishtifi Samula filantifi	<b>Date Time</b> # 0f Sampled Sampled Walny Conit	ЧТТШ ЧТТР Volatile Haloge Haloge	Pestici Herbic TCLP	IOM %
31 KM09-10-63	8/17/04/105 O 1-402			
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	117 0 HUDZ			
34/2MOQ~6.66				
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20-2-60WX 92	201-1 Q that			
37 KMOG-7A-COMP	208 O that		X	
38 Kmod-7-02	1253 0 1-403			
39 KM09-7-03	28H-1 0 2021			
40 Kmod-7-04	V 1387 0 1-402			
Relinquished by	ALL P	enter march	DECONCET CLUST	5
<u>3[</u> *	V. V. C. L.		W= WACer	
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<b>MA OnSite</b>	Chain of Cl	Custody		Page S of
Environmental Inc.	Turnaround Request ((n. working days)	Laboratory Number:		08-208
Phone: (425) 883-3881 • Fax: (425) 885-4603 Company:	(Check One)		Requested Analysis	
AMEC GREMATICIX	Same Day 🗌 1 Day			
Project Number: 14697,000		80928		
Project Name: Ve II4~ Moste	K Standard (7 working days)		A	
Project Manager:	(1PH analysis 5 working days)	3TEX 260B Volatii	\r808 r3r8 \ slafalv	
Sampled by: C. DOWIMAN/C. BROWN	(other)	H-Gx/H XO-H 8 yd se by 8 by 8 by 8 bited	(d səbi	əınış T
	<b>10aue Time</b> Sampled Sampled Mature Sonie Z	ЧТWИ ЧТWИ Volatiie	Pestici Total F Total F	10M %
41 KMO9-7-05 81	8/57/9 13/4 Q 1-405			$\sim$
42 Kmog-7-06	1 1320 0 1-402			
	20h-1 Q 5281			$\mathbf{\tilde{X}}$
44 KMM-7-08	330 0 1-402			X
	1334 8 1-4ee			
46 KM29-7-10	1348 0 1-402			X
	208-1 0 3481			
48 KIMOG-7-11	1357 0 1-402			X
49 KN09-7.12	1 1400 0 1-405			
50 KMG9-7-13	0			X
	Company,			
Relinquished by (UD, Floguer	AMC	8/27/09 3:00	Osconcrete	dust.
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<b>MA OnSite</b>	Chain of Custody	ustody		Page 6 of 6
Environmental Inc.	Turnaround Request (in)working days)	Laboratory Number:		08-208
Phone: (425) 883-3881 • Fax: (425) 885-4603 Company:	(Check One)		Requested Analysis	
A Web GOOMOTRIX	Same Day 1 Day			
14697,000	2 Day 3 Day	80928		
Project Name: Kelly Moore	K Standard (7 working days)	00Z	۲	
Project Mahager:	ays)	TEX 2608 ماهژااو 2827	A1808 \1318   slst9	
Sampled by: C. Carlinan C. Drowin	(other)	e/xð-h	y 8082 des by Metals Vetals Vetals	Əinis
Lab (D) Sample Identification	Date Time 401 Samuted Samuted Mature (600)	ЧТWV ЧТWV Volatilé Halogé Halogé	Pestici Total F Total F	ioM %
51 KM09-7-14	8/23/00 1410 0 1-4.5			
52 KN09-7-15	1 1415 O (x462			
53 KMO9-7-16	0			
54 KIMOG-7-17	1425 0 Hulos			
55 KM09-7-18	1 1428 O 1x402			
-		177021-		
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PULCTORS AND A DESCRIPTION	recompany.	Date Tume	Comments/Special Instructions	
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Laboratory Reference No.0908-213



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

September 4, 2009

Tasya Gray AMEC Geomatrix Consultants, Inc. One Union Square 600 University Street, Suite 1020 Seattle, WA 98101

Re: Analytical Data for Project 14697.000 Laboratory Reference No. 0908-213

Dear Tasya:

Enclosed are the analytical results and associated quality control data for samples submitted on August 28, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

Date of Report: September 4, 2009 Samples Submitted: August 28, 2009 Laboratory Reference: 0908-213 Project: 14697.000

#### **Case Narrative**

Samples were collected on August 27 and 28, 2009, and received by the laboratory on August 28, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

#### PCBs EPA 8082 (water) Analysis

The surrogate recovery for the Method Blank (188%) was above the quality control limits of 39 - 128%. Since the sample was non-detect for PCBs and the surrogate recovery showed high bias, no further action was performed.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-7C-COMP					
Laboratory ID:	08-213-01					
Aroclor 1016	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1221	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1232	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1242	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1248	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1254	1.5	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1260	1.1	0.20	EPA 8082	9-1-09	9-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	101	33-122				
Client ID:	KM09-7D-COMP					
Laboratory ID:	08-213-12					
Aroclor 1016	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1221	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1232	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1242	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1248	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1254	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1260	ND	0.20	EPA 8082	9-1-09	9-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	96	33-122				
Client ID:	KM09-7E-COMP					
Laboratory ID:	08-213-20					
Aroclor 1016	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1221	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1232	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1242	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1248	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1254	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1260	ND	0.20	EPA 8082	9-1-09	9-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	97	33-122				

Date of Report: September 4, 2009 Samples Submitted: August 28, 2009 Lab Traveler: 0908-213 Project: 14697.000

## PCBs by EPA 8082

onits. Ing/rtg (ppin)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-8C-COMP					
Laboratory ID:	08-213-46					
Aroclor 1016	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1221	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1232	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1242	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1248	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1254	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1260	ND	0.20	EPA 8082	9-1-09	9-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	98	33-122				
Client ID:	KM09-8D-COMP					
Laboratory ID:	08-213-52					
Aroclor 1016	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1221	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1232	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1242	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1248	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1254	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1260	ND	0.20	EPA 8082	9-1-09	9-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	92	33-122				
Client ID:	KM09-8-Dup					
Laboratory ID:	08-213-53					
Aroclor 1016	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1221	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1232	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1242	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1248	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1254	ND	0.20	EPA 8082	9-1-09	9-2-09	
Aroclor 1260	ND	0.20	EPA 8082	9-1-09	9-2-09	
Surrogate:	Percent Recovery	Control Limits			<u>.</u>	
DCB	98	33-122				

## PCBs by EPA 8082 QUALITY CONTROL

Matrix: Solids Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0901S1					
Aroclor 1016	ND	0.020	EPA 8082	9-1-09	9-1-09	
Aroclor 1221	ND	0.020	EPA 8082	9-1-09	9-1-09	
Aroclor 1232	ND	0.020	EPA 8082	9-1-09	9-1-09	
Aroclor 1242	ND	0.020	EPA 8082	9-1-09	9-1-09	
Aroclor 1248	ND	0.020	EPA 8082	9-1-09	9-1-09	
Aroclor 1254	ND	0.020	EPA 8082	9-1-09	9-1-09	
Aroclor 1260	ND	0.020	EPA 8082	9-1-09	9-1-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	92	33-122				

					Source	Per	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	08-2	21-02									
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.537	0.515	0.500	0.500	ND	107	103	24-125	4	18	
Surrogate:											
DCB						101	96	33-122			

Matrix: Water Units: ug/L (ppb)

eriiter eig = (ppe)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	EB-03-082809					
Laboratory ID:	08-213-30					
Aroclor 1016	ND	0.090	EPA 8082	9-1-09	9-2-09	
Aroclor 1221	ND	0.090	EPA 8082	9-1-09	9-2-09	
Aroclor 1232	ND	0.090	EPA 8082	9-1-09	9-2-09	
Aroclor 1242	ND	0.090	EPA 8082	9-1-09	9-2-09	
Aroclor 1248	ND	0.090	EPA 8082	9-1-09	9-2-09	
Aroclor 1254	ND	0.090	EPA 8082	9-1-09	9-2-09	
Aroclor 1260	ND	0.090	EPA 8082	9-1-09	9-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	113	39-128				

# PCBs by EPA 8082 QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0901W1					
Aroclor 1016	ND	0.050	EPA 8082	9-1-09	9-2-09	
Aroclor 1221	ND	0.050	EPA 8082	9-1-09	9-2-09	
Aroclor 1232	ND	0.050	EPA 8082	9-1-09	9-2-09	
Aroclor 1242	ND	0.050	EPA 8082	9-1-09	9-2-09	
Aroclor 1248	ND	0.050	EPA 8082	9-1-09	9-2-09	
Aroclor 1254	ND	0.050	EPA 8082	9-1-09	9-2-09	
Aroclor 1260	ND	0.050	EPA 8082	9-1-09	9-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	188	39-128				Q

					Source	Pe	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	covery	Limits	RPD	Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB09	01W1									
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.405	0.453	0.500	0.500	N/A	81	91	58-113	11	11	
Surrogate:											
DCB						81	89	39-128			

Matrix: Wipe Units: ug/100cm2

	Decesh	DOL		Date	Date	<b>F</b> lama
	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-8A-Comp					
Laboratory ID:	08-213-31					
Aroclor 1016	ND	0.83	EPA 8082	8-31-09	9-1-09	
Aroclor 1221	ND	0.83	EPA 8082	8-31-09	9-1-09	
Aroclor 1232	ND	0.83	EPA 8082	8-31-09	9-1-09	
Aroclor 1242	ND	0.83	EPA 8082	8-31-09	9-1-09	
Aroclor 1248	ND	0.83	EPA 8082	8-31-09	9-1-09	
Aroclor 1254	ND	0.83	EPA 8082	8-31-09	9-1-09	
Aroclor 1260	ND	0.83	EPA 8082	8-31-09	9-1-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	82	68-125				
Client ID:	KM09-8B-Comp					
Laboratory ID:	08-213-39					
Aroclor 1016	ND	0.83	EPA 8082	8-31-09	9-1-09	
Aroclor 1221	ND	0.83	EPA 8082	8-31-09	9-1-09	
Aroclor 1232	ND	0.83	EPA 8082	8-31-09	9-1-09	
Aroclor 1242	ND	0.83	EPA 8082	8-31-09	9-1-09	
Aroclor 1248	ND	0.83	EPA 8082	8-31-09	9-1-09	
Aroclor 1254	ND	0.83	EPA 8082	8-31-09	9-1-09	
Aroclor 1260	ND	0.83	EPA 8082	8-31-09	9-1-09	
Surrogate:	Percent Recovery	Control Limits				

8

# PCBs by EPA 8082 QUALITY CONTROL

Matrix: Wipe Units: ug/100cm2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0831P1					
Aroclor 1016	ND	0.83	EPA 8082	8-31-09	9-1-09	
Aroclor 1221	ND	0.83	EPA 8082	8-31-09	9-1-09	
Aroclor 1232	ND	0.83	EPA 8082	8-31-09	9-1-09	
Aroclor 1242	ND	0.83	EPA 8082	8-31-09	9-1-09	
Aroclor 1248	ND	0.83	EPA 8082	8-31-09	9-1-09	
Aroclor 1254	ND	0.83	EPA 8082	8-31-09	9-1-09	
Aroclor 1260	ND	0.83	EPA 8082	8-31-09	9-1-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	84	68-125				

					Source	Pe	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	covery	Limits	RPD	Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB08	331P1									
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	8.03	7.70	8.33	8.33	N/A	96	92	86-120	4	5	
Surrogate:											
DCB						84	82	68-125			



#### **Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

 ${\sf H}$  - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical \_\_\_\_\_

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit

**RPD** - Relative Percent Difference

Chain of Custody	In mation of tentests 0 8 - 2 1 3	(Check One) Requested Analysis	1 Day	3 Day	A A A A	D 2560B Volatii by 82 0D / S 2 2 8081, 7 8081, 7 8081, 7 8151 8151	(other by 827 by 808 by 908 by 808 by 908 by	NWTF NWTF Polatii Pestic PAHs PAHs PAHs PAHs PAHs PAHs PAHs Patio Patio	0 [1x802	$ hu  = \sum_{i=1}^{n}  ixu ^{2}$	(450 O /w/62	1457 0 M402	15080 /r 408	0	1516 O Ixyoz	1522 O 1x402	577 O Word X	0	HAPE GRAMMIN BIRDOG 1505 O= CONCRETE LUNIT	Speedy Manger 8/28/9 1505	· · · · / // // // // // // // // // //	2875 X2808 1648			Reviewed by/Date Chromatograms with final report □
MA DUSITE	mental Inc.	Phone: (425) 883-3881 • Fax: (425) 885-4603	Hive COOMONIX Dame Day	Holect Number:	ly Moore		Sampled by C. Drock C. Broch		1 KMO9-7C-Comp 8/27/09/1444		0		5 KM09-7-22	6 KM09-7-23	1 KM09-7-24	8 KINO9-7-25		M KMOG-7-27, W 11	Relinquished by	Received by	Relinquished by		Relinquished by	Received by	Reviewed by/Date

Copy

<b>Environmental Inc.</b> Phone: (425) 883-3881 • Fax: (425) 885-4603	Chain of Custody Intracound Request (In vorking day)) Chool Ond	Page 2	
Company: Project Number: 14697.000 Project Name: Project Manager: Project	Same Day Same Day 2 Day 2 Day 3 Day 1 Day	PeHs by 8270D / SIM Pesticides by 8081A Herbicides by 8151A TOLP Metals (8) TCLP Metals TTCLP Metals HEM by 1664 HEM by 1664	Moisture
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2 KMOG-7D-COMP	$\bigcirc$		
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A A Dusite	Chain of Cu	Custody					Page _	3 ª 7
Environmental Inc.	Turnaround Request	aboratory Number	umber:				08	-213
Phone: (425) 883-3881 • Fax: (425) 885-4603 Company:	(Check One)			Reduc	sicol/	Requested Analysis	0	
Amec Germatrix	Same Day 1 Day							
Project Number. 14697.000	C 2 Day C 3 Day		90928					
Project Name: Kelly Moore	Standard (7 working days)	•	<b>D</b> 02	4				
Project Manager.	ays)	8092	58 yd					
sampled by: C. Dowwan / C. Rifown	(other)	es pà g BH-DX H-GX\I	by 827 by 827 728 by	808 yd Yd sebi	id səbi: AADF	by 166a	<u>P</u>	isture
Lab.D Sample Identification 53	. Date 1 Times 401 Samitled Samitled Matrix Conic 22	TWN Volatil	vimə2				2]]	рW %
21 KM09-7-36 8	812869 826 () KUbz						X	
	$\bigcirc$						X	
20 KMO9-7-38	0						X	
24 KMOG-7-39	0						$\times$	
JS KM09-7-40	O15 O ixtlog						X	
36 KINO9-7-41	C						X	
21 KM09-7-42	2 0 0						$\times$	
28 KM09-7-43	0926 0 1×402						$\times$	
2n LMOG-7-44	0						$\times$	
20 EB-03-082809	V POJE O HIL			$\ge$				
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Chain of Custody	Iumatoundi Request  (In working cays)	(Check One)	Day 1 Day	D	/sis 5 working days) -EX 60B 0datiles -EX 60B 0datiles	XG-XB7 XG- by 82 ated V atiles b atiles b	PCBs by PCBs b	6 [N] -412	1210 W 1-402	1215 IN 1-402	1218 N 1-40	0-1	·	M N	1353 0 1 200	1354 Or 1-4a	$ 1359 $ $O_{T} _{J^{-4eb}}$	Anor Formation Right / Sor	coly Merge	<i><sup>1</sup></i> , <i>1</i>	1021E \$128109 1648	)		Reviewed by/Date CI	DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy
MA OnSite	Environmental Inc.	Phone: (425) 883-3881 • Fax: (425) 885-4603 Company: A	HMEC GERMATIX	>	Project Manager	Sampled by: O NOIA MANI / C R D	الله الم	N1 KM09-B-14 St	42 KM09-8-15	W3 KM09-8-16	44 KM09-Q-17	45 KM09-8-01	46 KM09-8C-COMP	70-8-60MX UN	48 KM09-8-03	49 KMO9-8-04		Relinquished by	Received by	Relinquished by	Received by	Relinquished by	Received by	Reviewed by/Date	SIQ

<b>MA</b> OnSite	Chain of Cu	Custody		Page 6 of 7
Environmental Inc.	Iumaround Request (In working days)	-aboratory Number:		08-213
Phone: (425) 883-3881 • Fax: (425) 885-4603	eck One)		Requested Analysis	
Amer Geowataix	Same Day 1 Day			
_		80928		
Project Name: Kelly - Moore	K Standard (7 working days)	<b>D</b> 02	A	
	(TPH analysis 5 working days)	260B Volatile 28 vd	41808 (1318 ) 21818 )	
C. BROWN	(other)	H-Dx bhated by 8 by 8 by 8 by 8 by 8 by 8 by 8 by 8	des by GRA h des by	770;
Labition Sample (centrification Sample)	ale Time and Solution and Alt	IGTWN IGTWN Volatile Baloge Haloge Semivc	PCBs I Pesticio Total R TCLP I TCLP I	<b>y</b>
0.53	1425 0 1:402			×
CoMP				
53 KMOG- G-DUP				
54 Kmab - 8-19	1430 5 1402			
55 Knog-8-20	$  _{\mathcal{H}} 3\mathcal{H} \circ  _{\mathcal{H}} \mathcal{A}$			$\sim$
56 KMD4-8-21	1439 0    -4ct			X
57 K/MO9-8-22	1/ th / D ]. Huz			Į,
58 KMO9-8-23	1446 0 1-402			X
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Laboratory Reference No.0908-213B



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

September 17, 2009

Tasya Gray AMEC Geomatrix Consultants, Inc. One Union Square 600 University Street, Suite 1020 Seattle, WA 98101

Re: Analytical Data for Project 14697.000 Laboratory Reference No. 0908-213B

Dear Tasya:

Enclosed are the analytical results and associated quality control data for samples submitted on August 28, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

Date of Report: September 17, 2009 Samples Submitted: August 28, 2009 Laboratory Reference: 0908-213B Project: 14697.000

#### **Case Narrative**

Samples were collected on August 27 and 28, 2009, and received by the laboratory on August 28, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-7-19					
Laboratory ID:	08-213-02					
Aroclor 1016	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1221	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1232	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1242	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1248	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1254	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1260	ND	0.50	EPA 8082	9-14-09	9-15-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	92	33-122				
Client ID:	KM09-7-20					
Laboratory ID:	08-213-03					
Aroclor 1016	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1221	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1232	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1242	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1248	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1254	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1260	ND	0.50	EPA 8082	9-14-09	9-15-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	95	33-122				
Client ID:	KM09-7-21					
Laboratory ID:	08-213-04					
Aroclor 1016	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1221	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1232	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1242	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1248	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1254	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1260	ND	0.50	EPA 8082	9-14-09	9-15-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	108	33-122				

## PCBs by EPA 8082

Matrix: Concrete Dust Units: mg/Kg (ppm)

onits. mg/kg (ppm)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-7-22					
Laboratory ID:	08-213-05					
Aroclor 1016	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1221	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1232	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1242	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1248	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1254	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1260	ND	0.50	EPA 8082	9-14-09	9-15-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	93	33-122				
Client ID:	KM09-7-23					
Laboratory ID:	08-213-06					
Aroclor 1016	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1221	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1232	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1242	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1248	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1254	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1260	ND	0.50	EPA 8082	9-14-09	9-15-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	96	33-122				
Client ID:	KM09-7-24					
Laboratory ID:	08-213-07					
Aroclor 1016	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1221	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1232	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1242	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1248	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1254	17	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1260	8.8	0.50	EPA 8082	9-14-09	9-15-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	96	33-122				

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

## PCBs by EPA 8082

Matrix: Concrete Dust Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-7-25					
Laboratory ID:	08-213-08					
Aroclor 1016	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1221	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1232	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1242	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1248	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1254	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1260	ND	0.50	EPA 8082	9-14-09	9-15-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	85	33-122				
Client ID:	KM09-7-26					
Laboratory ID:	08-213-09					
Aroclor 1016	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1221	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1232	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1242	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1248	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1254	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1260	ND	0.50	EPA 8082	9-14-09	9-15-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	106	33-122				
Client ID:	KM09-7-27					
Laboratory ID:	08-213-10					
Aroclor 1016	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1221	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1232	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1242	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1248	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1254	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1260	ND	0.50	EPA 8082	9-14-09	9-15-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	99	33-122				

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

# PCBs by EPA 8082 QUALITY CONTROL

Matrix: Solids Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0914S1					
Aroclor 1016	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1221	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1232	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1242	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1248	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1254	ND	0.50	EPA 8082	9-14-09	9-15-09	
Aroclor 1260	ND	0.50	EPA 8082	9-14-09	9-15-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	94	33-122				

					Source	Pe	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	08-2	13-02									
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	4.56	4.31	5.00	5.00	ND	91	86	24-125	6	18	
Surrogate:											
DCB						92	87	33-122			

6



#### **Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

 ${\sf H}$  - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical \_\_\_\_\_

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit

**RPD** - Relative Percent Difference

<b>MA OnSite</b>	Chain of Custody					Page.	of of
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Laboratory Reference No.0908-230



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

September 4, 2009

Tasya Gray AMEC Geomatrix Consultants, Inc. One Union Square 600 University Street, Suite 1020 Seattle, WA 98101

Re: Analytical Data for Project 14697.000 Laboratory Reference No. 0908-230

Dear Tasya:

Enclosed are the analytical results and associated quality control data for samples submitted on August 31, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

Date of Report: September 4, 2009 Samples Submitted: August 31, 2009 Laboratory Reference: 0908-230 Project: 14697.000

### **Case Narrative**

Samples were collected on August 31, 2009, and received by the laboratory on August 31, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

## PCBs by EPA 8082

Matrix: Concrete Dust Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-8E-Comp					
Laboratory ID:	08-230-01					
Aroclor 1016	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1221	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1232	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1242	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1248	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1254	2.4	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1260	2.3	0.20	EPA 8082	9-3-09	9-3-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	63	33-122				
Client ID:	KM09-8F-Comp					
Laboratory ID:	08-230-09					
Aroclor 1016	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1221	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1232	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1242	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1248	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1254	1.1	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1260	0.91	0.20	EPA 8082	9-3-09	9-3-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	73	33-122				
Client ID:	KM09-8G-Comp					
Laboratory ID:	08-230-16					
Aroclor 1016	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1221	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1232	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1242	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1248	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1254	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1260	7.5	0.20	EPA 8082	9-3-09	9-3-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	58	33-122				

## PCBs by EPA 8082

Matrix: Concrete Dust Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-8H-Comp					
Laboratory ID:	08-230-24					
Aroclor 1016	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1221	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1232	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1242	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1248	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1254	2.7	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1260	1.8	0.20	EPA 8082	9-3-09	9-3-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	74	33-122				
Client ID:	KM09-8I-Comp					
Laboratory ID:	08-230-33					
Aroclor 1016	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1221	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1232	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1242	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1248	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1254	0.64	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1260	0.34	0.20	EPA 8082	9-3-09	9-3-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	65	33-122				
Client ID:	KM09-8J-Comp					
Laboratory ID:	08-230-42					
Aroclor 1016	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1221	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1232	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1242	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1248	ND	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1254	0.23	0.20	EPA 8082	9-3-09	9-3-09	
Aroclor 1260	ND	0.20	EPA 8082	9-3-09	9-3-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	67	33-122				

4

# PCBs by EPA 8082 QUALITY CONTROL

Matrix: Solids Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0902S1					
Aroclor 1016	ND	0.020	EPA 8082	9-3-09	9-3-09	
Aroclor 1221	ND	0.020	EPA 8082	9-3-09	9-3-09	
Aroclor 1232	ND	0.020	EPA 8082	9-3-09	9-3-09	
Aroclor 1242	ND	0.020	EPA 8082	9-3-09	9-3-09	
Aroclor 1248	ND	0.020	EPA 8082	9-3-09	9-3-09	
Aroclor 1254	ND	0.020	EPA 8082	9-3-09	9-3-09	
Aroclor 1260	ND	0.020	EPA 8082	9-3-09	9-3-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	74	33-122				

					Source	Pe	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	covery	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	08-2	30-01									
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	6.41	6.50	5.00	5.00	2.33	82	83	24-125	1	18	
Surrogate:											
DCB						80	78	33-122			

5



#### **Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

 ${\sf H}$  - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical \_\_\_\_\_

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit

**RPD** - Relative Percent Difference

n of Custody	Laboratory Number: 08-230		1 Day	3 Day	A Mit Clo75 VD V	X=TE B7E60B S260B S200D / S S2 S2 S2 S2 S2 S2 S2 S2 S2 S2 S2 S2 S2	XG-H 8 vd 25 9 vd 25 01 21 1 21 2 21 2 2 2 2 2 2 2 2 2 2 2 2 2	иwтp Volatile Pestici Pestici Pestici		Niktloz	X = X = X	) /x462		) 1x46z	) [x(kz			INY RIZILA 1350 DECOMPOSITION CONTRACTORS	3109 350	ノブ	831/09 1555			te
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Laboratory Reference No.0909-003



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

September 9, 2009

Tasya Gray AMEC Geomatrix Consultants, Inc. One Union Square 600 University Street, Suite 1020 Seattle, WA 98101

Re: Analytical Data for Project 14697.000 Laboratory Reference No. 0909-003

Dear Tasya:

Enclosed are the analytical results and associated quality control data for samples submitted on September 1, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

Date of Report: September 9, 2009 Samples Submitted: September 1, 2009 Laboratory Reference: 0909-003 Project: 14697.000

## **Case Narrative**

Samples were collected on August 31 and September 1, 2009, and received by the laboratory on September 1, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

Date of Report: September 9, 2009 Samples Submitted: September 1, 2009 Lab Traveler: 0909-003 Project: 14697.000

# PCBs by EPA 8082

Matrix: Concrete Dust Units: mg/Kg (ppm)

onits. http://g (ppin)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-8K-Comp					
Laboratory ID:	09-003-02					
Aroclor 1016	ND	0.050	EPA 8082	9-4-09	9-8-09	
Aroclor 1221	ND	0.050	EPA 8082	9-4-09	9-8-09	
Aroclor 1232	ND	0.050	EPA 8082	9-4-09	9-8-09	
Aroclor 1242	ND	0.050	EPA 8082	9-4-09	9-8-09	
Aroclor 1248	ND	0.050	EPA 8082	9-4-09	9-8-09	
Aroclor 1254	ND	0.050	EPA 8082	9-4-09	9-8-09	
Aroclor 1260	ND	0.050	EPA 8082	9-4-09	9-8-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	80	33-122				
Client ID:	KM09-8-78					
Laboratory ID:	09-003-12					
Aroclor 1016	ND	50	EPA 8082	9-4-09	9-9-09	U1
Aroclor 1221	ND	50	EPA 8082	9-4-09	9-9-09	U1
Aroclor 1232	ND	50	EPA 8082	9-4-09	9-9-09	U1
Aroclor 1242	ND	10	EPA 8082	9-4-09	9-9-09	
Aroclor 1248	ND	10	EPA 8082	9-4-09	9-9-09	
Aroclor 1254	16	10	EPA 8082	9-4-09	9-9-09	
Aroclor 1260	28	10	EPA 8082	9-4-09	9-9-09	
Surrogate:	Percent Recovery	Control Limits				
DCB		33-122				S
Client ID:	KM09-8-79					
Laboratory ID:	09-003-13					
Aroclor 1016	ND	10	EPA 8082	9-4-09	9-8-09	
Aroclor 1221	ND	10	EPA 8082	9-4-09	9-8-09	
Aroclor 1232	ND	10	EPA 8082	9-4-09	9-8-09	
Aroclor 1242	ND	10	EPA 8082	9-4-09	9-8-09	
Aroclor 1248	ND	10	EPA 8082	9-4-09	9-8-09	
Aroclor 1254	ND	10	EPA 8082	9-4-09	9-8-09	
Aroclor 1260	100	10	EPA 8082	9-4-09	9-8-09	
Surrogate:	Percent Recovery	Control Limits				
DCB		33-122				S

# PCBs by EPA 8082 QUALITY CONTROL

Matrix: Solids Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0904S1					
Aroclor 1016	ND	0.050	EPA 8082	9-4-09	9-8-09	
Aroclor 1221	ND	0.050	EPA 8082	9-4-09	9-8-09	
Aroclor 1232	ND	0.050	EPA 8082	9-4-09	9-8-09	
Aroclor 1242	ND	0.050	EPA 8082	9-4-09	9-8-09	
Aroclor 1248	ND	0.050	EPA 8082	9-4-09	9-8-09	
Aroclor 1254	ND	0.050	EPA 8082	9-4-09	9-8-09	
Aroclor 1260	ND	0.050	EPA 8082	9-4-09	9-8-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	99	33-122				

	_				Source	-	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	e Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-0	03-16									
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	13.0	14.5	0.500	0.500	14.4	NA	NA	24-125	11	18	Α
Surrogate:											
DCB								33-122			S
SPIKE BLANKS											
Laboratory ID:	SB09	904S1									
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.393	0.411	0.500	0.500	N/A	79	82	58-122	4	14	
Surrogate:											
DCB						95	92	33-122			

# PCBs by EPA 8082

Matrix: Water Units: ug/L (ppb)

omio: ug/= (ppo/				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	EB-04-083109					
Laboratory ID:	09-003-11					
Aroclor 1016	ND	0.11	EPA 8082	9-3-09	9-3-09	
Aroclor 1221	ND	0.11	EPA 8082	9-3-09	9-3-09	
Aroclor 1232	ND	0.11	EPA 8082	9-3-09	9-3-09	
Aroclor 1242	ND	0.11	EPA 8082	9-3-09	9-3-09	
Aroclor 1248	ND	0.11	EPA 8082	9-3-09	9-3-09	
Aroclor 1254	ND	0.11	EPA 8082	9-3-09	9-3-09	
Aroclor 1260	ND	0.11	EPA 8082	9-3-09	9-3-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	109	39-128				

# PCBs by EPA 8082 QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0903W1					
Aroclor 1016	ND	0.050	EPA 8082	9-3-09	9-3-09	
Aroclor 1221	ND	0.050	EPA 8082	9-3-09	9-3-09	
Aroclor 1232	ND	0.050	EPA 8082	9-3-09	9-3-09	
Aroclor 1242	ND	0.050	EPA 8082	9-3-09	9-3-09	
Aroclor 1248	ND	0.050	EPA 8082	9-3-09	9-3-09	
Aroclor 1254	ND	0.050	EPA 8082	9-3-09	9-3-09	
Aroclor 1260	ND	0.050	EPA 8082	9-3-09	9-3-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	87	39-128				

					Source	Pe	rcent	Recovery		RPD		
Analyte	Result		Spike Level		Result	Recovery		Limits	RPD	Limit	Flags	
SPIKE BLANKS												
Laboratory ID:	SB09	03W1										
	SB	SBD	SB	SBD		SB	SBD					
Aroclor 1260	0.489	0.479	0.500	0.500	N/A	98	96	58-113	2	11		
Surrogate:												
DCB						97	94	39-128				



#### **Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

<b>MA</b> OnSite	Chain of Custody	ľV .			Pa	Page of	3
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5 KM09-8-72	1 0 2001/198				×		
Et-8-60MX 7	83/10/272 0 1				$\times$		
1-2-8-60HH L	8/31/29/3:18 0 1				.X		
8 KN09-8-75	8/3/0 222 0 1				$\times$		
9 KH09-8-76	8/21/09/2238 0 1				X		
10 KN09-8-77	8/1/60/2:33 0 1				X		
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Laboratory Reference No. 0909-003B



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

September 9, 2009

Tasya Gray AMEC Geomatrix Consultants, Inc. One Union Square 600 University Street, Suite 1020 Seattle, WA 98101

Re: Analytical Data for Project 14697.000 Laboratory Reference No. 0909-003B

Dear Tasya:

Enclosed are the analytical results and associated quality control data for samples submitted on September 1, 2009.

### Please note that the Total Metals data will follow in the final report.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

## **Case Narrative**

Samples were collected on August 31 and September 1, 2009, and received by the laboratory on September 1, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

# PCBs by EPA 8082

Matrix: Concrete Dust Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-D-8					
Laboratory ID:	09-003-15					
Aroclor 1016	ND	0.050	EPA 8082	9-4-09	9-9-09	
Aroclor 1221	ND	0.050	EPA 8082	9-4-09	9-9-09	
Aroclor 1232	ND	0.050	EPA 8082	9-4-09	9-9-09	
Aroclor 1242	ND	0.050	EPA 8082	9-4-09	9-9-09	
Aroclor 1248	ND	0.050	EPA 8082	9-4-09	9-9-09	
Aroclor 1254	0.33	0.050	EPA 8082	9-4-09	9-9-09	
Aroclor 1260	0.40	0.050	EPA 8082	9-4-09	9-9-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	72	33-122				
Client ID:	KM09-D-5					
Laboratory ID:	09-003-16					
Aroclor 1016	ND	5.0	EPA 8082	9-4-09	9-8-09	
Aroclor 1221	ND	5.0	EPA 8082	9-4-09	9-8-09	
Aroclor 1232	ND	5.0	EPA 8082	9-4-09	9-8-09	
Aroclor 1242	ND	5.0	EPA 8082	9-4-09	9-8-09	
Aroclor 1248	ND	5.0	EPA 8082	9-4-09	9-8-09	
Aroclor 1254	17	5.0	EPA 8082	9-4-09	9-8-09	
Aroclor 1260	14	5.0	EPA 8082	9-4-09	9-8-09	
Surrogate:	Percent Recovery	Control Limits				
DCB		33-122				S
Client ID:	KM09-D-2					
Laboratory ID:	09-003-17					
Aroclor 1016	ND	0.050	EPA 8082	9-4-09	9-9-09	
Aroclor 1221	ND	0.050	EPA 8082	9-4-09	9-9-09	
Aroclor 1232	ND	0.050	EPA 8082	9-4-09	9-9-09	
Aroclor 1242	ND	0.050	EPA 8082	9-4-09	9-9-09	
Aroclor 1248	ND	0.050	EPA 8082	9-4-09	9-9-09	
Aroclor 1254	0.25	0.050	EPA 8082	9-4-09	9-9-09	
Aroclor 1260	0.32	0.050	EPA 8082	9-4-09	9-9-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	51	33-122				

## PCBs by EPA 8082

.

Matrix: Concrete Dust Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-D-1					
Laboratory ID:	09-003-18					
Aroclor 1016	ND	0.050	EPA 8082	9-4-09	1-0-00	
Aroclor 1221	ND	0.050	EPA 8082	9-4-09	1-0-00	
Aroclor 1232	ND	0.050	EPA 8082	9-4-09	1-0-00	
Aroclor 1242	ND	0.050	EPA 8082	9-4-09	1-0-00	
Aroclor 1248	ND	0.050	EPA 8082	9-4-09	1-0-00	
Aroclor 1254	0.18	0.050	EPA 8082	9-4-09	1-0-00	
Aroclor 1260	0.31	0.050	EPA 8082	9-4-09	1-0-00	
Surrogate:	Percent Recovery	Control Limits				
DCB	61	33-122				
Client ID:	KM09-D-7					
Laboratory ID:	09-003-19					
Aroclor 1016	ND	1.0	EPA 8082	9-4-09	9-8-09	
Aroclor 1221	ND	1.0	EPA 8082	9-4-09	9-8-09	
Aroclor 1232	ND	1.0	EPA 8082	9-4-09	9-8-09	
Aroclor 1242	ND	1.0	EPA 8082	9-4-09	9-8-09	
Aroclor 1248	ND	1.0	EPA 8082	9-4-09	9-8-09	
Aroclor 1254	2.8	1.0	EPA 8082	9-4-09	9-8-09	
Aroclor 1260	1.6	1.0	EPA 8082	9-4-09	9-8-09	
Surrogate:	Percent Recovery	Control Limits				
DCB		33-122				S

# PCBs by EPA 8082 QUALITY CONTROL

Matrix: Solids Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0904S1					
Aroclor 1016	ND	0.050	EPA 8082	9-4-09	9-8-09	
Aroclor 1221	ND	0.050	EPA 8082	9-4-09	9-8-09	
Aroclor 1232	ND	0.050	EPA 8082	9-4-09	9-8-09	
Aroclor 1242	ND	0.050	EPA 8082	9-4-09	9-8-09	
Aroclor 1248	ND	0.050	EPA 8082	9-4-09	9-8-09	
Aroclor 1254	ND	0.050	EPA 8082	9-4-09	9-8-09	
Aroclor 1260	ND	0.050	EPA 8082	9-4-09	9-8-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	99	33-122				

					Source	Pe	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	covery	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-0	03-16									
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	13.0	14.5	0.500	0.500	14.4	NA	NA	24-125	11	18	Α
Surrogate:											
DCB								33-122			S



#### **Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

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Laboratory Reference No. 0909-054



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

September 17, 2009

Tasya Gray AMEC Geomatrix Consultants, Inc. One Union Square 600 University Street, Suite 1020 Seattle, WA 98101

Re: Analytical Data for Project 14697.000 Laboratory Reference No. 0909-054

Dear Tasya:

Enclosed are the analytical results and associated quality control data for samples submitted on September 4, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

#### **Case Narrative**

Samples were collected on September 4, 2009, and received by the laboratory on September 4, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

#### PCBs EPA 8082 Analysis

The surrogate recovery was outside of control limits on all samples. Because all other surrogate recoveries from the extraction batch were in control and this phenomenon was confined to this sample group, it is believed to be caused by matrix interference. Samples were re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

#### Total Metals EPA 6010B/7471A (solid) Analysis

Due to the high concentrations of Lead and Mercury in the QC sample, the amount spiked was insufficient for meaningful MS/MSD recovery data. The Spike Blank recovery was 99% for Lead and 105% for Mercury.

The Matrix Spike/ Matrix Spike Duplicate recoveries for Barium and Selenium are outside control limits due to matrix interferences. The Spike Blank recoveries were 93% for Barium and 96% for Selenium.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

## PCBs by EPA 8082

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-D-4					
Laboratory ID:	09-054-01					
Aroclor 1016	ND	0.54	EPA 8082	9-12-09	9-15-09	
Aroclor 1221	ND	0.54	EPA 8082	9-12-09	9-15-09	
Aroclor 1232	ND	0.54	EPA 8082	9-12-09	9-15-09	
Aroclor 1242	ND	0.54	EPA 8082	9-12-09	9-15-09	
Aroclor 1248	ND	0.54	EPA 8082	9-12-09	9-15-09	
Aroclor 1254	0.58	0.54	EPA 8082	9-12-09	9-15-09	
Aroclor 1260	1.0	0.54	EPA 8082	9-12-09	9-15-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	155	33-122				Q
Client ID:	KM09-D-3					
Laboratory ID:	09-054-02					
Aroclor 1016	ND	0.11	EPA 8082	9-12-09	9-15-09	
Aroclor 1221	ND	0.11	EPA 8082	9-12-09	9-15-09	
Aroclor 1232	ND	0.11	EPA 8082	9-12-09	9-15-09	
Aroclor 1242	ND	0.11	EPA 8082	9-12-09	9-15-09	
Aroclor 1248	ND	0.11	EPA 8082	9-12-09	9-15-09	
Aroclor 1254	1.7	0.11	EPA 8082	9-12-09	9-15-09	
Aroclor 1260	2.3	0.11	EPA 8082	9-12-09	9-15-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	128	33-122				Q
Client ID:	KM09-D-10					
Laboratory ID:	09-054-03					
Aroclor 1016	ND	0.93	EPA 8082	9-12-09	9-15-09	
Aroclor 1221	ND	0.93	EPA 8082	9-12-09	9-15-09	
Aroclor 1232	ND	0.93	EPA 8082	9-12-09	9-15-09	
Aroclor 1242	ND	0.93	EPA 8082	9-12-09	9-15-09	
Aroclor 1248	ND	0.93	EPA 8082	9-12-09	9-15-09	
Aroclor 1254	14	0.93	EPA 8082	9-12-09	9-15-09	
Aroclor 1260	16	0.93	EPA 8082	9-12-09	9-15-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	154	33-122				Q

#### PCBs by EPA 8082 QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0912S2					
Aroclor 1016	ND	0.050	EPA 8082	9-12-09	9-14-09	
Aroclor 1221	ND	0.050	EPA 8082	9-12-09	9-14-09	
Aroclor 1232	ND	0.050	EPA 8082	9-12-09	9-14-09	
Aroclor 1242	ND	0.050	EPA 8082	9-12-09	9-14-09	
Aroclor 1248	ND	0.050	EPA 8082	9-12-09	9-14-09	
Aroclor 1254	ND	0.050	EPA 8082	9-12-09	9-14-09	
Aroclor 1260	ND	0.050	EPA 8082	9-12-09	9-14-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	94	33-122				

					Source	Pe	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	covery	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-09	91-08									
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.342	0.310	0.500	0.500	ND	68	62	24-125	10	18	
Surrogate:											
DCB						91	84	33-122			

#### TOTAL METALS EPA 6010B/7471A

Date Extracted:	9-9-09
Date Analyzed:	9-9&10-09

- Matrix: Solid Units: mg/kg (ppm)
- Lab ID: 09-054-01 Client ID: **KM09-D-4**

Analyte	Method	Result	PQL
Arsenic	6010B	19	11
Barium	6010B	260	27
Cadmium	6010B	3.9	0.54
Chromium	6010B	400	0.54
Lead	6010B	640	5.4
Mercury	7471A	4.7	2.7
Selenium	6010B	ND	11
Silver	6010B	2.3	0.54

#### TOTAL METALS EPA 6010B/7471A

Date Extracted:	9-9-09
Date Analyzed:	9-9&10-09

- Matrix: Solid Units: mg/kg (ppm)
- Lab ID: 09-054-02 Client ID: **KM09-D-3**

Analyte	Method	Result	PQL
Arsenic	6010B	13	11
Barium	6010B	1400	53
Cadmium	6010B	17	2.1
Chromium	6010B	580	1.1
Lead	6010B	2300	11
Mercury	7471A	21	11
Selenium	6010B	ND	21
Silver	6010B	3.7	1.1

#### TOTAL METALS EPA 6010B/7471A

Date Extracted:	9-9-09
Date Analyzed:	9-9&10-09

Matrix: Solid Units: mg/kg (ppm)

Lab ID:	09-054-03
Client ID:	KM09-D-10

Analyte	Method	Result	PQL
Arsenic	6010B	33	19
Barium	6010B	970	46
Cadmium	6010B	12	0.93
Chromium	6010B	260	0.93
Lead	6010B	2500	9.3
Mercury	7471A	19	9.3
Selenium	6010B	ND	19
Silver	6010B	2.0	0.93

## TOTAL METALS EPA 6010B/7471A METHOD BLANK QUALITY CONTROL

Date Extracted:	9-9-09
Date Analyzed:	9-9&10-09
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: MB0909S3&MB0909S4

Analyte	Method	Result	PQL
Arsenic	6010B	ND	5.0
Barium	6010B	ND	2.5
Cadmium	6010B	ND	0.50
Chromium	6010B	ND	0.50
Lead	6010B	ND	5.0
Mercury	7471A	ND	0.25
Selenium	6010B	ND	10
Silver	6010B	ND	0.50

## TOTAL METALS EPA 6010B/7471A DUPLICATE QUALITY CONTROL

Date Extracted:	9-9-09
Date Analyzed:	9-9&10-09

Matrix: Soil Units: mg/kg (ppm)

Lab ID: 09-003-16

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	90.3	81.9	10	10	
Barium	298	281	6	25	
Cadmium	ND	ND	NA	1.0	
Chromium	147	147	0	5.0	
Lead	1480	1540	5	50	
Mercury	10.1	10.2	1	5.0	
Selenium	ND	ND	NA	10	
Silver	1.49	1.51	2	0.50	

## TOTAL METALS EPA 6010B/7471A MS/MSD QUALITY CONTROL

Date Extracted:	9-9-09
Date Analyzed:	9-9&10-09

Matrix: Soil Units: mg/kg (ppm)

Lab ID: 09-003-16

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	167	76	169	79	2	
Barium	100	369	71	304	5	19	V
Cadmium	50	43.1	86	44.6	89	3	
Chromium	100	239	91	241	94	1	
Lead	250	1450	0	1680	83	15	А
Mercury	0.50	11.5	286	10.0	0	14	А
Selenium	100	68.5	68	81.0	81	17	V
Silver	25	21.2	79	22.6	84	6	

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#### TOTAL MECURY EPA 7471A

Date Extracted:	9-9-09
Date Analyzed:	9-9-09

Matrix: Wipe Units: ug/Wipe

Lab ID: 09-054-04 Client ID: **KM09-S-3** 

Analyte	Method	Result	PQL
Mercury	7471A	1.9	0.50

#### TOTAL MECURY EPA 7471A

Date Extracted:	9-9-09
Date Analyzed:	9-9-09

Matrix: Wipe Units: ug/Wipe

Lab ID: 09-054-05 Client ID: **KM09-S-4** 

Analyte	Method	Result	PQL
Mercury	7471A	0.32	0.25

## TOTAL MECURY EPA 7471A METHOD BLANK QUALITY CONTROL

Date Extracted:	9-9-09
Date Analyzed:	9-9-09

Matrix:	Wipe
Units:	ug/Wipe

Lab ID: MB0909WP1

Analyte	Method	Result	PQL
Mercury	7471A	ND	0.25

## TOTAL MECURY EPA 7471A SB/SBD QUALITY CONTROL

Date Extracted:	9-9-09
Date Analyzed:	9-9-09

Matrix: Wipe Units: ug/Wipe

Lab ID: SB0909WP1

Analyte	Spike Level	SB	Percent Recovery	SBD	Percent Recovery	RPD	Flags
Mercury	0.25	0.268	107	0.263	105	2	

#### % MOISTURE

Date Analyzed:	9-9-09		
Client ID		Lab ID	% Moisture
KM09-D-4		09-054-01	7
KM09-D-3		09-054-02	53
KM09-D-10		09-054-03	46

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#### **Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

 ${\sf H}$  - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical \_\_\_\_\_

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit

**RPD** - Relative Percent Difference

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Laboratory Reference No. 0909-167



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September 24, 2009

Tasya Gray AMEC Geomatrix Consultants, Inc. One Union Square 600 University Street, Suite 1020 Seattle, WA 98101

Re: Analytical Data for Project 14697.000 Laboratory Reference No. 0909-167

Dear Tasya:

Enclosed are the analytical results and associated quality control data for samples submitted on September 17, 2009.

# Please note that the data for the PCBs water analysis is *preliminary* pending re-analysis of the sample.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

1

David Baumeister Project Manager

Enclosures

#### **Case Narrative**

Samples were collected on September 17, 2009, and received by the laboratory on September 17, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

#### PCBs EPA 8082 (solids) Analysis

The surrogate recovery for the Method Blank (129%) and the sample KM09-7-48 (125%) was above the quality control limits of 33 - 122%. Since the sample was non-detect for PCBs and the surrogate recoveries showed high bias, no further action was performed.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

# PCBs by EPA 8082

Matrix: Concrete Dust Units: mg/Kg (ppm)

onits. ing/rkg (ppin)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6-67					
Laboratory ID:	09-167-01					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1242	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1254	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-23-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	98	33-122				
Client ID:	KM09-6-68					
Laboratory ID:	09-167-02					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1242	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1254	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-23-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	118	33-122				
Client ID:	KM09-6-69					
Laboratory ID:	09-167-03					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1242	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1254	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-23-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	92	33-122				

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# PCBs by EPA 8082

Matrix: Concrete Dust Units: mg/Kg (ppm)

onits. mg/kg (ppm)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6-70					
Laboratory ID:	09-167-04					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1242	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1254	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-23-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	102	33-122				
Client ID:	KM09-6-71					
Laboratory ID:	09-167-05					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1242	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1254	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-23-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	92	33-122				
Client ID:	KM09-6-72					
Laboratory ID:	09-167-06					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1242	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1254	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-23-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	96	33-122				

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# PCBs by EPA 8082

Matrix: Concrete Dust Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6-73					
Laboratory ID:	09-167-07					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1242	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1254	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-23-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	106	33-122				
Client ID:	KM09-6-74					
Laboratory ID:	09-167-08					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1242	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1254	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-23-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	99	33-122				
Client ID:	KM09-6-75					
Laboratory ID:	09-167-09					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1242	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1254	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-23-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	115	33-122				

# PCBs by EPA 8082

Matrix: Concrete Dust Units: mg/Kg (ppm)

onits. mg/kg (ppm)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6-76					
Laboratory ID:	09-167-10					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1242	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1254	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-23-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	112	33-122				
Client ID:	KM09-6-77					
Laboratory ID:	09-167-11					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1242	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1254	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-23-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	99	33-122				
Client ID:	KM09-6-78					
Laboratory ID:	09-167-12					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1242	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1254	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-23-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	108	33-122				

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# PCBs by EPA 8082

Matrix: Concrete Dust/Wood Dust Units: mg/Kg (ppm)

onits. http://tg.(ppin)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-7-45					
Laboratory ID:	09-167-13					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1242	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1254	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-23-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	112	33-122				
Client ID:	KM09-7-48					
Laboratory ID:	09-167-17					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1242	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1254	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-24-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	125	33-122				Q
Client ID:	KM09-8-80					
Laboratory ID:	09-167-18					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1242	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1254	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-24-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	98	33-122				

# PCBs by EPA 8082

Matrix: Wood Dust Units: mg/Kg (ppm)

Analyte	Dessel					
	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-8-81					
Laboratory ID:	09-167-19					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1242	0.60	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1254	4.3	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-24-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	108	33-122				
Client ID:	KM09-8-82					
Laboratory ID:	09-167-20					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1242	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1254	2.1	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-24-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	108	33-122				
Client ID:	KM09-8-83					
Laboratory ID:	09-167-22					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1242	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1254	1.7	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-24-09	
Surrogate:	Percent Recovery	Control Limits			· ••	
DCB	104	33-122				

# PCBs by EPA 8082

Matrix: Wood Dust Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-8-84					
Laboratory ID:	09-167-23					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1242	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1254	0.69	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-24-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	119	33-122				
Client ID:	KM09-8-85					
Laboratory ID:	09-167-24					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1242	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1254	ND	0.50	EPA 8082	9-23-09	9-24-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-24-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	100	33-122				

# PCBs by EPA 8082 QUALITY CONTROL

Matrix: Solids Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923S1					
Aroclor 1016	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1221	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1232	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1242	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1248	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1254	ND	0.50	EPA 8082	9-23-09	9-23-09	
Aroclor 1260	ND	0.50	EPA 8082	9-23-09	9-23-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	129	33-122				Q

					Source	Per	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-1	67-01									
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	4.74	5.45	5.00	5.00	ND	95	109	24-125	14	18	
Surrogate:											
DCB						102	117	33-122			

Date of Report: September 24, 2009 Samples Submitted: September 17, 2009 Lab Traveler: 0909-167 Project: 14697.000

# PCBs by EPA 8082

Matrix: Wipe Units: ug/100cm2

Units. ug/100cm2				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-7-46					
Laboratory ID:	09-167-14					
Aroclor 1016	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1221	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1232	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1242	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1248	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1254	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1260	ND	2.0	EPA 8082	9-22-09	9-22-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	108	68-125				
Client ID:	KM09-7-47					
Laboratory ID:	09-167-15					
Aroclor 1016	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1221	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1232	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1242	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1248	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1254	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1260	ND	2.0	EPA 8082	9-22-09	9-22-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	108	68-125				
Client ID:	KM09-7-49					
Laboratory ID:	09-167-16					
Aroclor 1016	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1221	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1232	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1242	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1248	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1254	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1260	ND	2.0	EPA 8082	9-22-09	9-22-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	107	68-125				

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# PCBs by EPA 8082 QUALITY CONTROL

Matrix: Wipe Units: ug/100cm2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0922P1					
Aroclor 1016	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1221	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1232	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1242	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1248	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1254	ND	2.0	EPA 8082	9-22-09	9-22-09	
Aroclor 1260	ND	2.0	EPA 8082	9-22-09	9-22-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	102	68-125				

					Source	Per	cent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS											<u> </u>
Laboratory ID:	SB09	922P1									
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	29.1	28.8	25.0	25.0	N/A	116	115	86-120	1	5	
Surrogate:											
DCB						104	107	68-125			

Date of Report: September 24, 2009 Samples Submitted: September 17, 2009 Lab Traveler: 0909-167 Project: 14697.000

# PCBs by EPA 8082

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	EB09-05-091709					
Laboratory ID:	09-167-25					
Aroclor 1016	ND	0.051	EPA 8082	9-22-09	9-23-09	
Aroclor 1221	ND	0.051	EPA 8082	9-22-09	9-23-09	
Aroclor 1232	ND	0.051	EPA 8082	9-22-09	9-23-09	
Aroclor 1242	ND	0.051	EPA 8082	9-22-09	9-23-09	
Aroclor 1248	ND	0.051	EPA 8082	9-22-09	9-23-09	
Aroclor 1254	ND	0.051	EPA 8082	9-22-09	9-23-09	
Aroclor 1260	ND	0.051	EPA 8082	9-22-09	9-23-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	102	39-128				

# PCBs by EPA 8082 QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0922W1					
Aroclor 1016	ND	0.050	EPA 8082	9-22-09	9-23-09	
Aroclor 1221	ND	0.050	EPA 8082	9-22-09	9-23-09	
Aroclor 1232	ND	0.050	EPA 8082	9-22-09	9-23-09	
Aroclor 1242	ND	0.050	EPA 8082	9-22-09	9-23-09	
Aroclor 1248	ND	0.050	EPA 8082	9-22-09	9-23-09	
Aroclor 1254	ND	0.050	EPA 8082	9-22-09	9-23-09	
Aroclor 1260	ND	0.050	EPA 8082	9-22-09	9-23-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	107	39-128				



#### **Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

 ${\sf K}$  - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

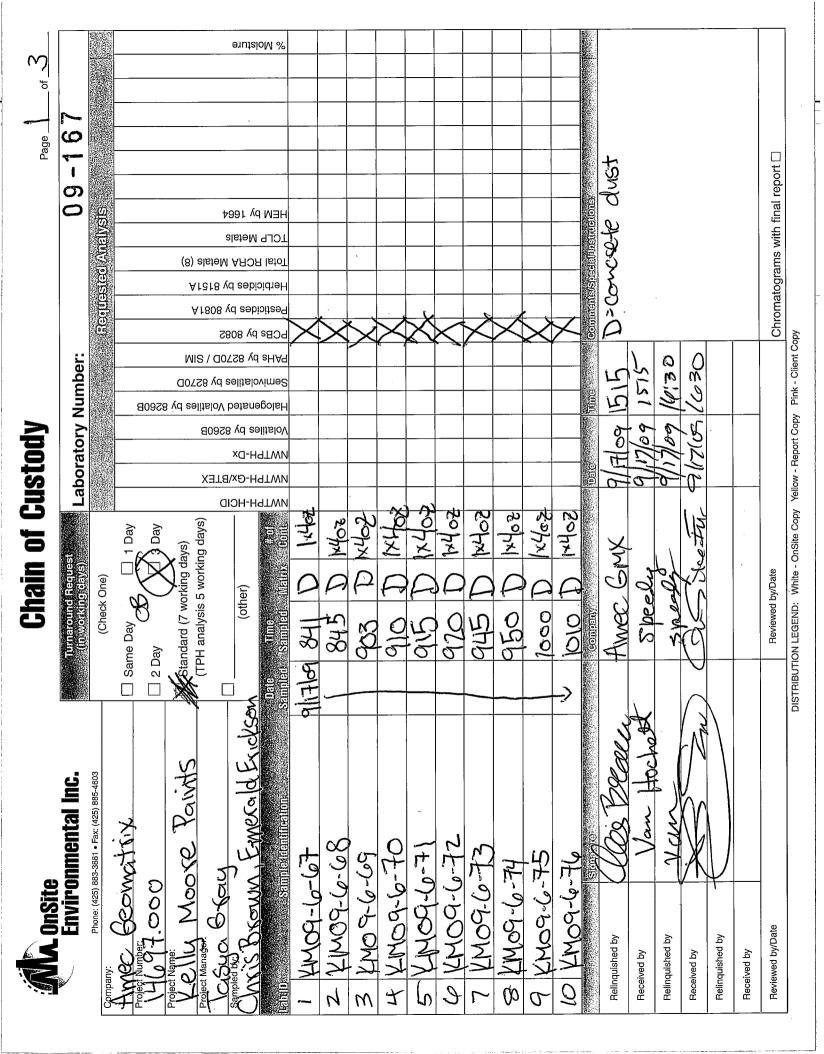
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- Y Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference



<b>MA</b> OnSite Environmental Inc	Chain of C Turnaround Request	Custody						Page 2		
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DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy

Laboratory Reference No. 0910-011



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

October 5, 2009

AMEC Geomatrix Consultants, Inc. One Union Square 600 University Street, Suite 1020 Seattle, WA 98101

Re: Analytical Data for Project 14697 Laboratory Reference No. 0910-011

Dear Taysa:

Enclosed are the analytical results and associated quality control data for samples submitted on October 1, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

### **Case Narrative**

Samples were collected on October 1, 2009, and received by the laboratory on October 1, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

# PCBs by EPA 8082

Matrix: Wipe Units: ug/100cm2

onits. ug/100cm2				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KMI-PLATE 3					
Laboratory ID:	10-011-03					
Aroclor 1016	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1221	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1232	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1242	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1248	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1254	2.7	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1260	ND	2.0	EPA 8082	10-2-09	10-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	101	68-125				
Client ID:	KMI-PLATE 4					
Laboratory ID:	10-011-04					
Aroclor 1016	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1221	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1232	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1242	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1248	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1254	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1260	ND	2.0	EPA 8082	10-2-09	10-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	99	68-125				
Client ID:	KMI-PLATE 5					
Laboratory ID:	10-011-05					
Aroclor 1016	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1221	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1232	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1242	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1248	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1254	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1260	ND	2.0	EPA 8082	10-2-09	10-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	105	68-125				

3

# PCBs by EPA 8082

Matrix: Wipe Units: ug/100cm2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KMI-PLATE 6					
Laboratory ID:	10-011-06					
Aroclor 1016	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1221	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1232	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1242	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1248	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1254	2.8	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1260	ND	2.0	EPA 8082	10-2-09	10-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	104	68-125				

# PCBs by EPA 8082 QUALITY CONTROL

Matrix: Wipe Units: ug/100cm2

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1002P1					
Aroclor 1016	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1221	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1232	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1242	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1248	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1254	ND	2.0	EPA 8082	10-2-09	10-2-09	
Aroclor 1260	ND	2.0	EPA 8082	10-2-09	10-2-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	105	68-125				

					Source	Per	cent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB10	02P1									
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	23.2	22.7	20.0	20.0	N/A	116	114	86-120	2	5	
Surrogate:											
DCB						99	105	68-125			

### TOTAL METALS EPA 6010B/7471A

Date Extracted:	10-2-09
Date Analyzed:	10-2-09

Matrix: Wipe Units: ug/Wipe

Lab ID:	10-011-01
Client ID:	KMI-PLATE 1

Analyte	Method	Result	PQL
Arsenic	6010B	ND	10
Barium	6010B	32	2.5
Cadmium	6010B	ND	0.50
Chromium	6010B	14	0.50
Lead	6010B	180	5.0
Mercury	7471A	1.1	1.0
Selenium	6010B	ND	10
Silver	6010B	ND	0.50

### TOTAL METALS EPA 6010B/7471A

Date Extracted:	10-2-09
Date Analyzed:	10-2-09

Matrix: Wipe Units: ug/Wipe

Lab ID:	10-011-02
Client ID:	KMI-PLATE 2

Analyte	Method	Result	PQL
Arsenic	6010B	ND	10
Barium	6010B	240	2.5
Cadmium	6010B	ND	0.50
Chromium	6010B	22	0.50
Lead	6010B	260	5.0
Mercury	7471A	2.8	1.0
Selenium	6010B	ND	10
Silver	6010B	1.2	0.50

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#### TOTAL METALS EPA 6010B/7471A METHOD BLANK QUALITY CONTROL

Date Extracted:	10-2-09
Date Analyzed:	10-2-09

Matrix:	Wipe
Units:	ug/Wipe

Lab ID: MB1002WP1&MB1002WP2

Analyte	Method	Result	PQL
Arsenic	6010B	ND	10
Barium	6010B	ND	2.5
Cadmium	6010B	ND	0.50
Chromium	6010B	ND	0.50
Lead	6010B	ND	5.0
Mercury	7471A	ND	0.10
Selenium	6010B	ND	10
Silver	6010B	ND	0.50

8

### TOTAL METALS EPA 6010B/7471A SB/SBD QUALITY CONTROL

Date Extracted:	10-2-09
Date Analyzed:	10-2-09

Matrix: Wipe Units: ug/Wipe

Lab ID: SB1002WP1&SB1002WP2

Analyte	Spike Level	SB	Percent Recovery	SBD	Percent Recovery	RPD	Flags
Arsenic	200	185	92	192	96	4	
Barium	100	99.5	100	103	103	3	
Cadmium	100	98.5	98	101	101	3	
Chromium	200	192	96	198	99	3	
Lead	500	465	93	479	96	3	
Mercury	0.25	0.247	99	0.256	102	4	
Selenium	200	178	89	191	95	7	
Silver	50	49.6	99	51.1	102	3	



#### **Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

 ${\sf H}$  - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

 ${\sf K}$  - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- Y Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

Company: Protect Auronalia Stating Day Protect Manage: Protect Manage:	Ministric     Scholetine       Ministric     10-011       Ministric     10-011
Reviewed by/Date	Chromatograms with final report

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Laboratory Reference No. 0910-218



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

November 6, 2009

Tasya Gray AMEC Geomatrix Consultants, Inc. One Union Square 600 University Street, Suite 1020 Seattle, WA 98101

Re: Analytical Data for Project 14697.000 Laboratory Reference No. 0910-218

Dear Tasya:

Enclosed are the analytical results and associated quality control data for samples submitted on October 28, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

Date of Report: November 6, 2009 Samples Submitted: October 28, 2009 Laboratory Reference: 0910-218 Project: 14697.000

#### **Case Narrative**

Samples were collected on October 27, 2009, and received by the laboratory on October 28, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

#### PCBs EPA 8082 Analysis

Sample 10-249-10 was used as the MS/MSD. Due to sample inhomogeneity, the spike recovery of Aroclor 1260 in the MS (147%) was above quality control limits of 24-125%. Since the RPD all other QC associated with this sample batch were within limits, no further action was performed.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

### PCBs by EPA 8082

Matrix: Concrete Dust Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-7F-COMP					
Laboratory ID:	10-218-01					
Aroclor 1016	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1221	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1232	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1242	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1248	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1254	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1260	ND	0.20	EPA 8082	11-3-09	11-3-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	98	33-122				
Client ID:	KM09-6M-COMP					
Laboratory ID:	10-218-06					
Aroclor 1016	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1221	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1232	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1242	0.26	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1248	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1254	1.6	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1260	1.4	0.20	EPA 8082	11-3-09	11-3-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	102	33-122				
Client ID:	KM09-6L-COMP					
Laboratory ID:	10-218-11					
Aroclor 1016	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1221	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1232	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1242	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1248	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1254	0.27	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1260	0.23	0.20	EPA 8082	11-3-09	11-3-09	
Surrogate:	Percent Recovery	Control Limits			<u>.</u>	
DCB	100	33-122				

# PCBs by EPA 8082 QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1103S1					
Aroclor 1016	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1221	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1232	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1242	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1248	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1254	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1260	ND	0.20	EPA 8082	11-3-09	11-3-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	95	33-122				

					Source	Per	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-2	49-10									
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	1.59	1.42	0.500	0.500	0.855	147	113	24-125	11	18	I
Surrogate:											
DCB						104	102	33-122			

### PCBs by EPA 8082

Matrix: Water Units: ug/L (ppb)

ee. e.g, = (ppe)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	EB06-102709					
Laboratory ID:	10-218-16					
Aroclor 1016	ND	0.049	EPA 8082	11-1-09	11-1-09	
Aroclor 1221	ND	0.049	EPA 8082	11-1-09	11-1-09	
Aroclor 1232	ND	0.049	EPA 8082	11-1-09	11-1-09	
Aroclor 1242	ND	0.049	EPA 8082	11-1-09	11-1-09	
Aroclor 1248	ND	0.049	EPA 8082	11-1-09	11-1-09	
Aroclor 1254	ND	0.049	EPA 8082	11-1-09	11-1-09	
Aroclor 1260	ND	0.049	EPA 8082	11-1-09	11-1-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	94	39-128				

# PCBs by EPA 8082 QUALITY CONTROL

Matrix: Water Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1101W1					
Aroclor 1016	ND	0.050	EPA 8082	11-1-09	11-1-09	
Aroclor 1221	ND	0.050	EPA 8082	11-1-09	11-1-09	
Aroclor 1232	ND	0.050	EPA 8082	11-1-09	11-1-09	
Aroclor 1242	ND	0.050	EPA 8082	11-1-09	11-1-09	
Aroclor 1248	ND	0.050	EPA 8082	11-1-09	11-1-09	
Aroclor 1254	ND	0.050	EPA 8082	11-1-09	11-1-09	
Aroclor 1260	ND	0.050	EPA 8082	11-1-09	11-1-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	93	39-128				

					Source	Pe	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	covery	Limits	RPD	Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB11	01W1									
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.482	0.504	0.500	0.500	N/A	96	101	58-113	4	11	
Surrogate:											
DCB						87	90	39-128			



#### **Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

 ${\sf H}$  - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical \_\_\_\_\_

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL PQL - Practical Quantitation Limit

**RPD** - Relative Percent Difference

1 - Cormo 2 80 mais 2 1 2 league	09-7-51 09-6-7-52 09-6-7-6 09-6-7-6 09-6-7-7 09-6-7 09-6-7 09-7 09-7 09-7 09-7 09-7 00-7-7 09-7 00-7 00	09-7-51 09-6-7-52 09-6-7-6 09-6-7-6 09-6-7-7 09-6-7 09-6-7 09-7 09-7 09-7 09-7 09-7 00-7-7 09-7 00-7 00
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39.751 09.751 09.677 09.6.77 09.6.77 09.6.77 09.6.77 09.6.77 09.6.77 09.6.77 09.6.77 09.6.77 007.6.78 110.2 D 1 10.07 D 1 10.07 D 1 10.07 D 1 10.07 D 1 10.7	09-751 09-75M-Cormp 1935 D 1 D X 09-6-77 09-6-77 09-6-77 09-6-79 09-6-79 09-6-79 09-6-79 09-6-79 09-6-79 09-6-79 09-6-79 010-7 D 1 D 1 D 1 D 1 D 1 D 1 D 1 D 1 D 1 D	09-751 09-75M-Cormp 1935 D 1 D X 09-6-77 09-6-77 09-6-77 09-6-79 09-6-79 09-6-79 09-6-79 09-6-79 09-6-79 09-6-79 09-6-79 010-7 D 1 D 1 D 1 D 1 D 1 D 1 D 1 D 1 D 1 D
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Laboratory Reference No. 0910-218B



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

November 18, 2009

Tasya Gray AMEC Geomatrix Consultants, Inc. One Union Square 600 University Street, Suite 1020 Seattle, WA 98101

Re: Analytical Data for Project 14697.000 Laboratory Reference No. 0910-218B

Dear Tasya:

Enclosed are the analytical results and associated quality control data for samples submitted on October 28, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

Date of Report: November 18, 2009 Samples Submitted: October 28, 2009 Laboratory Reference: 0910-218B Project: 14697.000

### **Case Narrative**

Samples were collected on October 27, 2009, and received by the laboratory on October 28, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

# PCBs by EPA 8082

Matrix: Concrete Dust Units: mg/Kg (ppm)

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Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6-80					
Laboratory ID:	10-218-07					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1254	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1260	ND	0.50	EPA 8082	11-17-09	11-18-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	94	33-122				
Client ID:	KM09-6-77					
Laboratory ID:	10-218-08					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1254	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1260	ND	0.50	EPA 8082	11-17-09	11-18-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	87	33-122				
Client ID:	KM09-6-78					
Laboratory ID:	10-218-09					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1254	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1260	ND	0.50	EPA 8082	11-17-09	11-17-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	78	33-122				

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

# PCBs by EPA 8082

Matrix: Concrete Dust Units: mg/Kg (ppm)

Units. hig/kg (ppin)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6-79					
Laboratory ID:	10-218-10					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1254	1.1	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1260	0.79	0.50	EPA 8082	11-17-09	11-17-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	78	33-122				
Client ID:	KM09-6-73					
Laboratory ID:	10-218-12					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1254	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1260	ND	0.50	EPA 8082	11-17-09	11-17-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	81	33-122				
Client ID:	KM09-6-74					
Laboratory ID:	10-218-13					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1254	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1260	ND	0.50	EPA 8082	11-17-09	11-17-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	79	33-122				

4

Matrix: Concrete Dust Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6-75					
Laboratory ID:	10-218-14					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1254	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1260	ND	0.50	EPA 8082	11-17-09	11-17-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	80	33-122				
Client ID:	KM09-6-76					
Laboratory ID:	10-218-15					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1254	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1260	ND	0.50	EPA 8082	11-17-09	11-17-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	93	33-122				

# PCBs by EPA 8082 QUALITY CONTROL

Matrix: Solid Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1117S1					
Aroclor 1016	ND	0.050	EPA 8082	11-17-09	11-18-09	
Aroclor 1221	ND	0.050	EPA 8082	11-17-09	11-18-09	
Aroclor 1232	ND	0.050	EPA 8082	11-17-09	11-18-09	
Aroclor 1242	ND	0.050	EPA 8082	11-17-09	11-18-09	
Aroclor 1248	ND	0.050	EPA 8082	11-17-09	11-18-09	
Aroclor 1254	ND	0.050	EPA 8082	11-17-09	11-18-09	
Aroclor 1260	ND	0.050	EPA 8082	11-17-09	11-18-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	101	33-122				

					Source	Pe	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	11-0	64-01									
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.471	0.418	0.500	0.500	ND	94	84	24-125	12	18	
Surrogate:											
DCB						90	87	33-122			



#### **Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

ustody Page 1 of Z	Laboratory Number: 10-218	Requested Analysis			V S / QC	808 v 827( v 827( v 827(	x/BTT x x y 826 by 80 by	PH-G	NWTI NWTI Volati PCBs PCBs PCBs PCBs PCBs											Determinations comments/special instructions.	1		Too			Chromatograms with final report
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Laboratory Reference No. 0910-249



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

November 6, 2009

Charles Dowman AMEC Geomatrix Consultants, Inc. One Union Square 600 University Street, Suite 1020 Seattle, WA 98101

Re: Analytical Data for Project 14697.000 Laboratory Reference No. 0910-249

Dear Charles:

Enclosed are the analytical results and associated quality control data for samples submitted on October 30, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely.

David Baumeister Project Manager

Enclosures

Date of Report: November 6, 2009 Samples Submitted: October 30, 2009 Laboratory Reference: 0910-249 Project: 14697.000

### **Case Narrative**

Samples were collected on October 30, 2009, and received by the laboratory on October 30, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

### PCBs EPA 8082 Analysis

Sample KM09-6K-COMP was used as the MS/MSD. Due to sample inhomogeneity, the spike recovery of Aroclor 1260 in the MS (147%) was above quality control limits of 24-125%. Since the RPD all other QC associated with this sample batch were within limits, no further action was performed.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Matrix: Soil Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	KM09-6J-COMP	1 GL	Method	Treparea	Analyzeu	T lugo
Laboratory ID:	10-249-02					
Aroclor 1016	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1221	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1232	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1242	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1248	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1254	0.88	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1260	1.3	0.20	EPA 8082	11-3-09	11-3-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	103	33-122				
Client ID:	KM09-6K-COMP					
Laboratory ID:	10-249-10					
Aroclor 1016	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1221	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1232	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1242	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1248	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1254	0.23	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1260	0.86	0.20	EPA 8082	11-3-09	11-3-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	103	33-122				

### PCBs by EPA 8082 QUALITY CONTROL

Matrix: Soil Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1103S1					
Aroclor 1016	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1221	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1232	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1242	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1248	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1254	ND	0.20	EPA 8082	11-3-09	11-3-09	
Aroclor 1260	ND	0.20	EPA 8082	11-3-09	11-3-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	95	33-122				

					Source	Per	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-2	49-10									
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	1.59	1.42	0.500	0.500	0.855	147	113	24-125	11	18	I
Surrogate: DCB						104	102	33-122			
202						104	,52	00 122			



#### **Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

	Chain of Custody	ge of _	۰ <b>۱</b> [
14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com	Turnaround Request [(In Working days)] [Laboratory Number:	10-249	
Company: AMOL Garmate, V	leck One)	Requested Analysis	
Project Number 14 697,000			<u> </u>
Project Name: Kelly Moore	ard (7 working days)	Ą	
Project Manager:	3TEX 260B Volatild 282	2 8081/ 17518 17518 18151/ Metals	
Sampled by Con May	Gx/F Dx hatiles -Dy 8 -Dy 8 Dx Cx/F	808 yy des by AAD Metals Valas	enre
Lab ID Sample Identification	Date     Time     # 0f     Type       Date     Time     # 0f     Type       Sampled     Nampled     Matrix     Conft.       Sampled     Sampled     Matrix     Conft.	PCBs b Pesticic Herbicic TCLP h TCLP h HEM by	sioM %
1 KM09-6-81	Dust 1	×	•
2 KND9-6J-COMP	10/30/04/ O&S6 Duit 1		-
3 Km09-6-82	10/20/10/202 Durk I	× ×	
4 KmG9-6-DUP-			
5 KM09-6-83		× ×	
6 Knog-6-84	10/20/0921 Dece 2-		
7 KMO9-6-85			
8 KMO9-6-86	10/30/61 0936 Duf 2		
5 KM09-6-87	10/20/09 0946 But I	×	
lo kmog-6K-comp			
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<b>AND ONSITE</b> Environmental Inc. Phone: (425) 883-3881 • Fax: (425) 885-4603		Chromotor	ain Gava	Chain of Custody	US <sup>1</sup> abo	<b>Ustody</b> Laboratory Number:	y Nu	mbe							D-2 -2		
Company: AMPEC GEOMATAX Project Number: 1146977 0 00	Same	Day (ch	eck One)	1 Day			809		<u></u>	Requested/Analysis	ested Sted		999 				
Project Name: Kelly-Moo.c Project Manager:	Sta T	K Standard (7 working days) (TPH analysis 5 working days)	orking day 5 workinę	lays)								(0) SIRIA		(			
Sampled by: Company (Entropy Company) Sample (Identified theorem)	 □ Spiller	(oth 11003 - Ssimilleri	(other) (d) ([[[Eltitiz		NMTPH-Gx/B	NMTPH-Dx	Volatiles by 82	Semivolatiles b	PCBs by 8082	3 yd səbicites	Herbicides by	Total RCRA M	4EW by 1664	TUN			% Moisture
KM09-6-38	19/20/00/ 09/5M	0954	Pust	4					<u> </u>					$\times$			
12 KM09-6-39	10/30/94 1006		Dust	4				· · · ·	$\mathbf{X}$					X			
Km09-6-90	19/39/09 10 14	1014	Duct-	4										Ý			
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Laboratory Reference No. 0910-249B



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

November 18, 2009

Charles Dowman AMEC Geomatrix Consultants, Inc. One Union Square 600 University Street, Suite 1020 Seattle, WA 98101

Re: Analytical Data for Project 14697.000 Laboratory Reference No. 0910-249B

Dear Charles:

Enclosed are the analytical results and associated quality control data for samples submitted on October 30, 2009.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

Enclosures

Date of Report: November 18, 2009 Samples Submitted: October 30, 2009 Laboratory Reference: 0910-249B Project: 14697.000

## **Case Narrative**

Samples were collected on October 30, 2009, and received by the laboratory on October 30, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Matrix: Concrete Dust Units: mg/Kg (ppm)

onits. http://tg.(ppin)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6-81					
Laboratory ID:	10-249-01					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1254	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1260	ND	0.50	EPA 8082	11-17-09	11-17-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	94	33-122				
Client ID:	KM09-6-82					
Laboratory ID:	10-249-03					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1254	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1260	ND	0.50	EPA 8082	11-17-09	11-17-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	98	33-122				
Client ID:	KM09-6-DUP					
Laboratory ID:	10-249-04					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1254	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1260	ND	0.50	EPA 8082	11-17-09	11-17-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	94	33-122				

3

Matrix: Concrete Dust Units: mg/Kg (ppm)

onits. http://tg.(ppin)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6-83					
Laboratory ID:	10-249-05					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1254	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1260	ND	0.50	EPA 8082	11-17-09	11-17-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	91	33-122				
Client ID:	KM09-6-84					
Laboratory ID:	10-249-06					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1254	1.6	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1260	2.6	0.50	EPA 8082	11-17-09	11-17-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	78	33-122				
Client ID:	KM09-6-85					
Laboratory ID:	10-249-07					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1254	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1260	ND	0.50	EPA 8082	11-17-09	11-17-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	73	33-122				

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Matrix: Concrete Dust Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6-86					
Laboratory ID:	10-249-08					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1254	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1260	ND	0.50	EPA 8082	11-17-09	11-17-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	92	33-122				
Client ID:	KM09-6-87					
Laboratory ID:	10-249-09					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1254	0.58	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1260	ND	0.50	EPA 8082	11-17-09	11-17-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	84	33-122				
Client ID:	KM09-6-88					
Laboratory ID:	10-249-11					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1254	ND	0.50	EPA 8082	11-17-09	11-17-09	
Aroclor 1260	ND	0.50	EPA 8082	11-17-09	11-17-09	
Surrogate:	Percent Recovery	Control Limits		-		

5

Matrix: Concrete Dust Units: mg/Kg (ppm)

onits. Ing/kg (ppin)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6-89					
Laboratory ID:	10-249-12					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1254	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1260	ND	0.50	EPA 8082	11-17-09	11-18-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	93	33-122				
Client ID:	KM09-6-90					
Laboratory ID:	10-249-13					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1254	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1260	2.8	0.50	EPA 8082	11-17-09	11-18-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	89	33-122				
Client ID:	KM09-6-91					
Laboratory ID:	10-249-14					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1254	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1260	ND	0.50	EPA 8082	11-17-09	11-18-09	
Surrogate:	Percent Recovery	Control Limits		-		
DCB	98	33-122				

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Matrix: Concrete Dust Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	KM09-6-92					
Laboratory ID:	10-249-15					
Aroclor 1016	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1221	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1232	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1242	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1248	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1254	ND	0.50	EPA 8082	11-17-09	11-18-09	
Aroclor 1260	ND	0.50	EPA 8082	11-17-09	11-18-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	100	33-122				

# PCBs by EPA 8082 QUALITY CONTROL

Matrix: Solids Units: mg/Kg (ppm)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1117S2					
Aroclor 1016	ND	0.050	EPA 8082	11-17-09	11-17-09	
Aroclor 1221	ND	0.050	EPA 8082	11-17-09	11-17-09	
Aroclor 1232	ND	0.050	EPA 8082	11-17-09	11-17-09	
Aroclor 1242	ND	0.050	EPA 8082	11-17-09	11-17-09	
Aroclor 1248	ND	0.050	EPA 8082	11-17-09	11-17-09	
Aroclor 1254	ND	0.050	EPA 8082	11-17-09	11-17-09	
Aroclor 1260	ND	0.050	EPA 8082	11-17-09	11-17-09	
Surrogate:	Percent Recovery	Control Limits				
DCB	94	33-122				

				Source	Pe	rcent	Recovery		RPD	
Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
11-1	02-03									
MS	MSD	MS	MSD		MS	MSD				
0.326	0.349	0.500	0.500	ND	65	70	24-125	7	18	
					68	72	33-122			
	11-1 MS		11-102-03 MS MSD MS	11-102-03 MS MSD MS MSD	ResultSpike LevelResult11-102-03MSMSD	Result         Spike Level         Result         Rec           11-102-03	Result         Spike Level         Result         Recovery           11-102-03	Result         Spike Level         Result         Recovery         Limits           11-102-03	Result         Spike Level         Result         Recovery         Limits         RPD           11-102-03	Result         Spike Level         Result         Recovery         Limits         RPD         Limit           11-102-03



#### **Data Qualifiers and Abbreviations**

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in the diesel range are impacting the lube oil range result.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Ζ-

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

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APPENDIX C

Waste Disposal Records

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# CERTIFICATE OF DISPOSAL

#### December 14,2009

KELLY MOORE PAINTS 5400 AIRPORT WAY SOUTH SEATTLE, WA 98108

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number 002068550 FLE/ was received by U.S. Ecology, Inc., on<u>11/10/2009</u>. The waste(s) were subsequently treated, if required by 40 CFR Part 268 and U.S. Ecology's permits and disposed of by <u>11/10/2009</u> in accordance with permits and laws regulating this facility.

Reference Number: 09111016787-002068550 FLE-1-1

Material: 1 ROLL-OFF Process: Encapsulation

Facility: U.S. ECOLOGY IDAHO, INC. 20400 LEMLEY ROAD GRAND VIEW, ID 83624 EPA ID: IDD073114654

Waste Type: RCRA HAZARDOUS WASTE

Customer: RINECO CHEMICAL

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR



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X       NAJORZ, Hazardous waste, liquid, n.o.s. (Acetone, Toluene), S; BG III       DR       G F003         X       * RQ, UNIZ63, Waste Paint, J, PG II. (Dool @ 100 lbs)       DH       GST       D001 D035 F003         14. Special Handleg Infinition and Additional Information       1.0 9210-17317 BRG#171 Tank Binnes Water (13) T       D11 D035 F003       D001 D035 F003         14. Special Handleg Infinition and Additional Information       1.0 9210-17317 BRG#171 Tank Binnes Water (13) T       D13 T       D10 1 D035 F003         2. 0 9310-12541 BRG#171 Tank Binnes Water (13) T         15. GENREARDS/SOFERORS CRETTICEARDS: Inney/a deam to the contents of the consignment and matter approximation appr			-	•				0	05		01300				
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P.O. Box 729 Benton, AR 72018 (800) 377-4692 www.rineco.com

10/23/2009

Kelly Moore Paints Ken Aghjayan 1195 B North 5th Street San Jose, CA 95112

# **Certificate of Disposal**

Kelly Moore Paints, Seattle, WA Manifest # 002892751FLE Received 10/13/2009

This is to certify that the waste materials received from the above referenced generator and manifest number have been managed and disposed of in accordance with all applicable Federal, State, and Local laws and regulations.

Certificate of Recycling This is to certify that the following container(s) were received and the steel from the container has been captured and sold as scrap metal for recycling.

Line	# of Containers	<b>Total Lbs. for Recycling</b>
3.	1	50
4.	4	200
<del>.</del>		
		· · · · · · · · · · · · · · · · · · ·
•		

All Scrap metal is sent to one of the following scrap metal brokers:

Sol Alman Company 1300 East 9th Street Little Rock, AR 72202

A. Tenebaum Company, Inc. P.O. Box 15128 GMF North Little Rock, AR 72202

By:

Monte J. Dilick, Vice President of Sales & Marketing

1. Rineco ensures that each container is "empty" by the relevant Resource Conservation and Recovery Act and Hazardous Waste Management Code Regulatory standards prior to processing in the Container Decontamination Unit.

2. Weights are based on industry estimates of an average of 50 lbs. per 55 gallon steel drum.

3. The scrap metal is typically shredded, bundled, or otherwise processed by the scrap metal brokers in a manner to facilitate use by manufacturing facilities as a raw material in their processes.

# RINECO

# URGENT

819 Vulcan Rd. Building 300 - Haskell Benton, AR 72015 501- 778-9089 (FAX) 501-778-8505

# URGENT

# **Manifest Correction Report**

**REGION:** 

FAX:

N10

408-885-9560

DATE: Tuesday January 12, 2010 3:52PM

GENERATOR: Kelly Moore Paints

CITY /STATE: Seattle, WA

GENERATOR CONTACT: Ken Aghjayan

MANIFEST #: 002892751FLE

Correction # 44507

CORRECTIONS NEEDED:

Block 13 Lines 2 and 3 Should Contain:" F003, F005" Block 14 Lines 2 and 3 Should Contain:"0910-17317 ERG#171 Tank Wastewater"

**Amy Corvin** 

RINECO CUSTOMER SERVICE REP

# RINECO REGULATORY APPROVAL

If you are a broker, your signature below is certifying that you are authorized as an agent of the generator by contract or agreement to make additions or corrections to Manifests and/or Land Disposal Restrictions.

Generators and/or Brokers please complete this portion

COMPANY NAME			Kelly	Moore Paints			
PRINT OR TYPE N	AME		KEN AGHJMM	AD	TE:	01-12-10	
SIGNATURE:		A					
		<u> </u>					

Your signature allows RINECO to make necessary changes to your paperwork. Please fax back as soon as possible today, to prevent any delays in receiving your original manifest, CD/R.

Please print or type. (Form designed for use on elits (12-pitch) typewriter.)       Form Approved. ONe P         Image: Construction of the image of the second of the	
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HM         and Packing Group (if any))         No.         Type         Guardaty         Wrt.rvo.           1. </td <td></td>	
UN3432, Waste Polychlorinated Biphenyls,	5.0006. 8.0009
WH3432, Waste Polychlorinated Biphenyls,	5-9006
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14. Special Handling Instructions and Additional Information	
11. CE401301 - 6 - UNIA2/5590/ PCB Remediation Waste-Solids Unique IDA 174104 Out of Service - 12/16/09	
15. GENERATOR SIOFFEROR'S CERTIFICATION: Thereby declare that the contentio of his consignment are tuty and accurately described above by the proper shipping name, and are classified, in marked and labelet/plicoarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipping name, and are classified, in marked and labelet/plicoarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipping name, and are classified, if an applicable international and national governmental regulations. If export shipping name, and are classified and the export of the contents of this altachet EPA Acknowledgment of Consent. I certify that the wester minimization statement identified in 40 CFR 262.27(e) (if I am a targe quantity generator) to (b) (if I am a small quantity generator) is true.	ackaged, Primary
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Rineco	Customer Service Rep: Amy Corvin			
819 Vulcan Road	Region: Wes Holland	Special Instructions: Yes		
P.O. Box 729, Benton, AR Office: (501) 778-9089	Profile #: 0910-17317	Create Date: 10/01/2009		
Fax: (501) 778-8505	Broker Rep #:	Last Cert Date: 10/01/2009		
Territory Manager: Corey Johnson	Status: Approved	Expiration Date: 10/01/2010		

## I. WASTE MATERIAL PROFILE SHEET

In accordance with the Federal and State regulations, it is necessary for the Generator of hazardous waste to properly identify the waste for their records as well as to supply the disposal facility with the information necessary to handle the waste. The information outlined below must be complete, and signed by the generator.

Generator Na	ame: <i>Kelly Moore Paints</i>	USEPA I.D. No. WAD059315069
Address:	5400 Airport Way South	State ID No. WA
	Seattle, WA 98108	
Technical Co	ntact: <i>Ken Aghjayan</i>	Title:
24 Hour Eme	rgency Contact: <i>Ken Aghjayan</i>	24 Hour Phone: 408-841-6337
Is this Mater	ial located or generated in a foreign country? No	
Foreign Addr	ess:	
24 Hour Eme Is this Mater	ergency Contact: <i>Ken Aghjayan</i> ial located or generated in a foreign country? <i>No</i>	

# **II. GENERAL INFORMATION**

Material Name: Tank Wastewater

- No A. Does waste exhibit the characteristic of ignitability as defined in 40 CFR 261.21?
- No B. Does waste exhibit the characteristic of corrosivity as defined in 40 CFR 261.22?
- **No** C. Does waste exhibit the characteristic of reactivity as defined in 40 CFR 261.23?
- Yes D. Is waste a spent solvent as defined in 40 CFR 261.31?
- **No** E. Is waste a discarded Chemical Product, off spec, container or spill residues as defined in 40 CFR 261.33?

Detailed description of process generating waste: facility cleaning/closing

Monthly Volume: 2-5 275 gallon totes

Bulk: No Drum: No Other: Yes

If was other, Explain: totes

# III. MATERIAL COMPOSITION

		U U	oncentration	
COMPONENT	Min	Max	Actual	PPM

Concentration

Water	95	99		No
Dirt	1	5		No
Aroclor 1248 CAS#12672-29-6			0.008	Yes
Aroclor 1254 CAS#11097-69-1			0.023	Yes
Aroclor 1260 CAS#11096-82-5			0.027	Yes
Acetone			140	Yes
Toluene			27	Yes
Xylene			38	Yes

# **IV. PHYSICAL CHARACTERISTICS**

Liquid
Yes
Low
Single
None
> 200F
6 to 8
1.0

# **V. OTHER CHARACTERISTICS**

No Explosive	No Dioxin
No Radioactive	No Shock Sensitive
No Sulfide	No PCB
No Etiological	No Cyanid
No <b>Pyrophoric</b>	No Water Reactive

# **VI. SHIPPING INFORMATION**

Profile #: 0910-17317

DOT Hazardous Material:	Yes ER Guide #: 171
Proper Shipping Name:	RQ, Hazardous waste, liquid, n.o.s. (Acetone, Toluene)
Hazard Class and Division:	9 UN or NA: NA3082 Packaging Group: III
RQ: Yes If Yes: F003	Addl Information:
USEPA HAZARDOUS WASTE:	Yes
Waste ID	F003

Numbers:

F005

# VII. INDICATE IF WASTE CONTAINS ANY OF THE FOLLOWING CHARACTERISTICS as defined by 40 CFR 261.24

Check only if waste exceeds regulatory threshold levels and include analytical date if available.

Constituent	Regulatory level PPM	TCLP PPM	Total PPM	Knowledge
D004 Arsenic	5			No
D005 Barium	100			No
D006 Cadmium	1			No
D007 Chromium	5			No
D008 Lead	5			No
D009 Mercury	0.2			No
D010 Selenium	1			No
D011 Silver	5			No
D012 Endrin	0.02			No
D013 Lindane	0.4			No
D014 Methoxychlor	10			No
D015 Toxaphene	0.5			No
D016 2,4 Dichlorophenoxyacetic acid	10			No
D017 2,4,5 TP Silvex	1			No
D018 Benzene	0.5			No
D019 Carbon Tetrachloride	0.5			No
D020 Chlordane	0.03			No
D021 Chlorobenzene	100			No
D022 Chloroform	6			No
D023 o-Cresol	200			No
D024 m-Cresol	200			No
D025 p-Cresol	200			No
D026 Cresol	200			No
D027 1,4,Dichlorobenzene	7.5			No
D028 1,2,Dichloroethane	0.5			No
D029 1,1 Dichloroethylene	0.7			No
D030 2,4 Dinitrotoluene	0.13			No
D031 Heptachlor	0.008			No
D032 Hexachlorobenzene	0.13			No
D033 Hexachlorobutadiene	0.5			No
D034 Hexachloroethane	3			No
D035 Methyl Ethyl Ketone	200			No
D036 Nitrobenzene	2			No

D037	Pentachlorophenol	100	No
D038	Pyridine	5	No
D039	Tetrachloroethylene	0.7	No
D040	Trichloroethylene	0.5	No
D041	2,4,5 Trichlorophenol	400	No
D042	2,4,6 Trichlorophenol	2	No
D043	Vinyl Chloride	0.2	No

# VIII. Benzene Waste Operations NESHAP Generator Certification. Complete only if D018 and/or U019 appear in section 6 (shipping information).

1. Is this waste generated by an industry with any of the following SIC Codes: 2911, 2800-2899,  $\underline{No}$  3312, or 4953?:

2. Does this stream have Benzene concentration of 10ppm or more?:	<u>No</u>
3. Does this stream contain greater than 10% moisture?:	<u>No</u>
4. Is this company's Total Annual Benzene (TAB) of 10Mg or greater per year?:	<u>No</u>

#### Rineco

819 Vulcan Road P.O. Box 729 Benton, AR 72018 800-377-4692 501-778-9089

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Kelly Moore Paints Ken Aghjayan 1195 B North 5th Street San Jose, CA 95112

1/13/2010

# **Certificate of Disposal**

Kelly Moore Paints, Seattle, WA Manifest # 002902553FLE Received 11/6/2009

This is to certify that the waste materials received from the above referenced generator and manifest number have been managed and disposed of in accordance with all applicable Federal, State, and Local laws and regulations.

Certificate of Recycling This is to certify that the following container(s) were received and the steel from the container has been captured and sold as scrap metal for recycling.

Line	# of Containers	Total Lbs. for Recycling
1.	11	575
3.	9	450
4.	1	50

All Scrap metal is sent to one of the following scrap metal brokers:

Sol Alman Company 1300 East 9th Street Little Rock, AR 72202 A. Tenebaum Company, Inc. P.O. Box 15128 GMF North Little Rock, AR 72202

- N Ail By:

Monte J. Dilick, Vice President of Sales & Marketing

1. Rineco ensures that each container is "empty" by the relevant Resource Conservation and Recovery Act and Hazardous Waste Management Code Regulatory standards prior to processing in the Container Decontamination Unit.

- 2. Weights are based on industry estimates of an average of 50 lbs. per 55 gallon steel drum.
- 3. The scrap metal is typically shredded, bundled, or otherwise processed by the scrap metal brokers in a manner to facilitate use by manufacturing facilities as a raw material in their processes

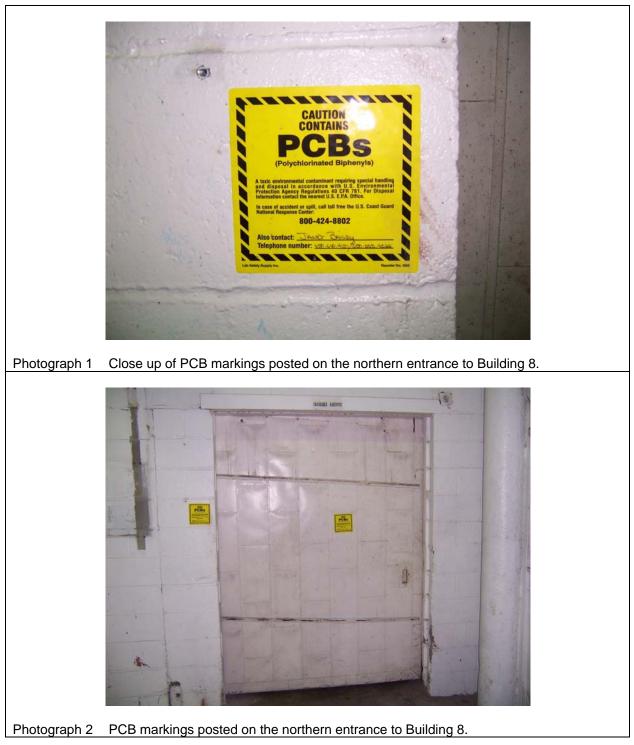


Photographic Documentation



# SITE PHOTOGRAPHS

Former Kelly-Moore Manufacturing Facility Seattle, Washington



AMEC Geomatrix, Inc.



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