



Building Decommissioning Assessment Report

**Former Hangar 2
Willow Run Airport
Ypsilanti, Michigan
Task 3**

**Prepared by/for:
Wayne County Airport Authority**

**Prepared by:
CRA Engineering Inc.**

04496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Office: (734) 453-5123
Fax: (734) 453-5201

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EXECUTIVE SUMMARY

CRA Engineering, Inc. (CRA) was retained by the Wayne County Airport Authority (Airport Authority) under a Professional Services Agreement for Facility Demolition, Engineering and Related Services at the Willow Run Airport for Hangar 2. As part of the project plan, CRA is to submit a Building Decommissioning Assessment (BDA) report providing the results of the investigation of the existing information and current conditions associated with the structures.

The objective of the BDA is to identify areas of environmental interest associated with structures, building materials, and equipment to support the demolition of Hangar 2. The BDA also serves to classify wastes requiring removal, recycling and/or disposal, and impacted building materials requiring cleaning and/or abatement prior to demolition of Site structures.

CRA is providing the following recommendations to facilitate demolition of the Hangar 2.

1. Regulated asbestos containing materials (ACM) should be abated and properly disposed. Nonfriable ACM left in place during demolition should be properly removed and disposed in accordance with applicable regulations. If previously unidentified suspect ACM is encountered during renovation activities, and are to be disturbed during decommissioning, these materials should be sampled to determine proper management and disposal requirements.
2. Natural gas lines in Hangar 2 require characterization for PCB content after the lines have been terminated and purged. Lines downstream from the regulator are owned by WCAA and should be addressed by WCAA. Upstream lines are owned by the utility.
3. Universal wastes (high intensity discharge (HID) and fluorescent lamps, mercury devices, and batteries), unused products, light ballasts, capacitors/transformers, waste oil, and refrigerants should be properly managed and disposed or recycled.
4. One substation with a connected exterior switchgear room was identified in Hangar 2 during BDA activities. The electrical equipment, concrete slab, and walls must be removed and disposed of as Toxic Substances Control Act (TSCA) wastes during decommissioning. Additional delineation sampling of the exterior concrete and soils surrounding the switchgear room is required once weather and surface conditions are favorable for proper sample collection.
5. Upon confirmation of de-energization of transformers, additional transformer oil, cable, and component sampling is recommended.
6. Equipment with fluids and oils must be drained prior to demolition. These fluids must be characterized and properly disposed.

7. Characterization of previously inaccessible roof materials is recommended prior to decommissioning.
8. Additional sampling and quantification of expansion joints was conducted. Although the PCB concentrations in the expansion joints are less than 50 mg/kg and not regulated by TSCA, CRA recommends these materials be removed during decommissioning and disposed as demolition debris.
9. The roof and exhaust tunnel system should be inspected and characterized as part of decommissioning Hangar 2.

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Section 1.0 Introduction

CRA Engineering, Inc (CRA) was retained by the Wayne County Airport Authority (Airport Authority) under a Professional Services Agreement for Facility Demolition, Engineering and Related Services at Detroit Metropolitan Wayne County and Willow Run Airports as the Designer under RFQ Control No. S13-063A. The contract was approved by the Airport Authority Board on May 14, 2013. A partial Authorization for Services for Task 3 (Hangar 2) was issued on June 18, 2013 with a subsequent Amendment for the phases of Pre-design, Surveying, Environmental Consulting and Architectural Engineering on September 17, 2013.

On July 2, 2013 CRA provided the Airport Authority with a Service Proposal for Task 3 – Hangar 2, at Willow Run Airport (YIP). In conjunction with the Task 3 Service Proposal, CRA provided the Airport Authority with a series of tasks to be completed and incorporated these tasks into a formal project schedule. This schedule was revised on September 20, 2013 becoming the project plan for the demolition engineering of Hangar 2.

As part of the project plan, CRA is to submit a Building Decommissioning Assessment (BDA) report providing the results of the investigation of the existing information and current conditions associated with the structures. The objective of the BDA is to identify areas of environmental interest associated with structures, building materials, and equipment to support the demolition of Hangar 2. The BDA also serves to classify wastes requiring removal, recycling and/or disposal, and impacted building materials requiring cleaning and/or abatement prior to demolition of Site structures.

The BDA included an assessment of areas located throughout the main hangar area and adjacent support area and offices. The decommissioning assessment included a site investigation, asbestos audit and the sampling of areas of potential environmental concern associated within the structure that would require decommissioning prior to demolition activities. In conjunction with this assessment, CRA conducted a review of the quantity of materials associated with the design and construction of the buildings.

This assessment was performed in accordance with the Professional Services Agreement between the Airport Authority and CRA. This BDA report has been developed to summarize findings of areas and items requiring decommissioning and/or abatement, and to provide summaries of recommended decommissioning activities, regulatory requirements, and waste disposal requirements. A summary of recommended future decommissioning activities and estimated material quantities is provided.

1.1 General Site Background

Hangar 2 is one of two hangars constructed as part of the Willow Run B24 bomber plant located on the Airport Service Road on the grounds of the Willow Run Airport. The building location is shown on Figure 1.

1.2 Building Description

Hangar 2 was constructed in 1941 as part of the Willow Run plant to manufacture the B-24 Liberator bomber for service in World War II (WWII). The structure was built in anticipation of wartime conditions and has eight large steel hangar doors and a heavily steel-reinforced roof. The hangar is sided with steel and transite panels.

A two-story office structure runs the 1,200-foot length of the west side of the building. The office structure has a concrete beam construction with a brick exterior.

Following WWII, the University of Michigan used Hangar 2 as a research facility. Recent use included airline office use and use by the Yankee Air Museum. The structure is currently used for material storage by the Airport Authority but is mostly vacant.

Hangar 2 consists of the following sub-areas that are referred to in this report.

- Hangar Area
- First Floor Office and Support Areas
- Second Floor Office Areas

A Site Plan is shown on Figure 2, developed by the CRA survey team from measurements taken at the structure on November 13, November 25 and November 29, 2013. Figure 3 identifies the BDA investigation area discussed in this report including the sample locations referred to throughout this report.

1.3 Background Information

CRA reviewed information pertinent to Hangar 2 provided by the Airport Authority. These included:

- Construction Drawings dated 1943 prepared by Albert Kahn Associated Architects & Engineers Inc. (52 sheets)
- Visual Inspection for Suspect ACM, letter report from American Environmental Consultants, L.L.C. dated March 8, 2008

- A Memorandum from Daniel Herrema regarding WCAA Control No. 20080408, Pre-Demolition Site Considerations dated March 14, 2008
- Phase I Environmental Site Assessment Report, Hangar 2 Willow Run Airport dated March 2008 and prepared by LimnoTech
- Phase II Environmental Site Assessment Report, Hangar 2 Willow Run Airport dated March 2008 and prepared by LimnoTech
- A Site Plan dated October 21, 2009 prepared by Wayne County Airport Authority
- Existing Hangar No. 2 Utility Plan – Northwest dated July 22, 2010 prepared by Wayne County Airport Authority
- Existing Hangar No. 2 Utility Plan – Southeast dated July 22, 2010 prepared by Wayne County Airport Authority
- Existing Hangar No. 2 Utility Recommendations Plan Northwest dated July 22, 2010 prepared by Wayne County Airport Authority
- Existing Hangar No. 2 Utility Recommendations Plan Southeast dated July 22, 2010 prepared by Wayne County Airport Authority
- Hangar No. 2 Utility Study Final Report dated July 22, 2010 and prepared by C&S Engineers, Inc.
- Gilbane CAT Response Report, February 2011
- Asbestos Inspection and Hazardous Materials Survey, ATC Associates, Inc, March 28, 2011
- Building Assessment Aircraft Hangar Willow Run Airport dated March 2013 prepared by Jacobsen/Daniels Associates LLC
- A letter from GHAFRA regarding Task 7-0: Willow Run Hangar #2 Assessment dated June 3, 2013

1.4 CRA's Scope of Work

The BDA was conducted throughout the structure. The roof was included in the scope of work but CRA and its subconsultants did not access the upper roof surface or collect samples of the surface roofing material. The structure has four exhaust tunnels beneath the hangar slab. CRA did not enter the tunnels or the adjoining pits.

CRA completed the following tasks as part of this BDA.

1.4.1 Initial Site Investigation

CRA conducted an initial walk-through investigation of Hangar 2 on June 26, 2013. Background information was requested and reviewed by CRA during October 2013. CRA interviewed employees at the Airport Authority to assist in identifying PAOCs associated with the building. A detailed file search

was conducted at the Airport Authority offices on October 16, 2013. CRA requested and received copies of all available construction drawings from Albert Kahn Associates, Inc. on December 6, 2013. An electronic copy of these drawings was furnished to the Airport Authority.

Prior studies of the condition of Hangar 2 have been conducted by others. A current survey of the structure identifying asbestos-containing materials (ACM) is required to obtain a permit to demolish the structure. CRA utilized the services of Environmental Consulting Group, Inc (ECG) to inspect and quantify suspected ACM. This subconsultant was approved by the Airport Authority on November 15, 2013

CRA conducted a Site investigation of Hangar 2 on November 5, 2013. The investigation consisted of a visual inspection identifying areas of regulated materials, utilities, potential assets, and other Site conditions. CRA also conducted a visual inspection of accessible areas, flooring, an active substation, and other items or areas of environmental significance.

Primary objectives during the Site inspection included identifying and quantifying items requiring decommissioning prior to demolition activities, and identifying items or areas requiring sampling to characterize decommissioning requirements. Information obtained from the visual Site inspection has been incorporated into this report. During the November 5, 2013 Site inspection, a locked laboratory was inspected. This laboratory had previously been used to conduct radiological testing of metal alloys.

1.4.2 Sampling and Analysis

CRA developed a Sampling and Analysis Plan (SAP) based on the November 5, inspection of Site conditions. The SAP was provided to the Airport Authority for review and approval on November 12. No changes were made by the Airport Authority and the SAP was executed beginning on November 19 and continued on December 3, 2013. The structure was inspected by ECG and sampled to identify and quantify ACM during this same period.

CRA conducted a survey within the former Hangar 2 boilers for Naturally Occurring Radioactive Materials (NORM) and a mercury vapor survey on December 3, 2013. The laboratory was also monitored during the NORM survey.

Media sampled during SAP implementation included stained surfaces, sludges, solids, oils, paints, and concrete. Samples were submitted to a CRA's subconsultant laboratory, TestAmerica, Inc. in North Canton, Ohio for analysis. Samples were analyzed on a standard two-week turnaround time.

Laboratory analytical reports are provided in Appendix A.

Section 2.0 Areas/Items of Interest – Structures/Building Materials

CRA investigated the following Hangar 2 building materials as part of the BDA. A sample key for samples of all media is presented in Table 2.0. The laboratory results for BDA samples are summarized in Tables 3 through 6. CRA samples that exceed applicable screening criteria are summarized in Table 7. The locations of each sample collected appear on Figure 3.

2.1 Asbestos-Containing Materials

In accordance with the National Emissions Standards for Hazardous Air Pollutants (NESHAP), RACM (regulated asbestos-containing materials) which includes friable ACM, or other asbestos-containing materials that may become crushed, pulverized, or reduced to powder during demolition or renovation activities must be removed and disposed during facility decommissioning by properly accredited State of Michigan asbestos professionals. Asbestos abatement is a required decommissioning activity.

CRA's subcontractor, ECG, performed the asbestos audit in Hangar 2. Suspected materials were sampled and analyzed. Analytical laboratory results and tables from the ECG Report showing material locations, types, quantities, and sample results relevant to this report are provided in Appendix B. The following materials tested positive for asbestos content in the areas being considered for this BDA.

ACM	LOCATION	QUANTITY
Pipe Joint and Hangar Insulation 2" – 8" – TSI (friable)	Bays 2-8	~8,675' linear
Boiler Caulk Gasket (friable)	Bay 3, Bay 7	300' linear
Fuel Pipe Wrap (friable)	Bay 6	4' linear x 8"
Pipe Fittings (friable)	Bays 2-7	719 fittings
Tank Insulation (friable)	Bay 2, Bay 7	~400 square feet
Boiler Plate Mud (friable)	Bay 6	~75 square feet
Boiler Insulation (friable)	Bay 7	~150 square feet
Fire Doors (non-friable)	Bay 3 - First Floor	3 doors
Fire Doors (non-friable)	Bay 4 – Second Floor	1 door
Transite Panels (non-friable)	Hangar Exterior – Bays 2-8	~80,225 square feet
Transite Ducts (non-friable)	Bay 1 – Sections 1-4 to 1-10	~5,500 square feet

ACM	LOCATION	QUANTITY
Transite Ducts (non-friable)	Bay 2 – Sections 2-18 to 2-26	~10,250 square feet
Transite Ducts (non-friable)	Bay 3 – Sections 3-11 to 3-14	~11,650 square feet
Transite Ducts (non-friable)	Bay 4 – Sections 4-15 to 4-20	~7,500 square feet
Transite Ducts (non-friable)	Bay 5 – Sections 5-4 to 5-14	~7,950 square feet
Transite Ducts (non-friable)	Bay 6 – Sections 6-11 to 6-16	~11,350 square feet
Transite Ducts (non-friable)	Bay 7 – Sections 7-1 to 7-14	~8,230 square feet
Transite Ducts (non-friable)	Bay 8 – Sections 8-1 to 8-13	~8,550 square feet
Floor Tile (non-friable)	Bays 1-8 – see Appendix B ACM report	~42,800 square feet
Window/Fan Caulk (non-friable)	Interior/Exterior - see Appendix B ACM report	~27,467' linear x .5"
Window Glazing (non-friable)	Interior/Exterior - see Appendix B ACM report	~9,649' linear x .5"
Concrete Tunnel Sealant (non-friable)	Bay 2 – Section 2-26 Boiler Room Tunnel, Bay 3 – Section 3-14 Boiler Room Tunnel, Bay 6 – Section 6-12 Boiler Room Tunnel, Bay 7 – Section 7-2 Boiler Room Tunnel	~2,400' linear
Weatherproofing Tar (non-friable)	Bay 4 – Section 4-3	~30 square feet
Black Table Top (non-friable)	Bay 6 – Section 6-14	~45' linear
Sink Undercoating (non-friable)	Bay 8 – Section 8-15	~3 square feet
Roof Flashing (non-friable)	Exterior – Lower Roof Above Boiler Rooms	~800' linear
AC Unit Tar	Exterior – Middle Roof Top	18 units
Electrical Panel Arc Chute (non-friable)	Bays 1-8 – see Appendix B ACM Addendum Memorandum	38 panels x ~10 square feet per panel

ACM	LOCATION	QUANTITY
Electrical Panel Fuse Housing (non-friable)	Bays 1-8 – see Appendix B ACM Addendum Memorandum	38 panels x ~ 10 square feet per panel
Circuit Isolation Board (non-friable)	Bays 1-8 – see Appendix B ACM Addendum Memorandum	38 panels x ~ 0.5 square feet per panel

ECG noted in their report the following:

Friable TSI may be present between interior component walls where observed mechanical piping enter/exit a wall/ceiling. Additional TSI should be assumed present in sink chases and/or bathroom chases that were not accessible without structural demolition. Careful, selective demolition of walls should be conducted at these locations to determine if ACM is present. If TSI is present, it should be removed by a licensed asbestos abatement contractor per applicable regulations, prior to demolition activities.

In addition, the roofing material and flashing contain ACM. This material is not RACM but will require removal and disposal by mechanical means during demolition.

2.2 Pits, Trenches, and Sumps

Pit/trench/sump wastes should be removed and properly disposed, and affected surfaces should be decontaminated as a recommended decommissioning activity.

A floor trench was observed in the main hangar running the length of the hangar doors. This trench system is part of a building exhaust system constructed below slab grade. No debris was visible in this trench system and it was not sampled as part of the BDA.

2.3 Concrete Flooring

Concrete floors are present on both levels of Hangar 2. Excluding PCB impacted concrete, concrete may be recycled during demolition provided accumulated oily waste and residue or otherwise apparently contaminated concrete is cleaned or disposed as waste during decommissioning.

Representative samples of the Hangar 2 concrete floor were collected. Concrete floor core samples were collected from the main hangar area, boiler/fan rooms, electrical shop, switchgear room, waste storage area, and substation room. Sample locations were selected with a bias towards staining. Sample locations are provided in Figure 3. These samples were analyzed for PCBs. The concrete floor samples from the main hangar area and waste storage area were sampled for PCBs and Resource Conservation and Recovery Act (RCRA) metals analysis to evaluate recycling or disposal options.

The sample results were compared to the TSCA criteria for bulk PCB remediation waste located in high occupancy areas per 40 CFR 761.61(a) for PCBs and to RCRA screening criteria. PCBs were detected in Samples 018, 019, 024, 025 collected from concrete in the substation and switch gear rooms. The highest concentration detected was 4,300 mg/kg Aroclor-1260 in Sample 024 from the switchgear room. On January 17, 2014, thirteen additional concrete samples were collected then analyzed for PCBs to define the extent of PCB-impacted concrete located in the substation and switch gear rooms. Based on the analytical results, PCBs were detected in twelve of the thirteen additional concrete samples at concentrations of 0.62 mg/kg to 3,200 mg/kg. Thus, the extent of PCB-impacted concrete and soils outside the substation and switch gear rooms was better defined through additional investigation and sampling during February 2014. Impacted concrete or soils with PCB concentrations greater than 1 ppm should be disposed of as TSCA wastes.

On February 14, 2014, two concrete samples and one soil sample were collected to assess the extent of PCB-impacted concrete and soils surrounding the east and west exterior to the switchgear room. Based on the analytical results, PCBs were detected in all three samples at concentrations of 2.9 mg/kg to 120 mg/kg. Additional delineation sampling of the exterior concrete and soils surrounding the switchgear room is required once weather and surface conditions are favorable for proper sample collection.

The other PCB results for concrete samples collected from Hangar 2 were below detection. RCRA metals were detected in the glazed block sample at concentrations below the RCRA screening criteria. The results of concrete floor samples are summarized in Table 3.

2.4 Tunnels/Basements

No basement was observed under or associated with Hangar 2. A below-grade tunnel system was constructed for a building exhaust system. A general description of the exhaust system is provided in Section 3.8 of this report.

2.5 Underground Storage Tanks

No evidence of underground storage tanks (USTs) was observed in the investigation area.

2.6 Roofing

CRA suspected contamination of the roofing materials however was unable to collect samples of roofing material for waste characterization. The material will be disposed of at a licensed landfill as non-friable ACM during demolition. Additional sampling and analysis may be required by the landfill at that time.

2.7 Aboveground Storage Tanks

A single storage tank was observed as part of the former air compressor system. This tank was for the storage of compressed air and was not the subject of this BDA.

2.8 Painted/Structural Surfaces

Demolition activities will cause painted surfaces to be disturbed. Appropriate health and safety precautions should be taken when work activities require disturbing paint surfaces. Paint disturbing activities such as welding, cutting, or torching should be conducted in accordance with Occupational Safety and Health Administration (OSHA) regulations for lead and chromium exposure in construction (29 CFR 1926.62 and 29 CFR 1910.1026, respectively).

CRA collected paint chip samples from structural surfaces throughout Hangar 2. Paint chip samples locations were identified based on color, and were collected from various structural materials to represent various locations. Seven composite paint chip samples were collected from Hangar 2.

PCB results for the paint chip samples were compared to the 40 CFR 761.3 definition of PCB bulk product waste with PCB concentrations of less than 50 mg/kg. PCBs were detected in 6 of the 7 paint samples at concentrations ranging from 2.7 to 8.5 mg/kg, which is below applicable criteria. If PCBs are confirmed to be from a manufactured ingredient, the concentrations detected in these materials do not qualify as PCB bulk product waste if disposed, and are not regulated by TSCA. The results of paint chip samples analysis are summarized in Table 4.

2.9 Expansion Joints and Window Caulk

CRA collected 18 potential PCB bulk product samples from expansion joint material (Samples 006 and 025 through 041) in the main hangar floor area and 3 potential PCB bulk product samples from expansion joint material (Samples 007, 042, and 043) located in exterior brick walls. A single sample of window caulk (Sample 058) was taken from the main floor area. All samples were analyzed for PCBs.

Potential PCB bulk product waste sample results were compared to the 40 CFR 761.3 definition of PCB bulk product waste of 50 mg/kg or greater. PCBs were detected at concentrations of non-detect to 43 ppm in the expansion joint samples. No PCBs was detected in the window caulk. The results of these samples are summarized in Table 5.

Although the PCB concentrations in the expansion joint materials are less than 50 mg/kg and not regulated for disposal by TSCA, CRA recommends these materials be removed during decommissioning and disposed as demolition debris. Expansion joint materials were collected from building interior, exterior, floors, and walls. These materials should not be allowed to be crushed with concrete intended

for reuse as fill. Mismanagement of such materials may result in the materials becoming regulated by TSCA.

2.10 Equipment

CRA observed visible oil on equipment. This included air compressor equipment and axles associated with the motors and fans of the ventilation equipment. Wipe samples (Samples 026, 029 and 034 – 041) were collected of these oil stained metal surfaces. These samples were analyzed for PCBs. PCB results for the samples were compared to the 40 CFR 761.61(a) criteria for nonporous surfaces located in high occupancy areas of less than or equal to $10 \mu\text{g}/100\text{cm}^2$. PCBs were not detected at concentrations exceeding $10 \mu\text{g}/100\text{cm}^2$ in these wipe samples (Table 6).

Wipe samples were also collected of the electrical equipment panels in the substation (Samples 022 and 023) and the red junction box and grounding bar in the switch gear room (Samples 027 and 028). These samples were analyzed for PCBs. PCB results for the samples were compared to the 40 CFR 761.61(a) criteria for nonporous surfaces located in high occupancy areas of less than or equal to $10 \mu\text{g}/100\text{cm}^2$. PCBs were detected in all of the wipe samples at concentrations ranging from $7.3 \mu\text{g}/100\text{cm}^2$ to $190 \mu\text{g}/100\text{cm}^2$. Some of these concentrations exceed the limit of $10 \mu\text{g}/100\text{cm}^2$ and are regulated by TSCA. This equipment must either be decontaminated in accordance with 40 CFR 761.79 for unrestricted use, or disposed in accordance with TSCA.

On January 17, 2014, eight additional wipe samples of various electrical equipment or metal surfaces were collected to better define the extent of PCB-impacted equipment located in the substation and switch gear rooms. Two of the eight wipe samples (EPM-001 and EPM-002) obtained from the switch gear room contained PCBs at detected concentrations of $20 \mu\text{g}/100\text{cm}^2$ to $26 \mu\text{g}/100\text{cm}^2$. As stated above, wipe concentrations exceeding $10 \mu\text{g}/100\text{cm}^2$ are regulated by TSCA and equipment with such impacts must either be decontaminated in accordance with 40 CFR 761.79 for unrestricted use, or disposed in accordance with TSCA.

Oil was found in vintage door hinge dampeners and sampled for PCBs (Samples 056 and 057). All PCB results for these oil samples were below detection. The results for these oil samples are reported in Table 5.

Samples were taken from the boiler and fire brick debris within the former boilers. The four solid samples (Samples 052-055) were analyzed for PCBs and total RCRA metals.

The sample results for Sample 052-055 are provided in Table 5. The analytical results were compared to the RCRA criteria for characteristically hazardous waste for metals and to the TSCA criteria for bulk PCB remediation waste located in high occupancy areas per 40 CFR 761.61(a) for PCBs. No PCBs were

detected in the sample. RCRA metals were detected in the solid samples at concentrations below the RCRA screening criteria.

Section 3.0 Regulated Materials

Materials exist throughout Hangar 2 that are regulated under federal, state and local regulations. These materials must be identified and segregated for proper handling, interim storage and disposal as part of decommissioning activities. As part of this BDA, CRA inspected Hangar 2 and recorded the type and amount of regulated materials. The type and estimated quantity of regulated materials observed during the BDA is presented in Table 1.

3.1 Refrigerants

Refrigerant gases must be recovered and recycled as a required decommissioning activity. Refrigerant gas containing equipment includes room-type air conditioners (window and cabinet style), refrigerators, and drinking fountains. The location and number of CFC-containing devices is provided in Table 1.

3.2 Electrical Systems

Electrical equipment must be inspected for free liquid and potential PCB content as a required decommissioning activity. Electrical equipment including transformers was observed in Hangar 2.

3.2.1 Transformers

A single substation is incorporated in the construction of Hangar 2. The location of the substation is on the first floor.

The door to the substation is labeled as "PCB". Prior to decommissioning, electrical service must be rerouted and power disconnected. The removal of the transformer and contaminated concrete is a required decommissioning activity. Once wiring is de-energized, insulating material must be checked for the presence of regulated materials including lead, asbestos and PCBs.

3.2.2 Capacitors

CRA did not observe capacitors on equipment present in Hangar 2. If capacitors are identified during decommissioning and demolition, capacitors should be verified to be PCB-containing or non-PCB and appropriately managed prior to the decommissioning and demolition activities.

3.3 Lead

Lead containing materials meet the criteria as characteristically hazardous waste. Lead may be found on wire jacketing during removal. Lead was also reported (ATC, 2013) in the walls of the former radiation laboratory.

3.4 Batteries and Electronic Equipment

Emergency lights and exit signs contain batteries. If disposed, metals present within the lamps and batteries may require that they be disposed as RCRA characteristically hazardous waste. Alternatively, emergency lights and exit signs may be recycled as Universal Waste in accordance with 40 CFR 273. The recycling of batteries found in emergency lights and other equipment is a required decommissioning activity.

CRTs are found in monitors for computers, televisions, and other equipment, and can contain hazardous levels of metals such as lead. The removal and recycling of CRTs and other electronic equipment (e-waste) is a required decommissioning activity.

CRA identified batteries in exit signs and emergency lights as well as electronic equipment. The quantities of these materials are reported in Table 1.

3.5 Utilities

Hangar 2 utilities include electricity, water, storm water, sanitary, and natural gas.

3.5.1 Storm Sewers

Storm sewers are present at the Site. Hangar 2 is planned for demolition. Roof drain connections will likely be grouted and the storm sewers will remain functional. Storm sewer systems were not evaluated further during the BDA.

3.5.2 Sanitary Sewers

Sanitary drains from rest rooms will be cut and grouted as part of the demolition of Hangar 2. Additional sanitary sewers were not further investigated as part of this BDA.

3.5.3 Natural Gas

Natural gas is transmitted to the boilers in Hangar 2. The natural gas lines must be disconnected and purged as a required decommissioning activity. At this time, characterization of the natural gas lines will be conducted and the lines properly disposed of in accordance with TSCA regulations.

3.6 Mercury Containing Devices

Mercury devices that meet the criteria as characteristically hazardous waste are recycled in accordance with the Universal Waste Standards contained in 40 CFR 273. Mercury containing devices such as thermostats were observed in Hangar 2. Quantities of mercury devices observed during the Site inspection are provided in Table 1.

Albert Kahn drawing sheet 14C provides a wiring diagram of the Free and Trouble Alarm Circuits of the Deluge System as built in 1943. This drawing shows a total of 18 mercuric devices located within the circuits on column line L, along rows 1,6,13,20,27,32,39,45,50 and 57. These are in an elevated area and were not directly observed by CRA during the BDA inspections. Their presence must be confirmed during the decommissioning and if present, they must be removed and recycled as Universal Waste in accordance with 40 CFR 273.

3.7 Lighting

Fluorescent lighting, emergency lights, and high intensity discharge (HID) lights were observed throughout Hangar 2. Fluorescent and HID lamps may contain trace amounts of metals including lead, mercury, antimony, manganese and others. If disposed, the concentration of metals present may require that the lamps be disposed as characteristically hazardous waste as defined in RCRA. Alternatively, fluorescent and HID lamps may be recycled as Universal Waste in accordance with 40 CFR 273.

Fluorescent and HID light ballasts may contain PCBs in the potting material, or within small capacitors located within the ballast. Ballasts that are not expressly marked "PCB-free" or "non-PCB" should be assumed to contain PCBs and be managed and disposed as PCB waste. An inventory of lighting observed in Hangar 2 is provided in Table 1.

3.8 Air Pollution Control Systems/Exhaust Stacks

An exhaust system for aircraft engines was constructed below the concrete slab of Hangar 2. The exhaust trench runs the length of the eight hangar doors and tunnels under the slab in four trenches to adjoining pits. Detail of this exhaust system is found in the Albert Kahn construction drawing sheets 2, 16 and 17. CRA did not enter this trench system as part of this BDA.

3.9 Chemical Sweep

Containers of unused products such as cleaning products, chemicals and other commercial items must be removed and properly segregated and disposed of as a required decommissioning activity.

Isolated containers of commercial products occur in Hangar 2 including the radiological laboratory. These items will be collected and properly managed and disposed of during decommissioning.

3.10 Railroad Ties/Ballast

No railroad equipment was observed in or around the proposed demolition area.

3.11 Waste Management Areas/Satellite Oil Storage Areas

Waste management or satellite oil storage areas were not identified within the Hangar 2.

3.12 Oil-Filled Equipment

The removal of oil and free liquids from all equipment prior to demolition is a required decommissioning activity. Oils must be sampled for PCB's after accumulation and properly disposed.

Hangar 2 has equipment including the air compressor that contains free liquid. This equipment must be drained as a decommissioning activity.

3.13 Naturally Occurring Radioactive Material (NORM) Survey

CRA conducted screening of the NORM of the brick in the former boilers of Hangar 2. The objective of the screening was to distinguish if this brick is considered to be NORM contaminated. Equipment and materials are considered NORM contaminated when they are screened with a portable radiation survey meter and have a recorded radiation measurement indicating a 50 $\mu\text{R/hr}$ or greater reading (including background).

CRA personnel conducted NORM screening activities on December 3, 2013 of the boilers in Hangar 2. NORM screening of process equipment, structures, piping, and materials was conducted using a calibrated Ludlum Model 5 hand-held radiation detection and measuring instrument equipped with a Model 44-2 scintillator-type probe. The site background readings for NORM were obtained in various areas of the site using the Ludlum instrument. Recorded site background readings for NORM ranged from 4 to 30 $\mu\text{R/hr}$. NORM readings collected from the boiler brick were less than the NORM-impacted limits of 50 $\mu\text{R/hr}$.

In addition to the boiler brick, CRA personnel conducted a screen of the radiation laboratory in Hangar 2. Instrument readings collected from throughout the rooms were less than the limit of 50 $\mu\text{R/hr}$.

3.14 Mercury Survey Methodology and Results

CRA surveyed the Site for the presence of mercury vapors due to the number of devices present within the structure containing elemental mercury, such as mercooid switches and thermostats. The survey effort included assessing boiler natural gas metering equipment, boiler rooms and adjacent areas, offices and hallways. CRA surveyed these areas using a portable Lumex RA-915+ mercury vapor analyzer.

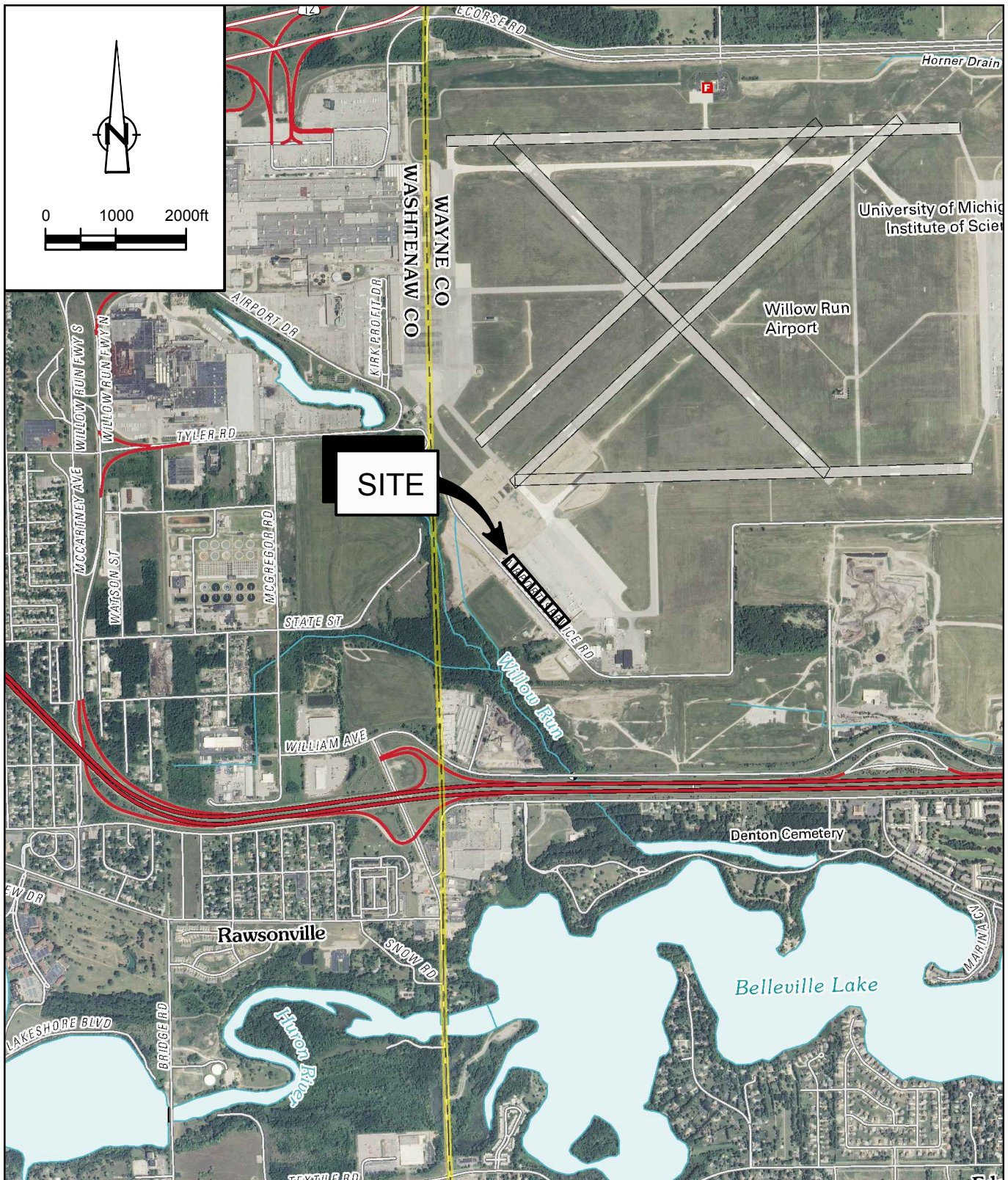
The results of the Mercury Vapor survey are provided in Table 8. No elemental mercury was observed during the survey. All recorded mercury vapor concentrations were below the Agency for Toxic Substances and Disease Registry (ATSDR) suggested action level for residential occupancy of 1,000 nanograms per cubic meter (ng/m³).

Section 4.0 Summary, Conclusions, and Recommendations

CRA is providing the following recommendations to facilitate demolition of the Hangar 2.

1. Regulated asbestos containing materials (ACM) should be abated and properly disposed. Nonfriable ACM left in place during demolition should be properly removed and disposed in accordance with applicable regulations. If previously unidentified suspect ACM is encountered during renovation activities, and are to be disturbed during decommissioning, these materials should be sampled to determine proper management and disposal requirements.
2. Natural gas lines in Hangar 2 require characterization for PCB content after the lines have been terminated and purged. Lines downstream from the regulator are owned by WCAA and should be addressed by WCAA. Upstream lines are owned by the utility.
3. Universal wastes (high intensity discharge (HID) and fluorescent lamps, mercury devices, and batteries), unused products, light ballasts, capacitors/transformers, waste oil, and refrigerants should be properly managed and disposed or recycled.
4. One substation with a connected exterior switchgear room was identified in Hangar 2 during BDA activities. The electrical equipment, concrete slab, and walls must be removed and disposed of as Toxic Substances Control Act (TSCA) wastes during decommissioning. Additional delineation sampling of the exterior concrete and soils surrounding the switchgear room is required once weather and surface conditions are favorable for proper sample collection.
5. Upon confirmation of de-energization of transformers, additional transformer oil, cable, and component sampling is recommended.
6. Equipment with fluids and oils must be drained prior to demolition. These fluids must be characterized and properly disposed.

7. Characterization of previously inaccessible roof materials is recommended prior to decommissioning.
8. Additional sampling and quantification of expansion joints was conducted. Although the PCB concentrations in the expansion joints are less than 50 mg/kg and not regulated by TSCA, CRA recommends these materials be removed during decommissioning and disposed as demolition debris.
9. The roof and exhaust tunnel system should be inspected and characterized as part of decommissioning Hangar 2.



SOURCE: USGS AERIAL MAP;
YPSILANTI, MICHIGAN; DATE: 2011

figure 1

SITE LOCATION MAP
HANGAR # 2

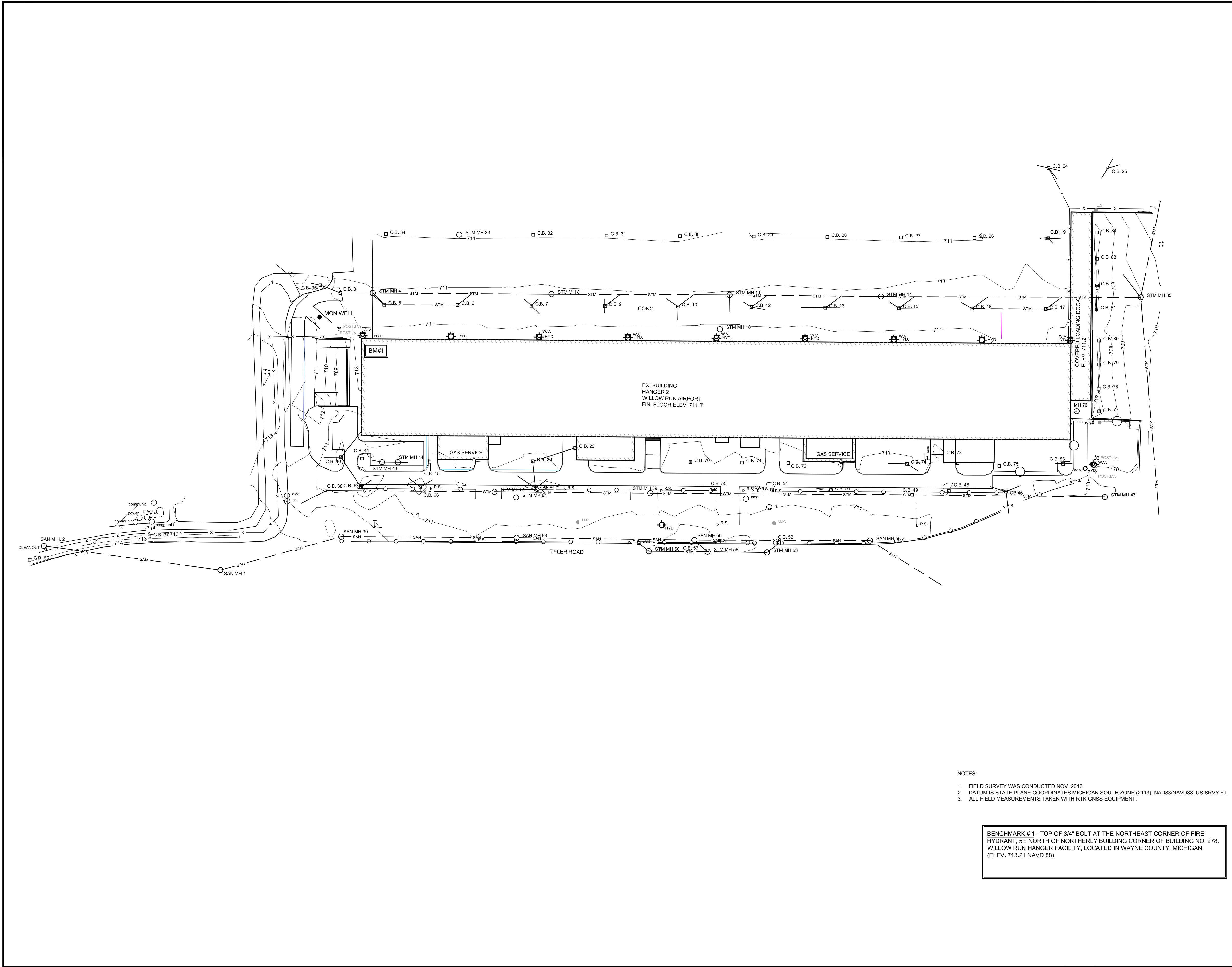
WAYNE COUNTY AIRPORT AUTHORITY
Ypsilanti, Michigan



CRA ENGINEERING INC.

DRAFT

081129-H2C(003)GN-DE001 DEC 17/2013



- NOTES:
1. FIELD SURVEY WAS CONDUCTED NOV. 2013.
 2. DATUM IS STATE PLANE COORDINATES, MICHIGAN SOUTH ZONE (2113), NAD83/NAVD88, US SRVY FT.
 3. ALL FIELD MEASUREMENTS TAKEN WITH RTK GNSS EQUIPMENT.

BENCHMARK # 1 - TOP OF 3/4" BOLT AT THE NORTHEAST CORNER OF FIRE HYDRANT, 54' NORTH OF NORTHERLY BUILDING CORNER OF BUILDING NO. 278, WILLOW RUN HANGER FACILITY, LOCATED IN WAYNE COUNTY, MICHIGAN. (ELEV. 713.21 NAVD 88)

No	Revision	Date	Initial

LEGEND

	EX. CONTOUR
	EX. STORM
	EX. CATCH BASIN
	EX. SANITARY
	EX. SANITARY MANHOLE
	EX. WATERMAIN
	EX. HYDRANT
	EX. UTILITY POLE
	EX. FENCE
	EX. CLEANOUT
	EX. BOLLARD
	EX. GUARDRAIL
	EX. GAS SERVICE

DRAFT

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.



Approved

DRAWING STATUS

Status	Date	Initial

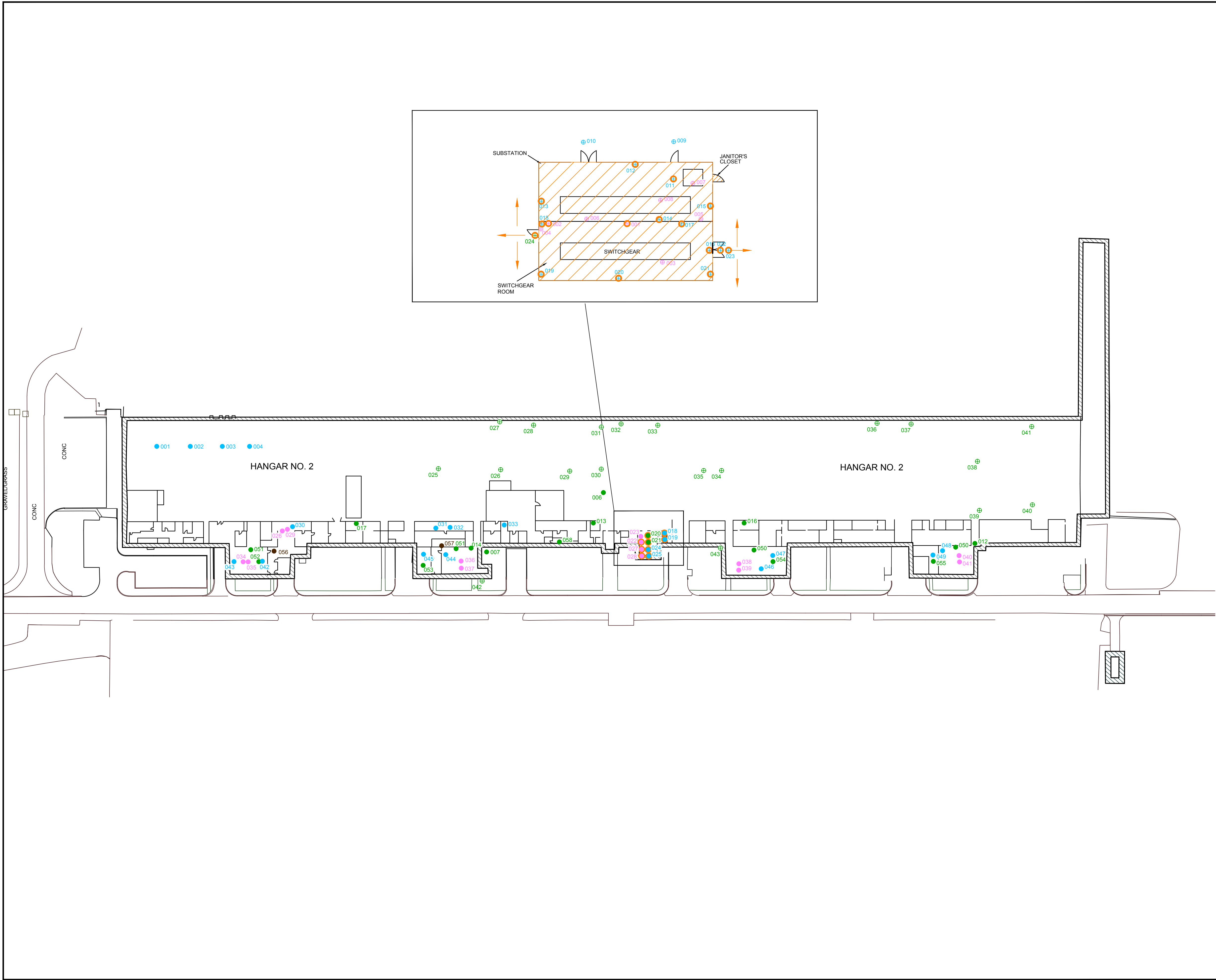
BUILDING HANGAR # 2 DECOMMISSIONING
SITE PLAN

TOPOGRAPHICAL MAP

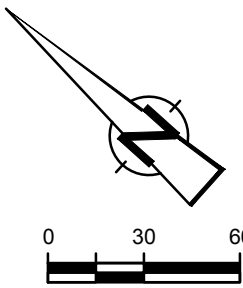
WAYNE COUNTY AIRPORT AUTHORITY
DETROIT METROPOLITAN AIRPORT



Source Reference:			
Project Manager:	Reviewed By:	Date:	
R. SCHLOESSER	M. LAMB	DECEMBER 2013	
Scale:	Project N ^o :	Report N ^o :	Drawing N ^o :
1:80	081129-H2C	003	2



No	Revision	Date	Initial



- LEGEND
- CONCRETE CORE SAMPLE COLLECTED IN 2013
 - SOLID MATERIAL SAMPLE COLLECTED IN 2013
 - WIPE SAMPLE SAMPLE COLLECTED IN 2013
 - OIL SAMPLE SAMPLE COLLECTED IN 2013
 - SAMPLE RESULT EXCEEDS SCREENING CRITERIA (REFERENCE TABLE 7 FOR DETAILS)
 - ⊕ CONCRETE CORE SAMPLE COLLECTED IN 2014
 - ⊕ SOLID MATERIAL SAMPLE COLLECTED IN 2014
 - ⊕ WIPE SAMPLE SAMPLE COLLECTED IN 2014

- ▨ DELINEATED AREA REGULATED BY TSCA
- PCB DELINEATION NOT COMPLETE IN THIS DIRECTION

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.



Approved

DRAWING STATUS

Status	Date	Initial

SAMPLE LOCATIONS FIRST FLOOR
HANGAR # 2

YPSILANTI, MICHIGAN

WAYNE COUNTY AIRPORT AUTHORITY



CRA ENGINEERING INC.

Source Reference:

Project Manager: B. S.	Reviewed By: B. H.	Date: MARCH 2014
Scale: 1:60	Project N ^o : 081129-H2C	Report N ^o : 003
		Drawing N ^o : figure 3

TABLE 1

REGULATED MATERIALS
WCAA - BUILDING DECOMMISSIONING ASSESSMENT
HANGAR 2

AREA	Sub-Area	Fluorescent Lights										Additional Regulated Materials							
		4, 6 bulb, HID Fluorescent	8, 2 bulb, 1 ballast	8, 1 bulb, 1 ballast	4, 4 bulb, 1 ballast	4, 3 bulb, 1 ballast	4, 2 bulb, 1 ballast	4, 1 bulb, 1 ballast	3' bulb, 1 ballast	e-waste	Oil Containing Equipment	Emergency Equipment	Exit Signs (lights & batteries)	Mercury Devices (lights & batteries)	Smoke Detectors	CFCs	HID Lights		
Bay 1	Bay Area, col. A8 to A15	9	1				297						3				11		
	Dock Offices (in Bay Area)				21								1						
	1st Floor Offices/Work Area		10		20		15			2							3		
	2nd Floor Offices		2				75					1	2		2				
	Heater Room #4									7			7				20		
Bay 2	Bay Area, col. A1 to A8	4					302		2		1		2				10		
	1st Floor Offices/Work Area		30		24		13										1		
	2nd Floor Offices				102						1		2				10		
Bay 3	Bay Area, col. A15 to A22						308				1						8		
	1st Floor Offices/Work Area		18		2		7										5		
	2nd Floor Corridor				20								1	1					
	2nd Floor Offices		10		50				1										
	Heater Room #3						3			5+							6		
Bay 4	Bay Area, col. A22 to A29		3				306				1	1	2				16		
	Pump Room (estimated, unable to access)						2						2						
	Exterior Switchgear Room						9												
	1st Floor Offices/Work Area		12		2		9		2		2		1						
	2nd Floor Corridor				21									2					
	2nd Floor Offices				73								2						
Bay 5	Bay Area, col. 29 to 36						324										8		
	Bay Area Offices		19		26		88				1						7		
	1st Floor Offices/Work Area		2		45		8										6	1	
	2nd Floor Corridor				26						1	1	1						
	2nd Floor Offices				56				4	3	2		1						
	2nd Floor Crane									1									
Bay 6	Bay Area, col.36 to 43						275						2				14		
	1st Floor Offices/Work Area		9		2		2		5+			1					1	6	
	NDT Lab		2				7		5+	5+			2				1		
	Heater Room #2		2							5+			5				6		
	2nd Floor Corridor				14							2					1		
	2nd Floor Offices				24		11						2						
Bay 7	Bay Area, col. 43 to 50						308						2				11		
	Bay Area Offices		12		2		4										3		
	1st Floor Offices/Work Area		12	4	10		23		3										
	Heater Room #2/ Air Compressor Room						4			5+			11				6		
	2nd Floor Corridor				14						2	1	2				1		
	2nd Floor Offices		2		50				5+										
Bay 8	Bay Area, col. 50 to 57						324		5+				2				15		
	Bay Area Offices		11		20								1				3		
	1st Floor Offices/Work Area		7		49		1		5+				2						
	2nd Floor Corridors				30						1	4	2						
	2nd Floor Offices		1		21			3	5+				1						
Hangar 2 Exterior	exterior surfaces of Hangar 2																2	75	
TOTALS		13	165	4	724	0	2,725	3	4	11	10	13	11	61	3	36	223		

Note: Not all Regulated Materials may have been visible during the survey.
 Totals to be verified by Contractor.

TABLE 2
SAMPLE KEY
WCAA - BUILDING DECOMMISSIONING ASSESSMENT
HANGAR 2

SAMPLE ID	SUB-AREA DESCR.	AREA/ITEM DESCRIPTION	MATRIX	ANALYTES	COMMENTS	SAMPLE LOCATION NOTES
CC-081129-111913-SM-001	Main Floor Area	Flooring	Concrete	TCLP Metals, PCBs	bias towards current/former catch basin locations	at cement filled sump in northeast corner
CC-081129-111913-SM-002	Main Floor Area	Flooring	Concrete	TCLP Metals, PCBs	bias towards current/former catch basin locations	at next cement filled sump south of Sample 001
CC-081129-111913-SM-003	Main Floor Area	Flooring	Concrete	TCLP Metals, PCBs	bias towards current/former catch basin locations	at next cement filled sump south of Sample 002
CC-081129-111913-SM-004	Main Floor Area	Flooring	Concrete	TCLP Metals, PCBs	bias towards current/former catch basin locations	at open sump south of Sample 003
S-081129-120313-SM-006	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building slab and exterior brick wall	floor expansion joint at south extent of column line 29
S-081129-120313-SM-007	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building slab and exterior brick wall	vertical expansion joint in exterior brick wall on west side at Fan Room 2
S-081129-120313-SM-012	Main Floor Area	Paint	Solid	PCBs	composite if other misc colors/vintages observed	white/brown paint on east side of fire door and tan/brown paint on west side of fire door at Fan Room No. 4
S-081129-120313-SM-013	Main Floor Area	Paint	Solid	PCBs	composite if other misc colors/vintages observed	light blue over white paint on 'Room 55' at Column A29
S-081129-120313-SM-014	Main Floor Area	Paint	Solid	PCBs	composite if other misc colors/vintages observed	tan paint on brick walls in Fan Room No. 2
S-081129-120313-SM-016	Main Floor Area - Offices	Paint	Solid	PCBs	composite of white/grey paint for each half of Hanger #2	white/black/grey paint from electrical panels plus white/tan paint on drainage pipe - North Half Hangar
S-081129-120313-SM-017	Main Floor Area - Offices	Paint	Solid	PCBs	composite of white/grey paint for each half of Hanger #2	grey/white paint on plywood across from third hangar door from south end - South Half Hangar
CC-081129-111913-SM-018	Main Floor Area - Substation	Flooring	Concrete	PCBs	former substation location	at entrance to existing substation
CC-081129-111913-SM-019	Main Floor Area - Substation	Flooring	Concrete	PCBs	former substation location	in former secondary containment in southwest corner of existing substation
S-081129-120313-SM-020	Main Floor Area - Substation	Electrical Equipment - Transformers	Sludge	PCBs	XYZ transformer leaking on floor in corner	substation at Columns A26/27
S-081129-120313-SM-021	Main Floor Area - Substation	Electrical Equipment - Transformers	Solid	PCBs	XYZ transformer cable wrap on floor in corner	substation at Columns A26/27
W-081129-111913-SM-022	Main Floor Area - Substation	Electrical Equipment - Transformers	Wipe	PCBs	current and former transformer equipment	bottom of black electrical panels on west side
W-081129-111913-SM-023	Main Floor Area - Substation	Electrical Equipment - Transformers	Wipe	PCBs	current and former transformer equipment	bottom of black electrical panels on east side
CC-081129-111913-SM-024	Main Floor Area - Switchgear Room	Flooring	Concrete	PCBs	bias towards staining	west side of switchgear room (modern switchgear)
CC-081129-111913-SM-025	Main Floor Area - Switchgear Room	Flooring	Concrete	PCBs	bias towards staining	east side of switchgear room (modern switchgear)
W-081129-120313-SM-026	Main Floor Area - Air Compressor Room	Air Compressor Equipment	Wipe	PCBs	bias towards staining	west air compressor near Column A46 outside Fan Room No. 1
W-081129-111913-SM-027	Main Floor Area - Switchgear Room	Electrical Equipment - Switchgear	Wipe	PCBs	bias towards staining	red electrical junction box in southeast corner
W-081129-111913-SM-028	Main Floor Area - Switchgear Room	Electrical Equipment - Switchgear	Wipe	PCBs	bias towards staining	copper grounding bar on east wall
W-081129-120313-SM-029	Main Floor Area - Air Compressor Room	Air Compressor Equipment	Wipe	PCBs	bias towards staining	east air compressor near Column A46 outside Fan Room No. 1
CC-081129-111913-SM-030	Main Floor Area - Air Compressor Room	Air Compressor Equipment	Concrete	PCBs	bias towards staining	floor at northeast corner of air compressor room
CC-081129-111913-SM-031	Main Floor Area - Electrical Shop	Flooring	Concrete	PCBs	bias towards staining	at west entrance between electrical shop and storage room
CC-081129-111913-SM-032	Main Floor Area - Electrical Shop	Flooring	Concrete	PCBs	bias towards staining	at main entrance to electrical shop
CC-081129-111913-SM-033	Main Floor Area - Hazardous Materials Storage Area	Flooring	Concrete	TCLP Metals, PCBs	bias towards staining	center of room located just south of Fan Room No. 2
W-081129-120313-SM-034	Main Floor Area - Boiler/Fan Rooms	Fan Room Equipment	Wipe	PCBs	wipe of oil releases from motors or fan axel located in each of four (4) boiler/fan room locations	Fan Room No. 1 axel at Column A46
W-081129-120313-SM-035	Main Floor Area - Boiler/Fan Rooms	Fan Room Equipment	Wipe	PCBs	wipe of oil releases from motors or fan axel located in each of four (4) boiler/fan room locations	Fan Room No. 1 shroud at Column A46
W-081129-120313-SM-036	Main Floor Area - Boiler/Fan Rooms	Fan Room Equipment	Wipe	PCBs	wipe of oil releases from motors or fan axel located in each of four (4) boiler/fan room locations	Fan Room No. 2 axel at Column A36/37
W-081129-120313-SM-037	Main Floor Area - Boiler/Fan Rooms	Fan Room Equipment	Wipe	PCBs	wipe of oil releases from motors or fan axel located in each of four (4) boiler/fan room locations	Fan Room No. 2 shroud at Column A36/37
W-081129-120313-SM-038	Main Floor Area - Boiler/Fan Rooms	Fan Room Equipment	Wipe	PCBs	wipe of oil releases from motors or fan axel located in each of four (4) boiler/fan room locations	Fan Room No. 3 axel at Column A21/22
W-081129-120313-SM-039	Main Floor Area - Boiler/Fan Rooms	Fan Room Equipment	Wipe	PCBs	wipe of oil releases from motors or fan axel located in each of four (4) boiler/fan room locations	Fan Room No. 3 shroud at Column A21/22

TABLE 2
SAMPLE KEY
WCAA - BUILDING DECOMMISSIONING ASSESSMENT
HANGAR 2

SAMPLE ID	SUB-AREA DESCR.	AREA/ITEM DESCRIPTION	MATRIX	ANALYTES	COMMENTS	SAMPLE LOCATION NOTES
W-081129-120313-SM-040	Main Floor Area - Boiler/Fan Rooms	Fan Room Equipment	Wipe	PCBs	wipe of oil releases from motors or fan axel located in each of four (4) boiler/fan room locations	Fan Room No. 4 axel at Column A7/8
W-081129-120313-SM-041	Main Floor Area - Boiler/Fan Rooms	Fan Room Equipment	Wipe	PCBs	wipe of oil releases from motors or fan axel located in each of four (4) boiler/fan room locations	Fan Room No. 4 shroud at Column A7/8
CC-081129-111913-SM-042	Main Floor Area - Boiler/Fan Rooms	Flooring	Concrete	PCBs	bias towards staining	Boiler Room No. 1
CC-081129-111913-SM-043	Main Floor Area - Boiler/Fan Rooms	Flooring	Concrete	PCBs	bias towards staining	Fan Room No. 1
CC-081129-111913-SM-044	Main Floor Area - Boiler/Fan Rooms	Flooring	Concrete	PCBs	bias towards staining	Fan Room No. 2
CC-081129-111913-SM-045	Main Floor Area - Boiler/Fan Rooms	Flooring	Concrete	PCBs	bias towards staining	Boiler Room No. 2
CC-081129-111913-SM-046	Main Floor Area - Boiler/Fan Rooms	Flooring	Concrete	PCBs	bias towards staining	Fan Room No. 3
CC-081129-111913-SM-047	Main Floor Area - Boiler/Fan Rooms	Flooring	Concrete	PCBs	bias towards staining	Boiler Room No. 3
CC-081129-111913-SM-048	Main Floor Area - Boiler/Fan Rooms	Flooring	Concrete	PCBs	bias towards staining	Fan Room No. 4
CC-081129-111913-SM-049	Main Floor Area - Boiler/Fan Rooms	Flooring	Concrete	PCBs	bias towards staining	Boiler Room No. 4
S-081129-120313-SM-050	Main Floor Area - Boiler/Fan Rooms	Paint	Solid	PCBs	composite of black paint on fan room equipment for each half of Hanger #2	Fan Rooms No. 3 and 4
S-081129-120313-SM-051	Main Floor Area - Boiler/Fan Rooms	Paint	Solid	PCBs	composite of black paint on fan room equipment for each half of Hanger #2	Fan Rooms No. 1 and 2
S-081129-120313-SM-052	Main Floor Area - Boiler/Fan Rooms	Fire Brick/Boiler Debris	Solid	TCLP Metals, PCBs	collect debris inside one of the boilers located in each of four (4) boiler/fan room locations	Fire Brick at Boiler Room No. 1
S-081129-120313-SM-053	Main Floor Area - Boiler/Fan Rooms	Fire Brick/Boiler Debris	Solid	TCLP Metals, PCBs	collect debris inside one of the boilers located in each of four (4) boiler/fan room locations	Fire Brick at Boiler Room No. 2
S-081129-120313-SM-054	Main Floor Area - Boiler/Fan Rooms	Fire Brick/Boiler Debris	Solid	TCLP Metals, PCBs	collect debris inside one of the boilers located in each of four (4) boiler/fan room locations	Fire Brick at Boiler Room No. 3
S-081129-120313-SM-055	Main Floor Area - Boiler/Fan Rooms	Fire Brick/Boiler Debris	Solid	TCLP Metals, PCBs	collect debris inside one of the boilers located in each of four (4) boiler/fan room locations	Fire Brick at Boiler Room No. 4
O-081129-120313-SM-056	Main Floor Area - Boiler/Fan Rooms	Door Hinge Reservoirs	Oil	PCBs	collect oil samples from vintange style hinge oil reservoirs on various doorways	Door Between Boiler Room/Fan Room No. 1
O-081129-120313-SM-057	Main Floor Area - Boiler/Fan Rooms	Door Hinge Reservoirs	Oil	PCBs	collect oil samples from vintange style hinge oil reservoirs on various doorways	Door Between Boiler Room/Fan Room No. 2
S-081129-120313-SM-058	Main Floor Area - First Floor Office	Window Caulk	Solid	PCBs		white modern caulk on central west windows
W-081129-011714-EPM-001	Main Floor Area - Switchgear Room	Electrical Equipment	Wipe	PCBs	current and former transformer equipment	bus duct tray, east wall
W-081129-011714-EPM-002	Main Floor Area - Switchgear Room	Electrical Equipment	Wipe	PCBs	current and former transformer equipment	dry type transformer, east wall
W-081129-011714-EPM-003	Main Floor Area - Switchgear Room	Electrical Equipment	Wipe	PCBs	current and former transformer equipment	switchgear panel, west face of equipment
W-081129-011714-EPM-004	Main Floor Area - Switchgear Room	Man Door	Wipe	PCBs	metal surface inside switchgear room	inside surface of single man door, north wall
W-081129-011714-EPM-005	Main Floor Area - Substation	Electrical Equipment	Wipe	PCBs	current and former transformer equipment	black auxillary electrical panel, west wall
W-081129-011714-EPM-006	Main Floor Area - Substation	Electrical Equipment	Wipe	PCBs	current and former transformer equipment	bus duct tray, west wall
W-081129-011714-EPM-007	Main Floor Area - Substation	Electrical Equipment	Wipe	PCBs	current and former transformer equipment	3-phase Westinghouse Transformer in southeast corner, apparent cold storage
W-081129-011714-EPM-008	Main Floor Area - Substation	Electrical Equipment	Wipe	PCBs	current and former transformer equipment	Westinghouse Dry Type Transformer panel surface, southeast corner
CC-081129-011714-EPM-009	Main Floor Area - Substation	Flooring	Concrete	PCBs	Delineation of flooring around entrances to substation to confirm extent of impacts	10' to exterior of single man door, southeast corner
CC-081129-011714-EPM-010	Main Floor Area - Substation	Flooring	Concrete	PCBs	Delineation of flooring around entrances to substation to confirm extent of impacts	10' to exterior of double door, east side
CC-081129-011714-EPM-011	Main Floor Area - Substation	Flooring	Concrete	PCBs	Delineation of flooring around entrances to substation to confirm extent of impacts	5' to interior of single man door, southeast corner
CC-081129-011714-EPM-012	Main Floor Area - Substation	Wall	Concrete	PCBs	Delineation of walls to confirm impacts are limited to substation area	east wall, between double and single man doors
CC-081129-011714-EPM-013	Main Floor Area - Substation	Wall	Concrete	PCBs	Delineation of walls to confirm impacts are limited to substation area	north wall
CC-081129-011714-EPM-014	Main Floor Area - Substation	Wall	Concrete	PCBs	Delineation of walls to confirm impacts are limited to substation area	west wall
CC-081129-011714-EPM-015	Main Floor Area - Substation	Wall	Concrete	PCBs	Delineation of walls to confirm impacts are limited to substation area	south wall

TABLE 2
SAMPLE KEY
WCAA - BUILDING DECOMMISSIONING ASSESSMENT
HANGAR 2

SAMPLE ID	SUB-AREA DESCR.	AREA/ITEM DESCRIPTION	MATRIX	ANALYTES	COMMENTS	SAMPLE LOCATION NOTES
CC-081129-011714-EPM-016	Main Floor Area - Switchgear Room	Flooring	Concrete	PCBs	Delineation of flooring around entrances to substation to confirm extent of impacts	interior, at double doors at south end
CC-081129-011714-EPM-017	Main Floor Area - Switchgear Room	Wall	Concrete	PCBs	Delineation of walls to confirm impacts are limited to substation area	wall near double doors, southeast corner
CC-081129-011714-EPM-018	Main Floor Area - Switchgear Room	Flooring	Concrete	PCBs	Delineation of flooring around entrances to substation to confirm extent of impacts	floor inside single door entry, north end
CC-081129-011714-EPM-019	Main Floor Area - Switchgear Room	Wall	Concrete	PCBs	Delineation of walls to confirm impacts are limited to substation area	north wall, to the right of single man door
CC-081129-011714-EPM-020	Main Floor Area - Switchgear Room	Wall	Concrete	PCBs	Delineation of walls to confirm impacts are limited to substation area	west wall
CC-081129-011714-EPM-021	Main Floor Area - Switchgear Room	Wall	Concrete	PCBs	Delineation of walls to confirm impacts are limited to substation area	south wall
CC-081129-021414-EPM-022	West Exterior - Switchgear Room	Exterior Concrete	Concrete	PCBs	Delineation 10 feet east from west double doors to switchgear room	exterior concrete slab
CC-081129-021414-EPM-023	West Exterior - Switchgear Room	Exterior Concrete	Concrete	PCBs	Delineation 20 feet east from west double doors to switchgear room	exterior concrete slab
SO-081129-021414-EPM-024	East Exterior - Switchgear Room	Exterior Soil	Solid	PCBs	Delineation at west door of switchgear room	exterior ground at west switchgear door
S-081129-021414-EPM-025	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building slab	central lengthwise floor expansion joint between column lines 38 and 39
S-081129-021414-EPM-026	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building slab	central lengthwise floor expansion joint at column line 35
S-081129-021414-EPM-027	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building slab	hangar door floor expansion joint between columns 29 to 36
S-081129-021414-EPM-028	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building slab	hangar door floor expansion joint between columns 29 to 36
S-081129-021414-EPM-029	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building slab	central lengthwise floor expansion joint at column line 31
S-081129-021414-EPM-030	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building slab	central lengthwise floor expansion joint at column line 29
S-081129-021414-EPM-031	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building slab	floor expansion joint at north extent of column line 29
S-081129-021414-EPM-032	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building slab	hangar door floor expansion joint between columns 22 to 29
S-081129-021414-EPM-033	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building slab	hangar door floor expansion joint between columns 22 to 29
S-081129-021414-EPM-034	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building slab	central lengthwise floor expansion joint at column line 22
S-081129-021414-EPM-035	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building slab	central lengthwise floor expansion joint at column line 23
S-081129-021414-EPM-036	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building slab	hangar door floor expansion joint between columns 8 to 15
S-081129-021414-EPM-037	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building slab	hangar door floor expansion joint between columns 8 to 15
S-081129-021414-EPM-038	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building slab	central lengthwise floor expansion joint at column line 7
S-081129-021414-EPM-039	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building slab	floor expansion joint at south extent of column line 7
S-081129-021414-EPM-040	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building slab	floor expansion joint at south extent of column line 4
S-081129-021414-EPM-041	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building slab	floor expansion joint at north extent of column line 4
S-081129-021414-EPM-042	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building exterior	vertical expansion joint in exterior brick wall at southeast corner of Fan Room 2
S-081129-021414-EPM-043	Main Floor Area	Expansion Joints	Solid	PCBs	expansion joints in building exterior	vertical expansion joint in exterior brick wall at northwest corner of Fan Room 3

NOTES:

PCBs - polychlorinated biphenyls
RCRA - Resource Conservation Recovery Act
SVOCs - semi-volatile organic compounds
VOCs - volatile organic compounds
TCLP - Toxicity Characteristic Leaching Procedure

TABLE 3
ANALYTICAL RESULTS SUMMARY - CONCRETE, BRICK, BLOCK, AND SOIL
WCAA - BUILDING DECOMMISSIONING ASSESSMENT
HANGAR 2

Field ID #			1	2	3	4	18	19	24	25
Sample Identification	RCRA	TSCA (1)	CC-081129-111913-SM-001	CC-081129-111913-SM-002	CC-081129-111913-SM-003	CC-081129-111913-SM-004	CC-081129-111913-SM-018	CC-081129-111913-SM-019	CC-081129-111913-SM-024	CC-081129-111913-SM-025
Sample Date			11/19/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013
Area/Building			Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2
Sub-Area Descr			Main Floor Area	Main Floor Area	Main Floor Area	Main Floor Area	Main Floor Area - Substation	Main Floor Area - Substation	Main Floor Area - Switchgear Room	Main Floor Area - Switchgear Room
Area/Item Description			Flooring	Flooring	Flooring	Flooring	Flooring	Flooring	Flooring	Flooring
Comments	a	b	bias towards current/former catch basin locations	bias towards current/former catch basin locations	bias towards current/former catch basin locations	bias towards current/former catch basin locations	former substation location	former substation location	bias towards staining	bias towards staining
Notes	Units		at cement filled sump in northeast corner	at next cement filled sump south of Sample 001	at next cement filled sump south of Sample 002	at open sump south of Sample 003	at entrance to existing substation	in former secondary containment in southwest corner of existing substation	west side of switchgear room (modern switchgear)	east side of switchgear room (modern switchgear)
TCLP-Metals										
Arsenic	mg/L	5	0.50 U	0.50 U	0.50 U	0.50 U	-	-	-	-
Barium	mg/L	100	10 U	10 U	10 U	10 U	-	-	-	-
Cadmium	mg/L	1	0.10 U	0.10 U	0.10 U	0.10 U	-	-	-	-
Chromium	mg/L	5	0.50 U	0.50 U	0.50 U	0.50 U	-	-	-	-
Lead	mg/L	5	0.50 U	0.50 U	0.50 U	0.50 U	-	-	-	-
Mercury	mg/L	0.2	0.0020 U	0.0020 U	0.0020 U	0.0020 U	-	-	-	-
Selenium	mg/L	1	0.25 U	0.25 U	0.25 U	0.25 U	-	-	-	-
Silver	mg/L	5	0.50 U	0.50 U	0.50 U	0.50 U	-	-	-	-
PCBs										
Aroclor-1016 (PCB-1016)	mg/kg		0.2 U	0.2 U	0.2 U	0.2 U	1 U	2 U	400 U	2.1 U
Aroclor-1221 (PCB-1221)	mg/kg		0.2 U	0.2 U	0.2 U	0.2 U	1 U	2 U	400 U	2.1 U
Aroclor-1232 (PCB-1232)	mg/kg		0.2 U	0.2 U	0.2 U	0.2 U	1 U	2 U	400 U	2.1 U
Aroclor-1242 (PCB-1242)	mg/kg		0.2 U	0.2 U	0.2 U	0.2 U	1 U	2 U	400 U	2.1 U
Aroclor-1248 (PCB-1248)	mg/kg		0.2 U	0.2 U	0.2 U	0.2 U	1 U	2 U	400 U	2.1 U
Aroclor-1254 (PCB-1254)	mg/kg		0.2 U	0.2 U	0.2 U	0.2 U	1 U	2 U	400 U	2.1 U
Aroclor-1260 (PCB-1260)	mg/kg		0.2 U	0.2 U	0.2 U	0.2 U	2.4	9.4	4300	26
Total PCBs	mg/kg	1	ND	ND	ND	ND	2.4 ^b	9.4 ^b	4300 ^b	26 ^b

Notes:

U - Not detected at the associated reporting limit.

RCRA -Resource Conservation Recovery Act (RCRA) criteria for the toxicity characteristic (40 CFR 261.24).

TSCA (1) - Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).

TABLE 3
ANALYTICAL RESULTS SUMMARY - CONCRETE, BRICK, BLOCK, AND SOIL
WCAA - BUILDING DECOMMISSIONING ASSESSMENT
HANGAR 2

Field ID #			30	31	32	33	42	43	44
Sample Identification	RCRA	TSCA (1)	CC-081129-111913-SM-030	CC-081129-111913-SM-031	CC-081129-111913-SM-032	CC-081129-111913-SM-033	CC-081129-111913-SM-042	CC-081129-111913-SM-043	CC-081129-111913-SM-044
Sample Date			11/19/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013
Area/Building			Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2
Sub-Area Descr			Main Floor Area - Air Compressor Room	Main Floor Area - Electrical Shop	Main Floor Area - Electrical Shop	Main Floor Area - Hazardous Materials Storage Area	Main Floor Area - Boiler/Fan Rooms	Main Floor Area - Boiler/Fan Rooms	Main Floor Area - Boiler/Fan Rooms
Area/Item Description			Air Compressor Equipment	Flooring	Flooring	Flooring	Flooring	Flooring	Flooring
Comments	a	b	bias towards staining	bias towards staining	bias towards staining	bias towards staining	bias towards staining	bias towards staining	bias towards staining
Notes			floor at northeast corner of air compressor room	at west entrance between electrical shop and storage room	at main entrance to electrical shop	center of room located just south of Fan Room No. 2	Boiler Room No. 1	Fan Room No. 1	Fan Room No. 2
	Units								
TCCLP-Metals									
Arsenic	mg/L	5	-	-	-	0.50 U	-	-	-
Barium	mg/L	100	-	-	-	10 U	-	-	-
Cadmium	mg/L	1	-	-	-	0.10 U	-	-	-
Chromium	mg/L	5	-	-	-	0.50 U	-	-	-
Lead	mg/L	5	-	-	-	0.50 U	-	-	-
Mercury	mg/L	0.2	-	-	-	0.0020 U	-	-	-
Selenium	mg/L	1	-	-	-	0.25 U	-	-	-
Silver	mg/L	5	-	-	-	0.50 U	-	-	-
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg		0.2 U	0.2 U	0.21 U	0.21 U	0.2 U	0.2 U	0.2 U
Aroclor-1221 (PCB-1221)	mg/kg		0.2 U	0.2 U	0.21 U	0.21 U	0.2 U	0.2 U	0.2 U
Aroclor-1232 (PCB-1232)	mg/kg		0.2 U	0.2 U	0.21 U	0.21 U	0.2 U	0.2 U	0.2 U
Aroclor-1242 (PCB-1242)	mg/kg		0.2 U	0.2 U	0.21 U	0.21 U	0.2 U	0.2 U	0.2 U
Aroclor-1248 (PCB-1248)	mg/kg		0.2 U	0.2 U	0.21 U	0.21 U	0.2 U	0.2 U	0.2 U
Aroclor-1254 (PCB-1254)	mg/kg		0.2 U	0.2 U	0.21 U	0.21 U	0.2 U	0.2 U	0.2 U
Aroclor-1260 (PCB-1260)	mg/kg		0.2 U	0.2 U	0.21 U	0.21 U	0.2 U	0.2 U	0.2 U
Total PCBs	mg/kg	1	ND	ND	ND	ND	ND	ND	ND

Notes:

U - Not detected at the associated reporting limit.

RCRA -Resource Conservation Recovery Act (RCRA) criteria for the toxicity characteristic (40 CFR 261.24).

TSCA (1) - Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).

TABLE 3
ANALYTICAL RESULTS SUMMARY - CONCRETE, BRICK, BLOCK, AND SOIL
WCAA - BUILDING DECOMMISSIONING ASSESSMENT
HANGAR 2

Field ID #			45	46	47	48	49	EPM-009	EPM-010	EPM-011
Sample Identification	RCRA	TSCA (1)	CC-081129-111913-SM-045	CC-081129-111913-SM-046	CC-081129-111913-SM-047	CC-081129-111913-SM-048	CC-081129-111913-SM-049	CC-081129-011714-EPM-009	CC-081129-011714-EPM-010	CC-081129-011714-EPM-011
Sample Date			11/19/2013	11/19/2013	11/19/2013	11/19/2013	11/19/2013	1/17/2014	1/17/2014	1/17/2014
Area/Building			Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2
Sub-Area Descr			Main Floor Area - Boiler/Fan Rooms	Main Floor Area - Boiler/Fan Rooms	Main Floor Area - Boiler/Fan Rooms	Main Floor Area - Boiler/Fan Rooms	Main Floor Area - Boiler/Fan Rooms	Main Floor Area - Substation	Main Floor Area - Substation	Main Floor Area - Substation
Area/Item Description			Flooring	Flooring	Flooring	Flooring	Flooring	Flooring	Flooring	Flooring
Comments	a	b	bias towards staining	bias towards staining	bias towards staining	bias towards staining	bias towards staining	Delineation of flooring around entrances to substation to confirm extent of impacts 10' to exterior of single man door, southeast corner	Delineation of flooring around entrances to substation to confirm extent of impacts 10' to exterior of double door, east side	Delineation of flooring around entrances to substation to confirm extent of impacts 5' to interior of single man door, southeast corner
Notes	Units		Boiler Room No. 2	Fan Room No. 3	Boiler Room No. 3	Fan Room No. 4	Boiler Room No. 4			
TCLP-Metals										
Arsenic	mg/L	5	-	-	-	-	-	-	-	-
Barium	mg/L	100	-	-	-	-	-	-	-	-
Cadmium	mg/L	1	-	-	-	-	-	-	-	-
Chromium	mg/L	5	-	-	-	-	-	-	-	-
Lead	mg/L	5	-	-	-	-	-	-	-	-
Mercury	mg/L	0.2	-	-	-	-	-	-	-	-
Selenium	mg/L	1	-	-	-	-	-	-	-	-
Silver	mg/L	5	-	-	-	-	-	-	-	-
PCBs										
Aroclor-1016 (PCB-1016)	mg/kg		0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
Aroclor-1221 (PCB-1221)	mg/kg		0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
Aroclor-1232 (PCB-1232)	mg/kg		0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
Aroclor-1242 (PCB-1242)	mg/kg		0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
Aroclor-1248 (PCB-1248)	mg/kg		0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
Aroclor-1254 (PCB-1254)	mg/kg		0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4 U
Aroclor-1260 (PCB-1260)	mg/kg		0.21 U	0.2 U	0.2 U	0.2 U	0.25	0.62	0.2 U	1.7
Total PCBs	mg/kg	1	ND	ND	ND	ND	0.25	0.62	ND	1.7 ^b

Notes:

U - Not detected at the associated reporting limit.

RCRA -Resource Conservation Recovery Act (RCRA) criteria for the toxicity characteristic (40 CFR 261.24).

TSCA (1) - Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).

TABLE 3
ANALYTICAL RESULTS SUMMARY - CONCRETE, BRICK, BLOCK, AND SOIL
WCAA - BUILDING DECOMMISSIONING ASSESSMENT
HANGAR 2

Field ID #			EPM-012	EPM-013	EPM-014	EPM-015	EPM-016	EPM-017	EPM-018	EPM-019
Sample Identification	RCRA	TSCA (1)	CC-081129-011714-EPM-012	CC-081129-011714-EPM-013	CC-081129-011714-EPM-014	CC-081129-011714-EPM-015	CC-081129-011714-EPM-016	CC-081129-011714-EPM-017	CC-081129-011714-EPM-018	CC-081129-011714-EPM-019
Sample Date			1/17/2014	1/17/2014	1/17/2014	1/17/2014	1/17/2014	1/17/2014	1/17/2014	1/17/2014
Area/Building			Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2
Sub-Area Descr			Main Floor Area - Substation	Main Floor Area - Substation	Main Floor Area - Substation	Main Floor Area - Substation	Main Floor Area - Switchgear Room	Main Floor Area - Switchgear Room	Main Floor Area - Switchgear Room	Main Floor Area - Switchgear Room
Area/Item Description			Wall	Wall	Wall	Wall	Flooring	Wall	Flooring	Wall
Comments	a	b	Delineation of walls to confirm impacts are limited to substation area east wall, between double and single man doors	Delineation of walls to confirm impacts are limited to substation area north wall	Delineation of walls to confirm impacts are limited to substation area west wall	Delineation of walls to confirm impacts are limited to substation area south wall	Delineation of flooring around entrances to substation to confirm extent of impacts interior, at double doors at south end	Delineation of walls to confirm impacts are limited to substation area wall near double doors, southeast corner	Delineation of flooring around entrances to substation to confirm extent of impacts floor inside single door entry, north end	Delineation of walls to confirm impacts are limited to substation area north wall, to the right of single man door
Notes										
	Units									
TCLP-Metals										
Arsenic	mg/L	5	-	-	-	-	-	-	-	-
Barium	mg/L	100	-	-	-	-	-	-	-	-
Cadmium	mg/L	1	-	-	-	-	-	-	-	-
Chromium	mg/L	5	-	-	-	-	-	-	-	-
Lead	mg/L	5	-	-	-	-	-	-	-	-
Mercury	mg/L	0.2	-	-	-	-	-	-	-	-
Selenium	mg/L	1	-	-	-	-	-	-	-	-
Silver	mg/L	5	-	-	-	-	-	-	-	-
PCBs										
Aroclor-1016 (PCB-1016)	mg/kg		2 U	0.99 U	2 U	2 U	1000 U	40 U	4.1 U	2 U
Aroclor-1221 (PCB-1221)	mg/kg		2 U	0.99 U	2 U	2 U	1000 U	40 U	4.1 U	2 U
Aroclor-1232 (PCB-1232)	mg/kg		2 U	0.99 U	2 U	2 U	1000 U	40 U	4.1 U	2 U
Aroclor-1242 (PCB-1242)	mg/kg		2 U	0.99 U	2 U	2 U	1000 U	40 U	4.1 U	2 U
Aroclor-1248 (PCB-1248)	mg/kg		2 U	0.99 U	2 U	2 U	1000 U	40 U	4.1 U	2 U
Aroclor-1254 (PCB-1254)	mg/kg		2 U	0.99 U	2 U	2 U	1000 U	40 U	4.1 U	2 U
Aroclor-1260 (PCB-1260)	mg/kg		5.2	4	6.5	6.5	3200	100	16	13
Total PCBs	mg/kg	1	5.2 ^b	4 ^b	6.5 ^b	6.5 ^b	3200 ^b	100 ^b	16 ^b	13 ^b

Notes:

U - Not detected at the associated reporting limit.

RCRA -Resource Conservation Recovery Act (RCRA) criteria for the toxicity characteristic (40 CFR 261.24).

TSCA (1) - Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).

TABLE 3
ANALYTICAL RESULTS SUMMARY - CONCRETE, BRICK, BLOCK, AND SOIL
WCAA - BUILDING DECOMMISSIONING ASSESSMENT
HANGAR 2

Field ID #	RCRA	TSCA (1)	EPM-020	EPM-021	EPM-022	EPM-023	EPM-024
Sample Identification			CC-081129-011714-EPM-020	CC-081129-011714-EPM-021	CC-081129-21414-EPM-022	CC-081129-21414-EPM-023	SO-081129-21414-EPM-024
Sample Date			1/17/2014	1/17/2014	2/14/2014	2/14/2014	2/14/2014
Area/Building			Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2
Sub-Area Descr			Main Floor Area - Switchgear Room	Main Floor Area - Switchgear Room	West Exterior - Switchgear Room	West Exterior - Switchgear Room	East Exterior - Switchgear Room
Area/Item Description			Wall	Wall	Exterior Concrete	Exterior Concrete	Exterior Soil
Comments	a	b	Delineation of walls to confirm impacts are limited to substation area west wall	Delineation of walls to confirm impacts are limited to substation area south wall	Delineation 10 feet east from west double doors to switchgear room exterior concrete slab	Delineation 20 feet east from west double doors to switchgear room exterior concrete slab	Delineation at west door of switchgear room exterior ground at west switchgear door
Notes	Units						
TCLP-Metals							
Arsenic	mg/L	5	-	-	-	-	-
Barium	mg/L	100	-	-	-	-	-
Cadmium	mg/L	1	-	-	-	-	-
Chromium	mg/L	5	-	-	-	-	-
Lead	mg/L	5	-	-	-	-	-
Mercury	mg/L	0.2	-	-	-	-	-
Selenium	mg/L	1	-	-	-	-	-
Silver	mg/L	5	-	-	-	-	-
PCBs							
Aroclor-1016 (PCB-1016)	mg/kg		10 U	990 U	41 U	1 U	1.8 U
Aroclor-1221 (PCB-1221)	mg/kg		10 U	990 U	41 U	1 U	1.8 U
Aroclor-1232 (PCB-1232)	mg/kg		10 U	990 U	41 U	1 U	1.8 U
Aroclor-1242 (PCB-1242)	mg/kg		10 U	990 U	41 U	1 U	1.8 U
Aroclor-1248 (PCB-1248)	mg/kg		10 U	990 U	41 U	1 U	1.8 U
Aroclor-1254 (PCB-1254)	mg/kg		10 U	990 U	41 U	1 U	1.8 U
Aroclor-1260 (PCB-1260)	mg/kg		32	3000	120	2.9	4.1
Total PCBs	mg/kg	1	32 ^b	3000 ^b	120 ^b	2.9 ^b	4.1 ^b

Notes:

U - Not detected at the associated reporting limit.

RCRA -Resource Conservation Recovery Act (RCRA) criteria for the toxicity characteristic (40 CFR 261.24).

TSCA (1) - Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).

TABLE 4
ANALYTICAL RESULTS SUMMARY - PAINT
WCAA - BUILDING DECOMMISSIONING ASSESSMENT
HANGAR 2

Field ID #		12	13	14	16	17	50	51	
Sample Identification	TSCA (2)	S-081129-120313-SM-012	S-081129-120313-SM-013	S-081129-120313-SM-014	S-081129-120313-SM-016	S-081129-120313-SM-017	S-081129-120313-SM-050	S-081129-120313-SM-051	
Sample Date		12/3/2013	12/3/2013	12/3/2013	12/3/2013	12/3/2013	12/3/2013	12/3/2013	
Area/Building		Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	
Sub-Area Descr		Main Floor Area	Main Floor Area	Main Floor Area	Main Floor Area - Offices	Main Floor Area - Offices	Main Floor Area - Boiler/Fan Rooms	Main Floor Area - Boiler/Fan Rooms	
Area/Item Description		Paint	Paint	Paint	Paint	Paint	Paint	Paint	
Comments		composite if other misc colors/vintages observed	composite if other misc colors/vintages observed	composite if other misc colors/vintages observed	composite of white/grey paint for each half of Hanger #2	composite of white/grey paint for each half of Hanger #2	composite of black paint on fan room equipment for each half of Hanger #2	composite of black paint on fan room equipment for each half of Hanger #2	
Notes		white/brown paint on east side of fire door and tan/brown paint on west side of fire door at Fan Room No. 4	light blue over white paint on 'Room 55' at Column A29	tan paint on brick walls in Fan Room No. 2	white/black/grey paint from electrical panels plus white/tan paint on drainage pipe - North Half Hangar	grey/white paint on plywood across from third hangar door from south end - South Half Hangar	Fan Rooms No. 3 and 4	Fan Rooms No. 1 and 2	
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1 U	4.4 U	2.4 U	0.96 U	2.4 U	0.93 U	2.4 U	
Aroclor-1221 (PCB-1221)	mg/kg	1 U	4.4 U	2.4 U	0.96 U	2.4 U	0.93 U	2.4 U	
Aroclor-1232 (PCB-1232)	mg/kg	1 U	4.4 U	2.4 U	0.96 U	2.4 U	0.93 U	2.4 U	
Aroclor-1242 (PCB-1242)	mg/kg	1 U	4.4 U	2.4 U	0.96 U	2.4 U	0.93 U	2.4 U	
Aroclor-1248 (PCB-1248)	mg/kg	1 U	4.4 U	2.4 U	0.96 U	2.4 U	0.93 U	2.4 U	
Aroclor-1254 (PCB-1254)	mg/kg	3.7	8.5	3	2.9	2.7	0.93 U	2.4 U	
Aroclor-1260 (PCB-1260)	mg/kg	1 U	4.4 U	2.4 U	0.96 U	2.4 U	0.93 U	5.1	
Total PCBs	mg/kg	50	3.7	8.5	3	2.9	2.7	ND	5.1

Notes:

U - Not detected at the associated reporting limit.

TSCA (2) - definition of PCB bulk product waste (40 CFR 761.3), and regulatory limit for disposal of a PCB liquid (40 CFR 761.60(a)).

TABLE 5

ANALYTICAL RESULTS SUMMARY - BUILDING STRUCTURE MATERIAL
WCAA - BUILDING DECOMMISSIONING ASSESSMENT
HANGAR 2

Field ID #				6	7	20	21	52	53
Sample Identification	RCRA	TSCA (2)	TSCA (1)	S-081129-120313-SM-006	S-081129-120313-SM-007	S-081129-120313-SM-020	S-081129-120313-SM-021	S-081129-120313-SM-052	S-081129-120313-SM-053
Sample Date	a	b	c	12/3/2013	12/3/2013	12/3/2013	12/3/2013	12/3/2013	12/3/2013
Area/Building				Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2
Sub-Area Descr				Main Floor Area	Main Floor Area	Main Floor Area - Substation	Main Floor Area - Substation	Main Floor Area - Boiler/Fan Rooms	Main Floor Area - Boiler/Fan Rooms
Area/Item Description				Expansion Joint Material	Expansion Joint Material	Electrical Equipment - Transformers	Electrical Equipment - Transformers	Fire Brick/Boiler Debris	Fire Brick/Boiler Debris
				collect debris inside one of the boilers	collect debris inside one of the boilers	collect debris inside one of the boilers	collect debris inside one of the boilers	collect debris inside one of the boilers	collect debris inside one of the boilers
Comments				expansion joints in building slab and exterior brick wall	expansion joints in building slab and exterior brick wall	XYZ transformer leaking on floor in corner	XYZ transformer cable wrap on floor in corner	located in each of four (4) boiler/fan room locations	located in each of four (4) boiler/fan room locations
Notes				floor expansion joint at center of building slab from north to south	vertical expansion joint in exterior brick wall on west side	substation at Columns A26/27	substation at Columns A26/27	Fire Brick at Boiler Room No. 1	Fire Brick at Boiler Room No. 2
	Units								
TCCLP-Metals									
Arsenic	mg/L	5		-	-	-	-	0.50 U	0.50 U
Barium	mg/L	100		-	-	-	-	10 U	10 U
Cadmium	mg/L	1		-	-	-	-	0.10 U	0.10 U
Chromium	mg/L	5		-	-	-	-	0.50 U	0.50 U
Lead	mg/L	5		-	-	-	-	0.50 U	0.50 U
Mercury	mg/L	0.2		-	-	-	-	0.0020 U	0.0020 U
Selenium	mg/L	1		-	-	-	-	0.25 U	0.25 U
Silver	mg/L	5		-	-	-	-	0.50 U	0.50 U
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg			4.2 U	0.43 U	4900 U	44 U	0.2 U	0.2 U
Aroclor-1221 (PCB-1221)	mg/kg			4.2 U	0.43 U	4900 U	44 U	0.2 U	0.2 U
Aroclor-1232 (PCB-1232)	mg/kg			4.2 U	0.43 U	4900 U	44 U	0.2 U	0.2 U
Aroclor-1242 (PCB-1242)	mg/kg			4.2 U	0.43 U	4900 U	44 U	0.2 U	0.2 U
Aroclor-1248 (PCB-1248)	mg/kg			4.2 U	0.43 U	4900 U	44 U	0.2 U	0.2 U
Aroclor-1254 (PCB-1254)	mg/kg			4.2 U	0.43 U	4900 U	44 U	0.2 U	0.2 U
Aroclor-1260 (PCB-1260)	mg/kg			43	1.2	180000	330	0.2 U	0.2 U
Total PCBs	mg/kg	50	1	43	1.2	180000 ^c	330 ^c	ND	ND

Notes:

U - Not detected at the associated reporting limit.

RCRA -Resource Conservation Recovery Act (RCRA) criteria for the toxicity characteristic (40 CFR 261.24).

TSCA (2)- Toxic Substances Control Act (TSCA) regulatory limit for disposal of a PCB liquid (40 CFR 761.60 (a)).

TSCA (1) - Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).

TABLE 5

ANALYTICAL RESULTS SUMMARY - BUILDING STRUCTURE MATERIAL
WCAA - BUILDING DECOMMISSIONING ASSESSMENT
HANGAR 2

Field ID #				54	55	56	57	58	EPM-025	EPM-026
Sample Identification	RCRA	TSCA (2)	TSCA (1)	S-081129-120313-SM-054	S-081129-120313-SM-055	O-081129-120313-SM-056	O-081129-120313-SM-057	S-081129-120313-SM-058	S-081129-21414-EPM-025	S-081129-21414-EPM-026
Sample Date	a	b	c	12/3/2013	12/3/2013	12/3/2013	12/3/2013	12/3/2013	2/14/2014	2/14/2014
Area/Building				Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2
Sub-Area Descr				Main Floor Area - Boiler/Fan Rooms	Main Floor Area - Boiler/Fan Rooms	Main Floor Area - Boiler/Fan Rooms	Main Floor Area - Boiler/Fan Rooms	Main Floor Area - First Floor Office	Main Floor Area	Main Floor Area
Area/Item Description				Fire Brick/Boiler Debris	Fire Brick/Boiler Debris	Door Hinge	Door Hinge	Window Caulk	Expansion Joint Material	Expansion Joint Material
				collect debris inside one of the boilers	collect debris inside one of the boilers	collect oil samples from vintange style	collect oil samples from vintange style		expansion joints in building	expansion joints in building
				located in each of four (4) boiler/fan	located in each of four (4) boiler/fan	hinge oil reservoirs on various	hinge oil reservoirs on various		slab	slab
Comments				room locations	room locations	doorways	doorways			
									central lengthwise floor	central lengthwise floor
						Door Between Boiler Room/Fan	Door Between Boiler Room/Fan	white modern caulk on central west	expansion joint between	expansion joint at column
Notes				Fire Brick at Boiler Room No. 3	Fire Brick at Boiler Room No. 4	Room No. 1	Room No. 2	windows	column lines 38 and 39	line 35
TCCLP-Metals										
Arsenic	mg/L	5		0.50 U	0.50 U	-	-	-	-	-
Barium	mg/L	100		10 U	10 U	-	-	-	-	-
Cadmium	mg/L	1		0.10 U	0.10 U	-	-	-	-	-
Chromium	mg/L	5		0.50 U	0.50 U	-	-	-	-	-
Lead	mg/L	5		0.50 U	0.50 U	-	-	-	-	-
Mercury	mg/L	0.2		0.0020 U	0.0020 U	-	-	-	-	-
Selenium	mg/L	1		0.25 U	0.25 U	-	-	-	-	-
Silver	mg/L	5		0.50 U	0.50 U	-	-	-	-	-
PCBs										
Aroclor-1016 (PCB-1016)	mg/kg			0.2 U	0.19 U	0.95 U	0.97 U	0.63 U	0.49 U	5 U
Aroclor-1221 (PCB-1221)	mg/kg			0.2 U	0.19 U	0.95 U	0.97 U	0.63 U	0.49 U	5 U
Aroclor-1232 (PCB-1232)	mg/kg			0.2 U	0.19 U	0.95 U	0.97 U	0.63 U	0.49 U	5 U
Aroclor-1242 (PCB-1242)	mg/kg			0.2 U	0.19 U	0.95 U	0.97 U	0.63 U	0.49 U	5 U
Aroclor-1248 (PCB-1248)	mg/kg			0.2 U	0.19 U	0.95 U	0.97 U	0.63 U	0.49 U	5 U
Aroclor-1254 (PCB-1254)	mg/kg			0.2 U	0.19 U	0.95 U	0.97 U	0.63 U	0.49 U	10
Aroclor-1260 (PCB-1260)	mg/kg			0.2 U	0.19 U	0.95 U	0.97 U	0.63 U	0.49 U	5 U
Total PCBs	mg/kg	50	1	ND	ND	ND	ND	ND	ND	10

Notes:

U - Not detected at the associated reporting limit.

RCRA -Resource Conservation Recovery Act (RCRA) criteria for the toxicity characteristic (40 CFR 261.24).

TSCA (2)- Toxic Substances Control Act (TSCA) regulatory limit for disposal of a PCB liquid (40 CFR 761.60 (a)).

TSCA (1) - Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).

ANALYTICAL RESULTS SUMMARY - BUILDING STRUCTURE MATERIAL												
WCAA - BUILDING DECOMMISSIONING ASSESSMENT												
HANGAR 2												
Field ID #				EPM-027	EPM-028	EPM-029	EPM-030	EPM-031	EPM-032	EPM-033	EPM-034	EPM-035
Sample Identification	RCRA	TSCA (2)	TSCA (1)	S-081129-21414-EPM-027	S-081129-21414-EPM-028	S-081129-21414-EPM-029	S-081129-21414-EPM-030	S-081129-21414-EPM-031	S-081129-21414-EPM-032	S-081129-21414-EPM-033	S-081129-21414-EPM-034	S-081129-21414-EPM-035
Sample Date	a	b	c	2/14/2014	2/14/2014	2/14/2014	2/14/2014	2/14/2014	2/14/2014	2/14/2014	2/14/2014	2/14/2014
Area/Building				Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2
Sub-Area Descr				Main Floor Area	Main Floor Area	Main Floor Area	Main Floor Area	Main Floor Area	Main Floor Area	Main Floor Area	Main Floor Area	Main Floor Area
Area/Item Description				Expansion Joint Material expansion joints in building slab	Expansion Joint Material expansion joints in building slab	Expansion Joint Material expansion joints in building slab	Expansion Joint Material expansion joints in building slab	Expansion Joint Material expansion joints in building slab	Expansion Joint Material expansion joints in building slab	Expansion Joint Material expansion joints in building slab	Expansion Joint Material expansion joints in building slab	Expansion Joint Material expansion joints in building slab
Comments				hangar door floor expansion joint between columns 29 to 36	hangar door floor expansion joint between columns 29 to 36	central lengthwise floor expansion joint at column line 31	central lengthwise floor expansion joint at column line 29	floor expansion joint at north extent of column line 29	hangar door floor expansion joint between columns 22 to 29	hangar door floor expansion joint between columns 22 to 29	central lengthwise floor expansion joint at column line 22	central lengthwise floor expansion joint at column line 23
Notes	Units											
TCCLP-Metals												
Arsenic	mg/L	5		-	-	-	-	-	-	-	-	-
Barium	mg/L	100		-	-	-	-	-	-	-	-	-
Cadmium	mg/L	1		-	-	-	-	-	-	-	-	-
Chromium	mg/L	5		-	-	-	-	-	-	-	-	-
Lead	mg/L	5		-	-	-	-	-	-	-	-	-
Mercury	mg/L	0.2		-	-	-	-	-	-	-	-	-
Selenium	mg/L	1		-	-	-	-	-	-	-	-	-
Silver	mg/L	5		-	-	-	-	-	-	-	-	-
PCBs												
Aroclor-1016 (PCB-1016)	mg/kg			0.49 U	0.48 U	0.93 U	2.4 U	2.4 U	0.49 U	2.3 U	0.48 U	0.97 U
Aroclor-1221 (PCB-1221)	mg/kg			0.49 U	0.48 U	0.93 U	2.4 U	2.4 U	0.49 U	2.3 U	0.48 U	0.97 U
Aroclor-1232 (PCB-1232)	mg/kg			0.49 U	0.48 U	0.93 U	2.4 U	2.4 U	0.49 U	2.3 U	0.48 U	0.97 U
Aroclor-1242 (PCB-1242)	mg/kg			0.49 U	0.48 U	0.93 U	2.4 U	2.4 U	0.49 U	2.3 U	0.48 U	0.97 U
Aroclor-1248 (PCB-1248)	mg/kg			1.3	0.48 U	0.93 U	2.4 U	2.4 U	0.49 U	2.3 U	0.48 U	0.97 U
Aroclor-1254 (PCB-1254)	mg/kg			0.49 U	4.2	0.93 U	2.4 U	2.4 U	0.49 U	2.3 U	0.48 U	0.97 U
Aroclor-1260 (PCB-1260)	mg/kg			1.5	0.48 U	6.6	4.2	5.1	2.4	9.1	6.3	10
Total PCBs	mg/kg		50 1	2.8	4.2	6.6	4.2	5.1	2.4	9.1	6.3	10

Notes:

U - Not detected at the associated reporting limit.

RCRA -Resource Conservation Recovery Act (RCRA) criteria for the toxicity characteristic (40 CFR 261.24).

TSCA (2)- Toxic Substances Control Act (TSCA) regulatory limit for disposal of a PCB liquid (40 CFR 761.60 (a)).

TSCA (1) - Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).

TABLE 5

ANALYTICAL RESULTS SUMMARY - BUILDING STRUCTURE MATERIAL
WCAA - BUILDING DECOMMISSIONING ASSESSMENT
HANGAR 2

Field ID #				EPM-036	EPM-037	EPM-038	EPM-039	EPM-040	EPM-041	EPM-042	EPM-043
Sample Identification	RCRA	TSCA (2)	TSCA (1)	S-081129-21414-EPM-036	S-081129-21414-EPM-037	S-081129-21414-EPM-038	S-081129-21414-EPM-039	S-081129-21414-EPM-040	S-081129-21414-EPM-041	S-081129-21414-EPM-042	S-081129-21414-EPM-043
Sample Date	a	b	c	2/14/2014	2/14/2014	2/14/2014	2/14/2014	2/14/2014	2/14/2014	2/14/2014	2/14/2014
Area/Building				Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2
Sub-Area Descr				Main Floor Area	Main Floor Area	Main Floor Area	Main Floor Area	Main Floor Area	Main Floor Area	Main Floor Area	Main Floor Area
Area/Item Description				Expansion Joint Material expansion joints in building slab	Expansion Joint Material expansion joints in building slab	Expansion Joint Material expansion joints in building slab	Expansion Joint Material expansion joints in building slab	Expansion Joint Material expansion joints in building slab	Expansion Joint Material expansion joints in building slab	Expansion Joint Material expansion joints in building exterior	Expansion Joint Material expansion joints in building exterior
Comments				hangar door floor expansion joint between columns 8 to 15	hangar door floor expansion joint between columns 8 to 15	central lengthwise floor expansion joint at column line 7	floor expansion joint at south extent of column line 7	floor expansion joint at south extent of column line 4	floor expansion joint at north extent of column line 4	vertical expansion joint in exterior brick wall at southeast corner of Fan Room 2	vertical expansion joint in exterior brick wall at northwest corner of Fan Room 3
Notes	Units										
TCLP-Metals											
Arsenic	mg/L	5		-	-	-	-	-	-	-	-
Barium	mg/L	100		-	-	-	-	-	-	-	-
Cadmium	mg/L	1		-	-	-	-	-	-	-	-
Chromium	mg/L	5		-	-	-	-	-	-	-	-
Lead	mg/L	5		-	-	-	-	-	-	-	-
Mercury	mg/L	0.2		-	-	-	-	-	-	-	-
Selenium	mg/L	1		-	-	-	-	-	-	-	-
Silver	mg/L	5		-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	mg/kg			0.5 U	4.6 U	0.5 U	0.48 U	2.4 U	0.49 U	0.48 U	0.94 U
Aroclor-1221 (PCB-1221)	mg/kg			0.5 U	4.6 U	0.5 U	0.48 U	2.4 U	0.49 U	0.48 U	0.94 U
Aroclor-1232 (PCB-1232)	mg/kg			0.5 U	4.6 U	0.5 U	0.48 U	2.4 U	0.49 U	0.48 U	0.94 U
Aroclor-1242 (PCB-1242)	mg/kg			0.5 U	4.6 U	0.5 U	0.48 U	2.4 U	0.49 U	0.48 U	0.94 U
Aroclor-1248 (PCB-1248)	mg/kg			0.5 U	4.6 U	0.5 U	0.48 U	2.4 U	0.49 U	0.48 U	0.94 U
Aroclor-1254 (PCB-1254)	mg/kg			0.5 U	22	0.5 U	0.48 U	14	0.49 U	0.48 U	0.94 U
Aroclor-1260 (PCB-1260)	mg/kg			2	4.6 U	2.3	0.57	2.4 U	2.4	0.48 U	4.1
Total PCBs	mg/kg	50	1	2	22	2.3	0.57	14	2.4	ND	4.1

Notes:

U - Not detected at the associated reporting limit.

RCRA -Resource Conservation Recovery Act (RCRA) criteria for the toxicity characteristic (40 CFR 261.24).

TSCA (2)- Toxic Substances Control Act (TSCA) regulatory limit for disposal of a PCB liquid (40 CFR 761.60 (a)).

TSCA (1) - Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).

TABLE 6
ANALYTICAL RESULTS SUMMARY - WIPE SAMPLES
WCAA - BUILDING DECOMMISSIONING ASSESSMENT
HANGAR 2

Field ID #		22	23	26	27	28	34
Sample Identification	TSCA (3)	W-081129-111913-SM-022	W-081129-111913-SM-023	W-081129-120313-SM-026	W-081129-111913-SM-027	W-081129-111913-SM-028	W-081129-120313-SM-034
Sample Date		11/19/2013	11/19/2013	12/3/2013	11/19/2013	11/19/2013	12/3/2013
Area/Building		Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2	Hanger #2
Sub-Area Descr		Main Floor Area - Substation	Main Floor Area - Substation	Main Floor Area - Air Compressor Room	Main Floor Area - Switchgear Room	Main Floor Area - Switchgear Room	Main Floor Area - Boiler/Fan Rooms
Area/Item Description		Electrical Equipment - Transformers	Electrical Equipment - Transformers	Air Compressor Equipment	Electrical Equipment - Switchgear	Electrical Equipment - Switchgear	Fan Room Equipment wipe of oil releases from motors or fan axel located in each of four (4) boiler/fan room locations
Comments		current and former transformer equipment bottom of black electrical panels on west side	current and former transformer equipment bottom of black electrical panels on east side	bias towards staining west air compressor near Column A46 outside Fan Room No. 1	bias towards staining red electrical junction box in southeast corner	bias towards staining copper grounding bar on east wall	
Notes							Fan Room No. 1 axel at Column A46
PCBs	Units						
Aroclor-1016 (PCB-1016)	ug/wipe	20 U	2.0 U	2.0 U	10 U	20 U	2.0 U
Aroclor-1221 (PCB-1221)	ug/wipe	20 U	2.0 U	2.0 U	10 U	20 U	2.0 U
Aroclor-1232 (PCB-1232)	ug/wipe	20 U	2.0 U	2.0 U	10 U	20 U	2.0 U
Aroclor-1242 (PCB-1242)	ug/wipe	20 U	2.0 U	2.0 U	10 U	20 U	2.0 U
Aroclor-1248 (PCB-1248)	ug/wipe	20 U	2.0 U	2.0 U	10 U	20 U	2.0 U
Aroclor-1254 (PCB-1254)	ug/wipe	20 U	2.0 U	2.0 U	10 U	20 U	2.0 U
Aroclor-1260 (PCB-1260)	ug/wipe	20 U	7.3	2.0 U	37	130	2.0 U
Aroclor-1262 (PCB-1262)	ug/wipe	20 U	2.0 U	-	10 U	20 U	-
Aroclor-1268 (PCB-1268)	ug/wipe	190	2.0 U	-	10 U	20 U	-
Total PCBs	ug/wipe	10		ND			ND

Notes:

U - Not detected at the associated reporting limit.

TSCA (3) - Toxic Substances Control Act (TSCA) criteria
for non-porous surfaces in high occupancy areas (40
CFR 761.61 (a)(4)(ii)).

TABLE 6					
ANALYTICAL RESULTS SUMMARY - WIPE SAMPLES					
WCAA - BUILDING DECOMMISSIONING ASSESSMENT					
HANGAR 2					
Field ID #		36	37	38	39
Sample Identification	TSCA (3)	W-081129-120313-SM-036	W-081129-120313-SM-037	W-081129-120313-SM-038	W-081129-120313-SM-039
Sample Date		12/3/2013	12/3/2013	12/3/2013	12/3/2013
Area/Building		Hanger #2	Hanger #2	Hanger #2	Hanger #2
Sub-Area Descr		Main Floor Area - Boiler/Fan Rooms	Main Floor Area - Boiler/Fan Rooms	Main Floor Area - Boiler/Fan Rooms	Main Floor Area - Boiler/Fan Rooms
Area/Item Description		Fan Room Equipment wipe of oil releases from motors or fan axel located in each of four (4)	Fan Room Equipment wipe of oil releases from motors or fan axel located in each of four (4)	Fan Room Equipment wipe of oil releases from motors or fan axel located in each of four (4)	Fan Room Equipment wipe of oil releases from motors or fan axel located in each of four (4)
Comments		boiler/fan room locations	boiler/fan room locations	boiler/fan room locations	boiler/fan room locations
Notes		Fan Room No. 2 axel at Column A36/37	Fan Room No. 2 shroud at Column A36/37	Fan Room No. 3 axel at Column A21/22	Fan Room No. 3 shroud at Column A21/22
	Units				
PCBs					
Aroclor-1016 (PCB-1016)	ug/wipe	2.0 U	10 U	2.0 U	10 U
Aroclor-1221 (PCB-1221)	ug/wipe	2.0 U	10 U	2.0 U	10 U
Aroclor-1232 (PCB-1232)	ug/wipe	2.0 U	10 U	2.0 U	10 U
Aroclor-1242 (PCB-1242)	ug/wipe	2.0 U	10 U	2.0 U	10 U
Aroclor-1248 (PCB-1248)	ug/wipe	2.0 U	10 U	2.0 U	10 U
Aroclor-1254 (PCB-1254)	ug/wipe	2.0 U	10 U	2.0 U	10 U
Aroclor-1260 (PCB-1260)	ug/wipe	2.0 U	10 U	2.0 U	10 U
Aroclor-1262 (PCB-1262)	ug/wipe	-	-	-	-
Aroclor-1268 (PCB-1268)	ug/wipe	-	-	-	-
Total PCBs	ug/wipe	10	ND	ND	ND

Notes:

U - Not detected at the associated reporting limit.

TSCA (3) - Toxic Substances Control Act (TSCA) criteria for non-porous surfaces in high occupancy areas (40 CFR 761.61 (a)(4)(ii)).

TABLE 6
ANALYTICAL RESULTS SUMMARY - WIPE SAMPLES
WCAA - BUILDING DECOMMISSIONING ASSESSMENT
HANGAR 2

Field ID #			40	41
Sample Identification		TSCA (3)	W-081129-120313-SM-040	W-081129-120313-SM-041
Sample Date			12/3/2013	12/3/2013
Area/Building			Hanger #2	Hanger #2
Sub-Area Descr			Main Floor Area - Boiler/Fan Rooms	Main Floor Area - Boiler/Fan Rooms
Area/Item Description			Fan Room Equipment	Fan Room Equipment
Comments			wipe of oil releases from motors or fan axel located in each of four (4) boiler/fan room locations	wipe of oil releases from motors or fan axel located in each of four (4) boiler/fan room locations
Notes			Fan Room No. 4 axel at Column A7/8	Fan Room No. 4 shroud at Column A7/8
PCBs	Units			
Aroclor-1016 (PCB-1016)	ug/wipe		2.0 U	2.0 U
Aroclor-1221 (PCB-1221)	ug/wipe		2.0 U	2.0 U
Aroclor-1232 (PCB-1232)	ug/wipe		2.0 U	2.0 U
Aroclor-1242 (PCB-1242)	ug/wipe		2.0 U	2.0 U
Aroclor-1248 (PCB-1248)	ug/wipe		2.0 U	2.0 U
Aroclor-1254 (PCB-1254)	ug/wipe		2.0 U	2.0 U
Aroclor-1260 (PCB-1260)	ug/wipe		2.0 U	2.0 U
Aroclor-1262 (PCB-1262)	ug/wipe		-	-
Aroclor-1268 (PCB-1268)	ug/wipe		-	-
Total PCBs	ug/wipe	10	ND	ND

Notes:

U - Not detected at the associated reporting limit.

TSCA (3) - Toxic Substances Control Act (TSCA) criteria for non-porous surfaces in high occupancy areas (40 CFR 761.61 (a)(4)(ii)).

TABLE 7
ANALYTICAL RESULTS SUMMARY - SAMPLE EXCEEDANCE SUMMARY
WCAA - BUILDING DECOMMISSIONING ASSESSMENT
HANGAR 2

SAMPLE ID	EXCEEDANCE ANALYTES	RESULT (mg/kg)	SCREENING CRITERIA (mg/kg)	CRITERIA REFERENCE	AREA/BUILDING	SUB-AREA DESCR.	AREA/ITEM DESCRIPTION	MATRIX	COMMENTS	SAMPLE LOCATION NOTES
CC-081129-111913-SM-018	PCBs	2.4	1 - TSCA	TSCA ⁽¹⁾	Hangar #2	Main Floor Area - Substation	Flooring	Core	former substation location	at entrance to existing substation
CC-081129-111913-SM-019	PCBs	9.4	1 - TSCA	TSCA ⁽¹⁾	Hangar #2	Main Floor Area - Substation	Flooring	Core	former substation location	in former secondary containment in southwest corner of existing substation
S-081129-120313-SM-020	PCBs	180000	50 - TSCA	TSCA ⁽³⁾	Hangar #2	Main Floor Area - Substation	Electrical Equipment - Transformers	Solid	XYZ transformer leaking on floor in corner	substation at Columns A26/27
S-081129-120313-SM-021	PCBs	330	50 - TSCA	TSCA ⁽³⁾	Hangar #2	Main Floor Area - Substation	Electrical Equipment - Transformers	Solid	XYZ transformer cable wrap on floor in corner	substation at Columns A26/27
CC-081129-111913-SM-024	PCBs	4300	1 - TSCA	TSCA ⁽¹⁾	Hangar #2	Main Floor Area - Switchgear Room	Flooring	Core	bias towards staining	west side of switchgear room (modern switchgear)
CC-081129-111913-SM-025	PCBs	26	1 - TSCA	TSCA ⁽¹⁾	Hangar #2	Main Floor Area - Switchgear Room	Flooring	Core	bias towards staining	east side of switchgear room (modern switchgear)
CC-081129-011714-EPM-011	PCBs	1.7	1 - TSCA	TSCA ⁽¹⁾	Hangar #2	Main Floor Area - Substation	Flooring	Core	Delineation of flooring around entrances to substation to confirm extent of impacts	5' to interior of single man door, southeast corner
CC-081129-011714-EPM-012	PCBs	5.2	1 - TSCA	TSCA ⁽¹⁾	Hangar #2	Main Floor Area - Substation	Wall	Core	Delineation of walls to confirm impacts are limited to substation area	east wall, between double and single man doors
CC-081129-011714-EPM-013	PCBs	4.0	1 - TSCA	TSCA ⁽¹⁾	Hangar #2	Main Floor Area - Substation	Wall	Core	Delineation of walls to confirm impacts are limited to substation area	north wall
CC-081129-011714-EPM-014	PCBs	6.5	1 - TSCA	TSCA ⁽¹⁾	Hangar #2	Main Floor Area - Substation	Wall	Core	Delineation of walls to confirm impacts are limited to substation area	west wall
CC-081129-011714-EPM-015	PCBs	6.5	1 - TSCA	TSCA ⁽¹⁾	Hangar #2	Main Floor Area - Substation	Wall	Core	Delineation of walls to confirm impacts are limited to substation area	south wall
CC-081129-011714-EPM-016	PCBs	3,200	1 - TSCA	TSCA ⁽¹⁾	Hangar #2	Main Floor Area - Switchgear Room	Flooring	Core	Delineation of flooring around entrances to substation to confirm extent of impacts	interior, at double doors at south end
CC-081129-011714-EPM-017	PCBs	100	1 - TSCA	TSCA ⁽¹⁾	Hangar #2	Main Floor Area - Switchgear Room	Wall	Core	Delineation of walls to confirm impacts are limited to substation area	wall near double doors, southeast corner
CC-081129-011714-EPM-018	PCBs	16	1 - TSCA	TSCA ⁽¹⁾	Hangar #2	Main Floor Area - Switchgear Room	Flooring	Core	Delineation of flooring around entrances to substation to confirm extent of impacts	floor inside single door entry, north end
CC-081129-011714-EPM-019	PCBs	13	1 - TSCA	TSCA ⁽¹⁾	Hangar #2	Main Floor Area - Switchgear Room	Wall	Core	Delineation of walls to confirm impacts are limited to substation area	north wall, to the right of single man door
CC-081129-011714-EPM-020	PCBs	32	1 - TSCA	TSCA ⁽¹⁾	Hangar #2	Main Floor Area - Switchgear Room	Wall	Core	Delineation of walls to confirm impacts are limited to substation area	west wall
CC-081129-011714-EPM-021	PCBs	3,000	1 - TSCA	TSCA ⁽¹⁾	Hangar #2	Main Floor Area - Switchgear Room	Wall	Core	Delineation of walls to confirm impacts are limited to substation area	south wall
CC-081129-21414-EPM-022	PCBs	120	1 - TSCA	TSCA ⁽¹⁾	Hangar #2	West Exterior - Switchgear Room	Exterior Concrete	Core	Delineation 10 feet east from west double doors to switchgear room	exterior concrete slab
CC-081129-21414-EPM-023	PCBs	2.9	1 - TSCA	TSCA ⁽¹⁾	Hangar #2	West Exterior - Switchgear Room	Exterior Concrete	Core	Delineation 20 feet east from west double doors to switchgear room	exterior concrete slab
CC-081129-21414-EPM-024	PCBs	4.1	1 - TSCA	TSCA ⁽¹⁾	Hangar #2	East Exterior - Switchgear Room	Exterior Soil	Soil	Delineation at west door of switchgear room	ground at west switchgear door
SAMPLE ID	EXCEEDANCE ANALYTES	RESULT (ug/wipe)	SCREENING CRITERIA (ug/100cm ²)	CRITERIA REFERENCE	AREA/BUILDING	SUB-AREA DESCR.	AREA/ITEM DESCRIPTION	MATRIX	COMMENTS	SAMPLE LOCATION NOTES
W-081129-111913-SM-022	PCBs	190	10 - TSCA	TSCA ⁽²⁾	Hangar #2	Main Floor Area - Substation	Electrical Equipment - Transformers	Wipe	current and former transformer equipment	bottom of black electrical panels on west side
W-081129-111913-SM-027	PCBs	37	10 - TSCA	TSCA ⁽²⁾	Hangar #2	Main Floor Area - Switchgear Room	Electrical Equipment - Switchgear	Wipe	bias towards staining	red electrical junction box in southeast corner
W-081129-111913-SM-028	PCBs	130	10 - TSCA	TSCA ⁽²⁾	Hangar #2	Main Floor Area - Switchgear Room	Electrical Equipment - Switchgear	Wipe	bias towards staining	copper grounding bar on east wall
W-081129-011714-EPM-001	PCBs	20	10 - TSCA	TSCA ⁽²⁾	Hangar #2	Main Floor Area - Switchgear Room	Electrical Equipment	Wipe	current and former transformer equipment	bus duct tray, east wall
W-081129-011714-EPM-002	PCBs	26	10 - TSCA	TSCA ⁽²⁾	Hangar #2	Main Floor Area - Switchgear Room	Electrical Equipment	Wipe	current and former transformer equipment	dry type transformer, east wall

Notes:
TSCA (1) - Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).
TSCA (2) - Toxic Substances Control Act (TSCA) criteria for non-porous surfaces in high occupancy areas (40 CFR 761.61 (a)(4)(ii)).
TSCA (3) - Toxic Substances Control Act (TSCA) regulatory limit for disposal of a PCB liquid (40 CFR 761.60 (a)).

TABLE 8

SUMMARY OF MERCURY VAPOR CONCENTRATIONS
WCAA - BUILDING DECOMMISSIONING ASSESSMENT
HANGAR 2

<i>Date</i>	<i>Floor</i>	<i>Room Number/Area</i>	<i>Floor</i>	<i>Storage</i>	<i>Drawers</i>	<i>Shelves</i>	<i>Electric Panels</i>	<i>Counter Surfaces</i>	<i>Floor Drains</i>	<i>Conduit</i>	<i>Gauges</i>	<i>Other</i>	<i>Notes</i>	<i>Photo</i>
12/3/2013	1st	Radiation Lab		10-20	15-20	10-20	11-15	20-30		10-18	11-18	Control Panel: 10-15 Misc. Storage: 10-20		
12/3/2013	1st	Furnace Room #1	6-10				6-8		6-8	6-10		Furnace: 6-8		
12/3/2013	1st	Furnace Room #2	6-13				6-13			6-13		Furnace: 6-12		
12/3/2013	1st	Furnace Room #3	3-7				3-10		3-7	3-7		Furnace: 4-11		
12/3/2013	1st	Furnace Room #4	4-12				5-12			4-12		Furnace: 4-12		
12/3/2013	2nd	Offices	2-6				2-12	2-7	2-10		4-8	Janitor Closet: 2-10	Room 224 locked	
12/3/2013	1st	Main Floor	12-29											

Notes:
Range of mercury vapor concentrations detected in identified survey area or feature (ng/m³)

Appendix A

Laboratory Analytical Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-31741-1

Client Project/Site: 81129, WCAA

For:

Conestoga-Rovers & Associates, Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Rawa Fleisher



Authorized for release by:

12/9/2013 2:40:41 PM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Job ID: 240-31741-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 81129, WCAA

Report Number: 240-31741-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 11/21/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.8 C.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples CC-081129-111913-SM-001 (240-31741-1), CC-081129-111913-SM-002 (240-31741-2), CC-081129-111913-SM-003 (240-31741-3), CC-081129-111913-SM-004 (240-31741-4), CC-081129-111913-SM-018 (240-31741-5), CC-081129-111913-SM-019 (240-31741-6), CC-081129-111913-SM-024 (240-31741-7), CC-081129-111913-SM-025 (240-31741-8), CC-081129-111913-SM-030 (240-31741-9), CC-081129-111913-SM-031 (240-31741-10), CC-081129-111913-SM-032 (240-31741-11), CC-081129-111913-SM-033 (240-31741-12), CC-081129-111913-SM-042 (240-31741-13), CC-081129-111913-SM-043 (240-31741-14), CC-081129-111913-SM-044 (240-31741-15), CC-081129-111913-SM-045 (240-31741-16), CC-081129-111913-SM-046 (240-31741-17), CC-081129-111913-SM-047 (240-31741-18), CC-081129-111913-SM-048 (240-31741-19) and CC-081129-111913-SM-049 (240-31741-20) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 11/22/2013 and analyzed on 11/26/2013.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Samples CC-081129-111913-SM-018 (240-31741-5)[5X], CC-081129-111913-SM-019 (240-31741-6)[10X], CC-081129-111913-SM-024 (240-31741-7)[2000X] and CC-081129-111913-SM-025 (240-31741-8)[10X] required dilution prior to analysis. The reporting limits have

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Job ID: 240-31741-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

been adjusted accordingly.

No other difficulties were encountered during the PCBs analysis.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples W-081129-111913-SM-022 (240-31741-25), W-081129-111913-SM-023 (240-31741-26), W-081129-111913-SM-027 (240-31741-27) and W-081129-111913-SM-028 (240-31741-28) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 11/26/2013 and 11/29/2013 and analyzed on 12/03/2013 and 12/04/2013.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Aroclor-1260 failed the recovery criteria low for LCS 240-111699/7-A. There was insufficient sample to perform a re-extraction or re-analysis; therefore, the data has been reported.

Samples W-081129-111913-SM-022 (240-31741-25)[10X], W-081129-111913-SM-027 (240-31741-27)[5X] and W-081129-111913-SM-028 (240-31741-28)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following sample appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: W-081129-111913-SM-028 (240-31741-28). The sample has been quantified and reported as Aroclor 1260. Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

No other difficulties were encountered during the PCBs analysis.

All other quality control parameters were within the acceptance limits.

TCLP METALS (ICP)

Samples CC-081129-111913-SM-001 (240-31741-1), CC-081129-111913-SM-002 (240-31741-2), CC-081129-111913-SM-003 (240-31741-3), CC-081129-111913-SM-004 (240-31741-4) and CC-081129-111913-SM-033 (240-31741-12) were analyzed for TCLP metals (ICP) in accordance with EPA SW-846 Methods 1311/6010B. The samples were leached on 11/25/2013, prepared on 11/26/2013 and analyzed on 11/27/2013.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

TCLP MERCURY

Samples CC-081129-111913-SM-001 (240-31741-1), CC-081129-111913-SM-002 (240-31741-2), CC-081129-111913-SM-003 (240-31741-3), CC-081129-111913-SM-004 (240-31741-4) and CC-081129-111913-SM-033 (240-31741-12) were analyzed for TCLP mercury in accordance with EPA SW-846 Methods 1311/7470A. The samples were leached on 11/25/2013, and prepared and analyzed on 11/26/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-31741-1	CC-081129-111913-SM-001	Solid	11/19/13 09:30	11/21/13 09:10
240-31741-2	CC-081129-111913-SM-002	Solid	11/19/13 09:35	11/21/13 09:10
240-31741-3	CC-081129-111913-SM-003	Solid	11/19/13 09:40	11/21/13 09:10
240-31741-4	CC-081129-111913-SM-004	Solid	11/19/13 09:50	11/21/13 09:10
240-31741-5	CC-081129-111913-SM-018	Solid	11/19/13 14:05	11/21/13 09:10
240-31741-6	CC-081129-111913-SM-019	Solid	11/19/13 14:10	11/21/13 09:10
240-31741-7	CC-081129-111913-SM-024	Solid	11/19/13 13:45	11/21/13 09:10
240-31741-8	CC-081129-111913-SM-025	Solid	11/19/13 13:50	11/21/13 09:10
240-31741-9	CC-081129-111913-SM-030	Solid	11/19/13 10:15	11/21/13 09:10
240-31741-10	CC-081129-111913-SM-031	Solid	11/19/13 11:05	11/21/13 09:10
240-31741-11	CC-081129-111913-SM-032	Solid	11/19/13 11:10	11/21/13 09:10
240-31741-12	CC-081129-111913-SM-033	Solid	11/19/13 11:45	11/21/13 09:10
240-31741-13	CC-081129-111913-SM-042	Solid	11/19/13 10:25	11/21/13 09:10
240-31741-14	CC-081129-111913-SM-043	Solid	11/19/13 10:30	11/21/13 09:10
240-31741-15	CC-081129-111913-SM-044	Solid	11/19/13 11:25	11/21/13 09:10
240-31741-16	CC-081129-111913-SM-045	Solid	11/19/13 11:30	11/21/13 09:10
240-31741-17	CC-081129-111913-SM-046	Solid	11/19/13 14:20	11/21/13 09:10
240-31741-18	CC-081129-111913-SM-047	Solid	11/19/13 14:25	11/21/13 09:10
240-31741-19	CC-081129-111913-SM-048	Solid	11/19/13 14:45	11/21/13 09:10
240-31741-20	CC-081129-111913-SM-049	Solid	11/19/13 14:50	11/21/13 09:10
240-31741-25	W-081129-111913-SM-022	Wipe	11/19/13 15:45	11/21/13 09:10
240-31741-26	W-081129-111913-SM-023	Wipe	11/19/13 15:50	11/21/13 09:10
240-31741-27	W-081129-111913-SM-027	Wipe	11/19/13 15:30	11/21/13 09:10
240-31741-28	W-081129-111913-SM-028	Wipe	11/19/13 15:35	11/21/13 09:10

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Client Sample ID: CC-081129-111913-SM-001

Lab Sample ID: 240-31741-1

No Detections.

Client Sample ID: CC-081129-111913-SM-002

Lab Sample ID: 240-31741-2

No Detections.

Client Sample ID: CC-081129-111913-SM-003

Lab Sample ID: 240-31741-3

No Detections.

Client Sample ID: CC-081129-111913-SM-004

Lab Sample ID: 240-31741-4

No Detections.

Client Sample ID: CC-081129-111913-SM-018

Lab Sample ID: 240-31741-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	2400		1000	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: CC-081129-111913-SM-019

Lab Sample ID: 240-31741-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	9400		2000	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: CC-081129-111913-SM-024

Lab Sample ID: 240-31741-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	4300000		400000	ug/Kg	2000	☼	8082	Total/NA

Client Sample ID: CC-081129-111913-SM-025

Lab Sample ID: 240-31741-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	26000		2100	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: CC-081129-111913-SM-030

Lab Sample ID: 240-31741-9

No Detections.

Client Sample ID: CC-081129-111913-SM-031

Lab Sample ID: 240-31741-10

No Detections.

Client Sample ID: CC-081129-111913-SM-032

Lab Sample ID: 240-31741-11

No Detections.

Client Sample ID: CC-081129-111913-SM-033

Lab Sample ID: 240-31741-12

No Detections.

Client Sample ID: CC-081129-111913-SM-042

Lab Sample ID: 240-31741-13

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Client Sample ID: CC-081129-111913-SM-043

Lab Sample ID: 240-31741-14

No Detections.

Client Sample ID: CC-081129-111913-SM-044

Lab Sample ID: 240-31741-15

No Detections.

Client Sample ID: CC-081129-111913-SM-045

Lab Sample ID: 240-31741-16

No Detections.

Client Sample ID: CC-081129-111913-SM-046

Lab Sample ID: 240-31741-17

No Detections.

Client Sample ID: CC-081129-111913-SM-047

Lab Sample ID: 240-31741-18

No Detections.

Client Sample ID: CC-081129-111913-SM-048

Lab Sample ID: 240-31741-19

No Detections.

Client Sample ID: CC-081129-111913-SM-049

Lab Sample ID: 240-31741-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	250		200	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: W-081129-111913-SM-022

Lab Sample ID: 240-31741-25

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1268	190		20	ug/Wipe	10		8082	Total/NA

Client Sample ID: W-081129-111913-SM-023

Lab Sample ID: 240-31741-26

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	7.3	*	2.0	ug/Wipe	1		8082	Total/NA

Client Sample ID: W-081129-111913-SM-027

Lab Sample ID: 240-31741-27

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	37	*	10	ug/Wipe	5		8082	Total/NA

Client Sample ID: W-081129-111913-SM-028

Lab Sample ID: 240-31741-28

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	130	*	20	ug/Wipe	10		8082	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-111913-SM-001

Date Collected: 11/19/13 09:30

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-1

Matrix: Solid

Percent Solids: 97.6

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 05:51	1
Aroclor-1221	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 05:51	1
Aroclor-1232	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 05:51	1
Aroclor-1242	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 05:51	1
Aroclor-1248	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 05:51	1
Aroclor-1254	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 05:51	1
Aroclor-1260	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		29 - 151	11/22/13 11:13	11/26/13 05:51	1
DCB Decachlorobiphenyl	80		14 - 163	11/22/13 11:13	11/26/13 05:51	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-111913-SM-002

Date Collected: 11/19/13 09:35

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-2

Matrix: Solid

Percent Solids: 96.8

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:06	1
Aroclor-1221	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:06	1
Aroclor-1232	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:06	1
Aroclor-1242	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:06	1
Aroclor-1248	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:06	1
Aroclor-1254	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:06	1
Aroclor-1260	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		29 - 151	11/22/13 11:13	11/26/13 06:06	1
DCB Decachlorobiphenyl	77		14 - 163	11/22/13 11:13	11/26/13 06:06	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-111913-SM-003

Date Collected: 11/19/13 09:40

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-3

Matrix: Solid

Percent Solids: 96.6

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:21	1
Aroclor-1221	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:21	1
Aroclor-1232	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:21	1
Aroclor-1242	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:21	1
Aroclor-1248	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:21	1
Aroclor-1254	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:21	1
Aroclor-1260	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		29 - 151	11/22/13 11:13	11/26/13 06:21	1
DCB Decachlorobiphenyl	85		14 - 163	11/22/13 11:13	11/26/13 06:21	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-111913-SM-004

Date Collected: 11/19/13 09:50

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-4

Matrix: Solid

Percent Solids: 97.0

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:35	1
Aroclor-1221	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:35	1
Aroclor-1232	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:35	1
Aroclor-1242	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:35	1
Aroclor-1248	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:35	1
Aroclor-1254	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:35	1
Aroclor-1260	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 06:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		29 - 151	11/22/13 11:13	11/26/13 06:35	1
DCB Decachlorobiphenyl	86		14 - 163	11/22/13 11:13	11/26/13 06:35	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-111913-SM-018

Date Collected: 11/19/13 14:05

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-5

Matrix: Solid

Percent Solids: 98.3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	ug/Kg	☼	11/22/13 11:13	11/26/13 06:50	5
Aroclor-1221	1000	U	1000	ug/Kg	☼	11/22/13 11:13	11/26/13 06:50	5
Aroclor-1232	1000	U	1000	ug/Kg	☼	11/22/13 11:13	11/26/13 06:50	5
Aroclor-1242	1000	U	1000	ug/Kg	☼	11/22/13 11:13	11/26/13 06:50	5
Aroclor-1248	1000	U	1000	ug/Kg	☼	11/22/13 11:13	11/26/13 06:50	5
Aroclor-1254	1000	U	1000	ug/Kg	☼	11/22/13 11:13	11/26/13 06:50	5
Aroclor-1260	2400		1000	ug/Kg	☼	11/22/13 11:13	11/26/13 06:50	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	106		29 - 151	11/22/13 11:13	11/26/13 06:50	5
DCB Decachlorobiphenyl	92		14 - 163	11/22/13 11:13	11/26/13 06:50	5

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-111913-SM-019

Date Collected: 11/19/13 14:10

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-6

Matrix: Solid

Percent Solids: 98.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	ug/Kg	☼	11/22/13 11:13	11/26/13 07:05	10
Aroclor-1221	2000	U	2000	ug/Kg	☼	11/22/13 11:13	11/26/13 07:05	10
Aroclor-1232	2000	U	2000	ug/Kg	☼	11/22/13 11:13	11/26/13 07:05	10
Aroclor-1242	2000	U	2000	ug/Kg	☼	11/22/13 11:13	11/26/13 07:05	10
Aroclor-1248	2000	U	2000	ug/Kg	☼	11/22/13 11:13	11/26/13 07:05	10
Aroclor-1254	2000	U	2000	ug/Kg	☼	11/22/13 11:13	11/26/13 07:05	10
Aroclor-1260	9400		2000	ug/Kg	☼	11/22/13 11:13	11/26/13 07:05	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	110		29 - 151	11/22/13 11:13	11/26/13 07:05	10
DCB Decachlorobiphenyl	105		14 - 163	11/22/13 11:13	11/26/13 07:05	10

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-111913-SM-024

Date Collected: 11/19/13 13:45

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-7

Matrix: Solid

Percent Solids: 97.6

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	400000	U	400000	ug/Kg	☼	11/22/13 11:13	11/26/13 07:20	2000
Aroclor-1221	400000	U	400000	ug/Kg	☼	11/22/13 11:13	11/26/13 07:20	2000
Aroclor-1232	400000	U	400000	ug/Kg	☼	11/22/13 11:13	11/26/13 07:20	2000
Aroclor-1242	400000	U	400000	ug/Kg	☼	11/22/13 11:13	11/26/13 07:20	2000
Aroclor-1248	400000	U	400000	ug/Kg	☼	11/22/13 11:13	11/26/13 07:20	2000
Aroclor-1254	400000	U	400000	ug/Kg	☼	11/22/13 11:13	11/26/13 07:20	2000
Aroclor-1260	4300000		400000	ug/Kg	☼	11/22/13 11:13	11/26/13 07:20	2000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	X	29 - 151	11/22/13 11:13	11/26/13 07:20	2000
DCB Decachlorobiphenyl	0	X	14 - 163	11/22/13 11:13	11/26/13 07:20	2000

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-111913-SM-025

Date Collected: 11/19/13 13:50

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-8

Matrix: Solid

Percent Solids: 97.2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2100	U	2100	ug/Kg	☼	11/22/13 11:13	11/26/13 07:35	10
Aroclor-1221	2100	U	2100	ug/Kg	☼	11/22/13 11:13	11/26/13 07:35	10
Aroclor-1232	2100	U	2100	ug/Kg	☼	11/22/13 11:13	11/26/13 07:35	10
Aroclor-1242	2100	U	2100	ug/Kg	☼	11/22/13 11:13	11/26/13 07:35	10
Aroclor-1248	2100	U	2100	ug/Kg	☼	11/22/13 11:13	11/26/13 07:35	10
Aroclor-1254	2100	U	2100	ug/Kg	☼	11/22/13 11:13	11/26/13 07:35	10
Aroclor-1260	26000		2100	ug/Kg	☼	11/22/13 11:13	11/26/13 07:35	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	113		29 - 151	11/22/13 11:13	11/26/13 07:35	10
DCB Decachlorobiphenyl	113		14 - 163	11/22/13 11:13	11/26/13 07:35	10

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-111913-SM-030

Date Collected: 11/19/13 10:15

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-9

Matrix: Solid

Percent Solids: 98.3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 11:48	1
Aroclor-1221	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 11:48	1
Aroclor-1232	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 11:48	1
Aroclor-1242	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 11:48	1
Aroclor-1248	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 11:48	1
Aroclor-1254	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 11:48	1
Aroclor-1260	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 11:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		29 - 151	11/22/13 11:13	11/26/13 11:48	1
DCB Decachlorobiphenyl	65		14 - 163	11/22/13 11:13	11/26/13 11:48	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-111913-SM-031

Date Collected: 11/19/13 11:05

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-10

Matrix: Solid

Percent Solids: 97.2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 08:05	1
Aroclor-1221	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 08:05	1
Aroclor-1232	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 08:05	1
Aroclor-1242	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 08:05	1
Aroclor-1248	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 08:05	1
Aroclor-1254	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 08:05	1
Aroclor-1260	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 08:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		29 - 151	11/22/13 11:13	11/26/13 08:05	1
DCB Decachlorobiphenyl	73		14 - 163	11/22/13 11:13	11/26/13 08:05	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-111913-SM-032

Date Collected: 11/19/13 11:10

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-11

Matrix: Solid

Percent Solids: 96.9

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 08:20	1
Aroclor-1221	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 08:20	1
Aroclor-1232	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 08:20	1
Aroclor-1242	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 08:20	1
Aroclor-1248	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 08:20	1
Aroclor-1254	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 08:20	1
Aroclor-1260	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 08:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		29 - 151	11/22/13 11:13	11/26/13 08:20	1
DCB Decachlorobiphenyl	90		14 - 163	11/22/13 11:13	11/26/13 08:20	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-111913-SM-033

Date Collected: 11/19/13 11:45

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-12

Matrix: Solid

Percent Solids: 95.6

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 08:34	1
Aroclor-1221	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 08:34	1
Aroclor-1232	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 08:34	1
Aroclor-1242	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 08:34	1
Aroclor-1248	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 08:34	1
Aroclor-1254	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 08:34	1
Aroclor-1260	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 08:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		29 - 151			11/22/13 11:13	11/26/13 08:34	1
DCB Decachlorobiphenyl	87		14 - 163			11/22/13 11:13	11/26/13 08:34	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-111913-SM-042

Date Collected: 11/19/13 10:25

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-13

Matrix: Solid

Percent Solids: 98.3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 08:49	1
Aroclor-1221	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 08:49	1
Aroclor-1232	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 08:49	1
Aroclor-1242	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 08:49	1
Aroclor-1248	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 08:49	1
Aroclor-1254	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 08:49	1
Aroclor-1260	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 08:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		29 - 151	11/22/13 11:13	11/26/13 08:49	1
DCB Decachlorobiphenyl	86		14 - 163	11/22/13 11:13	11/26/13 08:49	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-111913-SM-043

Date Collected: 11/19/13 10:30

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-14

Matrix: Solid

Percent Solids: 98.1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 09:34	1
Aroclor-1221	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 09:34	1
Aroclor-1232	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 09:34	1
Aroclor-1242	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 09:34	1
Aroclor-1248	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 09:34	1
Aroclor-1254	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 09:34	1
Aroclor-1260	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 09:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		29 - 151	11/22/13 11:13	11/26/13 09:34	1
DCB Decachlorobiphenyl	91		14 - 163	11/22/13 11:13	11/26/13 09:34	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-111913-SM-044

Lab Sample ID: 240-31741-15

Date Collected: 11/19/13 11:25

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 98.2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 09:49	1
Aroclor-1221	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 09:49	1
Aroclor-1232	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 09:49	1
Aroclor-1242	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 09:49	1
Aroclor-1248	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 09:49	1
Aroclor-1254	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 09:49	1
Aroclor-1260	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 09:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		29 - 151	11/22/13 11:13	11/26/13 09:49	1
DCB Decachlorobiphenyl	88		14 - 163	11/22/13 11:13	11/26/13 09:49	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-111913-SM-045

Date Collected: 11/19/13 11:30

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-16

Matrix: Solid

Percent Solids: 97.2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 10:04	1
Aroclor-1221	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 10:04	1
Aroclor-1232	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 10:04	1
Aroclor-1242	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 10:04	1
Aroclor-1248	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 10:04	1
Aroclor-1254	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 10:04	1
Aroclor-1260	210	U	210	ug/Kg	☼	11/22/13 11:13	11/26/13 10:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		29 - 151	11/22/13 11:13	11/26/13 10:04	1
DCB Decachlorobiphenyl	89		14 - 163	11/22/13 11:13	11/26/13 10:04	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-111913-SM-046

Date Collected: 11/19/13 14:20

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-17

Matrix: Solid

Percent Solids: 98.2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:18	1
Aroclor-1221	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:18	1
Aroclor-1232	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:18	1
Aroclor-1242	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:18	1
Aroclor-1248	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:18	1
Aroclor-1254	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:18	1
Aroclor-1260	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		29 - 151	11/22/13 11:13	11/26/13 10:18	1
DCB Decachlorobiphenyl	87		14 - 163	11/22/13 11:13	11/26/13 10:18	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-111913-SM-047

Date Collected: 11/19/13 14:25

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-18

Matrix: Solid

Percent Solids: 97.4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:33	1
Aroclor-1221	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:33	1
Aroclor-1232	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:33	1
Aroclor-1242	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:33	1
Aroclor-1248	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:33	1
Aroclor-1254	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:33	1
Aroclor-1260	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		29 - 151	11/22/13 11:13	11/26/13 10:33	1
DCB Decachlorobiphenyl	90		14 - 163	11/22/13 11:13	11/26/13 10:33	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-111913-SM-048

Date Collected: 11/19/13 14:45

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-19

Matrix: Solid

Percent Solids: 98.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:48	1
Aroclor-1221	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:48	1
Aroclor-1232	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:48	1
Aroclor-1242	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:48	1
Aroclor-1248	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:48	1
Aroclor-1254	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:48	1
Aroclor-1260	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 10:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		29 - 151	11/22/13 11:13	11/26/13 10:48	1
DCB Decachlorobiphenyl	81		14 - 163	11/22/13 11:13	11/26/13 10:48	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-111913-SM-049

Lab Sample ID: 240-31741-20

Date Collected: 11/19/13 14:50

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 97.8

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 11:03	1
Aroclor-1221	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 11:03	1
Aroclor-1232	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 11:03	1
Aroclor-1242	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 11:03	1
Aroclor-1248	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 11:03	1
Aroclor-1254	200	U	200	ug/Kg	☼	11/22/13 11:13	11/26/13 11:03	1
Aroclor-1260	250		200	ug/Kg	☼	11/22/13 11:13	11/26/13 11:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		29 - 151	11/22/13 11:13	11/26/13 11:03	1
DCB Decachlorobiphenyl	91		14 - 163	11/22/13 11:13	11/26/13 11:03	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: W-081129-111913-SM-022

Date Collected: 11/19/13 15:45

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-25

Matrix: Wipe

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	20	U	20	ug/Wipe		11/26/13 08:04	12/04/13 12:47	10
Aroclor-1221	20	U	20	ug/Wipe		11/26/13 08:04	12/04/13 12:47	10
Aroclor-1232	20	U	20	ug/Wipe		11/26/13 08:04	12/04/13 12:47	10
Aroclor-1242	20	U	20	ug/Wipe		11/26/13 08:04	12/04/13 12:47	10
Aroclor-1248	20	U	20	ug/Wipe		11/26/13 08:04	12/04/13 12:47	10
Aroclor-1254	20	U	20	ug/Wipe		11/26/13 08:04	12/04/13 12:47	10
Aroclor-1260	20	U	20	ug/Wipe		11/26/13 08:04	12/04/13 12:47	10
Aroclor-1262	20	U	20	ug/Wipe		11/26/13 08:04	12/04/13 12:47	10
Aroclor-1268	190		20	ug/Wipe		11/26/13 08:04	12/04/13 12:47	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	108		52 - 162			11/26/13 08:04	12/04/13 12:47	10
DCB Decachlorobiphenyl	222	X	35 - 162			11/26/13 08:04	12/04/13 12:47	10

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: W-081129-111913-SM-023

Lab Sample ID: 240-31741-26

Date Collected: 11/19/13 15:50

Matrix: Wipe

Date Received: 11/21/13 09:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2.0	U	2.0	ug/Wipe		11/29/13 08:34	12/03/13 09:43	1
Aroclor-1221	2.0	U	2.0	ug/Wipe		11/29/13 08:34	12/03/13 09:43	1
Aroclor-1232	2.0	U	2.0	ug/Wipe		11/29/13 08:34	12/03/13 09:43	1
Aroclor-1242	2.0	U	2.0	ug/Wipe		11/29/13 08:34	12/03/13 09:43	1
Aroclor-1248	2.0	U	2.0	ug/Wipe		11/29/13 08:34	12/03/13 09:43	1
Aroclor-1254	2.0	U	2.0	ug/Wipe		11/29/13 08:34	12/03/13 09:43	1
Aroclor-1260	7.3	*	2.0	ug/Wipe		11/29/13 08:34	12/03/13 09:43	1
Aroclor-1262	2.0	U	2.0	ug/Wipe		11/29/13 08:34	12/03/13 09:43	1
Aroclor-1268	2.0	U	2.0	ug/Wipe		11/29/13 08:34	12/03/13 09:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		52 - 162			11/29/13 08:34	12/03/13 09:43	1
DCB Decachlorobiphenyl	64		35 - 162			11/29/13 08:34	12/03/13 09:43	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: W-081129-111913-SM-027

Lab Sample ID: 240-31741-27

Date Collected: 11/19/13 15:30

Matrix: Wipe

Date Received: 11/21/13 09:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	10	U	10	ug/Wipe		11/29/13 08:34	12/03/13 15:18	5
Aroclor-1221	10	U	10	ug/Wipe		11/29/13 08:34	12/03/13 15:18	5
Aroclor-1232	10	U	10	ug/Wipe		11/29/13 08:34	12/03/13 15:18	5
Aroclor-1242	10	U	10	ug/Wipe		11/29/13 08:34	12/03/13 15:18	5
Aroclor-1248	10	U	10	ug/Wipe		11/29/13 08:34	12/03/13 15:18	5
Aroclor-1254	10	U	10	ug/Wipe		11/29/13 08:34	12/03/13 15:18	5
Aroclor-1260	37	*	10	ug/Wipe		11/29/13 08:34	12/03/13 15:18	5
Aroclor-1262	10	U	10	ug/Wipe		11/29/13 08:34	12/03/13 15:18	5
Aroclor-1268	10	U	10	ug/Wipe		11/29/13 08:34	12/03/13 15:18	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	109		52 - 162			11/29/13 08:34	12/03/13 15:18	5
DCB Decachlorobiphenyl	97		35 - 162			11/29/13 08:34	12/03/13 15:18	5

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: W-081129-111913-SM-028

Lab Sample ID: 240-31741-28

Date Collected: 11/19/13 15:35

Matrix: Wipe

Date Received: 11/21/13 09:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	20	U	20	ug/Wipe		11/29/13 08:34	12/03/13 15:33	10
Aroclor-1221	20	U	20	ug/Wipe		11/29/13 08:34	12/03/13 15:33	10
Aroclor-1232	20	U	20	ug/Wipe		11/29/13 08:34	12/03/13 15:33	10
Aroclor-1242	20	U	20	ug/Wipe		11/29/13 08:34	12/03/13 15:33	10
Aroclor-1248	20	U	20	ug/Wipe		11/29/13 08:34	12/03/13 15:33	10
Aroclor-1254	20	U	20	ug/Wipe		11/29/13 08:34	12/03/13 15:33	10
Aroclor-1260	130	*	20	ug/Wipe		11/29/13 08:34	12/03/13 15:33	10
Aroclor-1262	20	U	20	ug/Wipe		11/29/13 08:34	12/03/13 15:33	10
Aroclor-1268	20	U	20	ug/Wipe		11/29/13 08:34	12/03/13 15:33	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	X	52 - 162			11/29/13 08:34	12/03/13 15:33	10
DCB Decachlorobiphenyl	118		35 - 162			11/29/13 08:34	12/03/13 15:33	10

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 6010B - Metals (ICP) - TCLP

Client Sample ID: CC-081129-111913-SM-001

Date Collected: 11/19/13 09:30

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-1

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 17:11	1
Barium	10	U	10	mg/L		11/26/13 10:04	11/27/13 17:11	1
Cadmium	0.10	U	0.10	mg/L		11/26/13 10:04	11/27/13 17:11	1
Chromium	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 17:11	1
Lead	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 17:11	1
Selenium	0.25	U	0.25	mg/L		11/26/13 10:04	11/27/13 17:11	1
Silver	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 17:11	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 6010B - Metals (ICP) - TCLP

Client Sample ID: CC-081129-111913-SM-002

Date Collected: 11/19/13 09:35

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-2

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 17:17	1
Barium	10	U	10	mg/L		11/26/13 10:04	11/27/13 17:17	1
Cadmium	0.10	U	0.10	mg/L		11/26/13 10:04	11/27/13 17:17	1
Chromium	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 17:17	1
Lead	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 17:17	1
Selenium	0.25	U	0.25	mg/L		11/26/13 10:04	11/27/13 17:17	1
Silver	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 17:17	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 6010B - Metals (ICP) - TCLP

Client Sample ID: CC-081129-111913-SM-003

Date Collected: 11/19/13 09:40

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-3

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 17:23	1
Barium	10	U	10	mg/L		11/26/13 10:04	11/27/13 17:23	1
Cadmium	0.10	U	0.10	mg/L		11/26/13 10:04	11/27/13 17:23	1
Chromium	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 17:23	1
Lead	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 17:23	1
Selenium	0.25	U	0.25	mg/L		11/26/13 10:04	11/27/13 17:23	1
Silver	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 17:23	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 6010B - Metals (ICP) - TCLP

Client Sample ID: CC-081129-111913-SM-004

Date Collected: 11/19/13 09:50

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-4

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 17:29	1
Barium	10	U	10	mg/L		11/26/13 10:04	11/27/13 17:29	1
Cadmium	0.10	U	0.10	mg/L		11/26/13 10:04	11/27/13 17:29	1
Chromium	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 17:29	1
Lead	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 17:29	1
Selenium	0.25	U	0.25	mg/L		11/26/13 10:04	11/27/13 17:29	1
Silver	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 17:29	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 6010B - Metals (ICP) - TCLP

Client Sample ID: CC-081129-111913-SM-033

Date Collected: 11/19/13 11:45

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-12

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 17:35	1
Barium	10	U	10	mg/L		11/26/13 10:04	11/27/13 17:35	1
Cadmium	0.10	U	0.10	mg/L		11/26/13 10:04	11/27/13 17:35	1
Chromium	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 17:35	1
Lead	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 17:35	1
Selenium	0.25	U	0.25	mg/L		11/26/13 10:04	11/27/13 17:35	1
Silver	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 17:35	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 7470A - Mercury (CVAA) - TCLP

Client Sample ID: CC-081129-111913-SM-001

Date Collected: 11/19/13 09:30

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-1

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	mg/L		11/26/13 13:45	11/26/13 17:35	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 7470A - Mercury (CVAA) - TCLP

Client Sample ID: CC-081129-111913-SM-002

Date Collected: 11/19/13 09:35

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-2

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	mg/L		11/26/13 13:45	11/26/13 17:39	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 7470A - Mercury (CVAA) - TCLP

Client Sample ID: CC-081129-111913-SM-003

Date Collected: 11/19/13 09:40

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-3

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	mg/L		11/26/13 13:45	11/26/13 17:30	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 7470A - Mercury (CVAA) - TCLP

Client Sample ID: CC-081129-111913-SM-004

Date Collected: 11/19/13 09:50

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-4

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	mg/L		11/26/13 13:45	11/26/13 17:33	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 7470A - Mercury (CVAA) - TCLP

Client Sample ID: CC-081129-111913-SM-033

Date Collected: 11/19/13 11:45

Date Received: 11/21/13 09:10

Lab Sample ID: 240-31741-12

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	mg/L		11/26/13 13:45	11/26/13 17:22	1

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

GC Semi VOA

Prep Batch: 111080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31741-1	CC-081129-111913-SM-001	Total/NA	Solid	3540C	
240-31741-2	CC-081129-111913-SM-002	Total/NA	Solid	3540C	
240-31741-3	CC-081129-111913-SM-003	Total/NA	Solid	3540C	
240-31741-4	CC-081129-111913-SM-004	Total/NA	Solid	3540C	
240-31741-5	CC-081129-111913-SM-018	Total/NA	Solid	3540C	
240-31741-6	CC-081129-111913-SM-019	Total/NA	Solid	3540C	
240-31741-7	CC-081129-111913-SM-024	Total/NA	Solid	3540C	
240-31741-8	CC-081129-111913-SM-025	Total/NA	Solid	3540C	
240-31741-9	CC-081129-111913-SM-030	Total/NA	Solid	3540C	
240-31741-10	CC-081129-111913-SM-031	Total/NA	Solid	3540C	
240-31741-11	CC-081129-111913-SM-032	Total/NA	Solid	3540C	
240-31741-12	CC-081129-111913-SM-033	Total/NA	Solid	3540C	
240-31741-13	CC-081129-111913-SM-042	Total/NA	Solid	3540C	
240-31741-14	CC-081129-111913-SM-043	Total/NA	Solid	3540C	
240-31741-15	CC-081129-111913-SM-044	Total/NA	Solid	3540C	
240-31741-16	CC-081129-111913-SM-045	Total/NA	Solid	3540C	
240-31741-17	CC-081129-111913-SM-046	Total/NA	Solid	3540C	
240-31741-18	CC-081129-111913-SM-047	Total/NA	Solid	3540C	
240-31741-19	CC-081129-111913-SM-048	Total/NA	Solid	3540C	
240-31741-20	CC-081129-111913-SM-049	Total/NA	Solid	3540C	
240-31741-20 MS	CC-081129-111913-SM-049	Total/NA	Solid	3540C	
240-31741-20 MSD	CC-081129-111913-SM-049	Total/NA	Solid	3540C	
LCS 240-111080/24-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-111080/23-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 111385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31741-1	CC-081129-111913-SM-001	Total/NA	Solid	8082	111080
240-31741-2	CC-081129-111913-SM-002	Total/NA	Solid	8082	111080
240-31741-3	CC-081129-111913-SM-003	Total/NA	Solid	8082	111080
240-31741-4	CC-081129-111913-SM-004	Total/NA	Solid	8082	111080
240-31741-5	CC-081129-111913-SM-018	Total/NA	Solid	8082	111080
240-31741-6	CC-081129-111913-SM-019	Total/NA	Solid	8082	111080
240-31741-7	CC-081129-111913-SM-024	Total/NA	Solid	8082	111080
240-31741-8	CC-081129-111913-SM-025	Total/NA	Solid	8082	111080
240-31741-9	CC-081129-111913-SM-030	Total/NA	Solid	8082	111080
240-31741-10	CC-081129-111913-SM-031	Total/NA	Solid	8082	111080
240-31741-11	CC-081129-111913-SM-032	Total/NA	Solid	8082	111080
240-31741-12	CC-081129-111913-SM-033	Total/NA	Solid	8082	111080
240-31741-13	CC-081129-111913-SM-042	Total/NA	Solid	8082	111080
240-31741-14	CC-081129-111913-SM-043	Total/NA	Solid	8082	111080
240-31741-15	CC-081129-111913-SM-044	Total/NA	Solid	8082	111080
240-31741-16	CC-081129-111913-SM-045	Total/NA	Solid	8082	111080
240-31741-17	CC-081129-111913-SM-046	Total/NA	Solid	8082	111080
240-31741-18	CC-081129-111913-SM-047	Total/NA	Solid	8082	111080
240-31741-19	CC-081129-111913-SM-048	Total/NA	Solid	8082	111080
240-31741-20	CC-081129-111913-SM-049	Total/NA	Solid	8082	111080
240-31741-20 MS	CC-081129-111913-SM-049	Total/NA	Solid	8082	111080
240-31741-20 MSD	CC-081129-111913-SM-049	Total/NA	Solid	8082	111080
LCS 240-111080/24-A	Lab Control Sample	Total/NA	Solid	8082	111080
MB 240-111080/23-A	Method Blank	Total/NA	Solid	8082	111080

TestAmerica Canton

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

GC Semi VOA (Continued)

Prep Batch: 111408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31741-25	W-081129-111913-SM-022	Total/NA	Wipe	3540C	
LCS 240-111408/22-A	Lab Control Sample	Total/NA	Wipe	3540C	
MB 240-111408/21-A	Method Blank	Total/NA	Wipe	3540C	

Analysis Batch: 111682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-111408/22-A	Lab Control Sample	Total/NA	Wipe	8082	111408
MB 240-111408/21-A	Method Blank	Total/NA	Wipe	8082	111408

Prep Batch: 111699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31741-26	W-081129-111913-SM-023	Total/NA	Wipe	3540C	
240-31741-27	W-081129-111913-SM-027	Total/NA	Wipe	3540C	
240-31741-28	W-081129-111913-SM-028	Total/NA	Wipe	3540C	
LCS 240-111699/7-A	Lab Control Sample	Total/NA	Wipe	3540C	
MB 240-111699/6-A	Method Blank	Total/NA	Wipe	3540C	

Analysis Batch: 112001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31741-26	W-081129-111913-SM-023	Total/NA	Wipe	8082	111699
LCS 240-111699/7-A	Lab Control Sample	Total/NA	Wipe	8082	111699
MB 240-111699/6-A	Method Blank	Total/NA	Wipe	8082	111699

Analysis Batch: 112105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31741-27	W-081129-111913-SM-027	Total/NA	Wipe	8082	111699
240-31741-28	W-081129-111913-SM-028	Total/NA	Wipe	8082	111699

Analysis Batch: 112227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31741-25	W-081129-111913-SM-022	Total/NA	Wipe	8082	111408

Metals

Leach Batch: 111370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31741-1	CC-081129-111913-SM-001	TCLP	Solid	1311	
240-31741-2	CC-081129-111913-SM-002	TCLP	Solid	1311	
240-31741-3	CC-081129-111913-SM-003	TCLP	Solid	1311	
240-31741-4	CC-081129-111913-SM-004	TCLP	Solid	1311	
240-31741-12	CC-081129-111913-SM-033	TCLP	Solid	1311	
LB 240-111370/1-B LB	Method Blank	TCLP	Solid	1311	
LB 240-111370/1-C LB	Method Blank	TCLP	Solid	1311	

Prep Batch: 111432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31741-1	CC-081129-111913-SM-001	TCLP	Solid	3010A	111370
240-31741-2	CC-081129-111913-SM-002	TCLP	Solid	3010A	111370
240-31741-3	CC-081129-111913-SM-003	TCLP	Solid	3010A	111370
240-31741-4	CC-081129-111913-SM-004	TCLP	Solid	3010A	111370

TestAmerica Canton

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Metals (Continued)

Prep Batch: 111432 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31741-12	CC-081129-111913-SM-033	TCLP	Solid	3010A	111370
LB 240-111370/1-B LB	Method Blank	TCLP	Solid	3010A	111370
LCS 240-111432/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 240-111432/2-A	Method Blank	Total/NA	Solid	3010A	

Prep Batch: 111438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31741-1	CC-081129-111913-SM-001	TCLP	Solid	7470A	111370
240-31741-2	CC-081129-111913-SM-002	TCLP	Solid	7470A	111370
240-31741-3	CC-081129-111913-SM-003	TCLP	Solid	7470A	111370
240-31741-4	CC-081129-111913-SM-004	TCLP	Solid	7470A	111370
240-31741-12	CC-081129-111913-SM-033	TCLP	Solid	7470A	111370
LB 240-111370/1-C LB	Method Blank	TCLP	Solid	7470A	111370
LCS 240-111438/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 240-111438/2-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 111487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31741-1	CC-081129-111913-SM-001	TCLP	Solid	7470A	111438
240-31741-2	CC-081129-111913-SM-002	TCLP	Solid	7470A	111438
240-31741-3	CC-081129-111913-SM-003	TCLP	Solid	7470A	111438
240-31741-4	CC-081129-111913-SM-004	TCLP	Solid	7470A	111438
240-31741-12	CC-081129-111913-SM-033	TCLP	Solid	7470A	111438
LB 240-111370/1-C LB	Method Blank	TCLP	Solid	7470A	111438
LCS 240-111438/3-A	Lab Control Sample	Total/NA	Solid	7470A	111438
MB 240-111438/2-A	Method Blank	Total/NA	Solid	7470A	111438

Analysis Batch: 111599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 240-111370/1-B LB	Method Blank	TCLP	Solid	6010B	111432
LCS 240-111432/3-A	Lab Control Sample	Total/NA	Solid	6010B	111432
MB 240-111432/2-A	Method Blank	Total/NA	Solid	6010B	111432

Analysis Batch: 111695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31741-1	CC-081129-111913-SM-001	TCLP	Solid	6010B	111432
240-31741-2	CC-081129-111913-SM-002	TCLP	Solid	6010B	111432
240-31741-3	CC-081129-111913-SM-003	TCLP	Solid	6010B	111432
240-31741-4	CC-081129-111913-SM-004	TCLP	Solid	6010B	111432
240-31741-12	CC-081129-111913-SM-033	TCLP	Solid	6010B	111432
LB 240-111370/1-B LB	Method Blank	TCLP	Solid	6010B	111432
LCS 240-111432/3-A	Lab Control Sample	Total/NA	Solid	6010B	111432
MB 240-111432/2-A	Method Blank	Total/NA	Solid	6010B	111432

General Chemistry

Analysis Batch: 111130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31741-1	CC-081129-111913-SM-001	Total/NA	Solid	Moisture	
240-31741-2	CC-081129-111913-SM-002	Total/NA	Solid	Moisture	

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QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

General Chemistry (Continued)

Analysis Batch: 111130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-31741-3	CC-081129-111913-SM-003	Total/NA	Solid	Moisture	
240-31741-4	CC-081129-111913-SM-004	Total/NA	Solid	Moisture	
240-31741-5	CC-081129-111913-SM-018	Total/NA	Solid	Moisture	
240-31741-6	CC-081129-111913-SM-019	Total/NA	Solid	Moisture	
240-31741-7	CC-081129-111913-SM-024	Total/NA	Solid	Moisture	
240-31741-8	CC-081129-111913-SM-025	Total/NA	Solid	Moisture	
240-31741-9	CC-081129-111913-SM-030	Total/NA	Solid	Moisture	
240-31741-10	CC-081129-111913-SM-031	Total/NA	Solid	Moisture	
240-31741-11	CC-081129-111913-SM-032	Total/NA	Solid	Moisture	
240-31741-12	CC-081129-111913-SM-033	Total/NA	Solid	Moisture	
240-31741-13	CC-081129-111913-SM-042	Total/NA	Solid	Moisture	
240-31741-14	CC-081129-111913-SM-043	Total/NA	Solid	Moisture	
240-31741-15	CC-081129-111913-SM-044	Total/NA	Solid	Moisture	
240-31741-16	CC-081129-111913-SM-045	Total/NA	Solid	Moisture	
240-31741-17	CC-081129-111913-SM-046	Total/NA	Solid	Moisture	
240-31741-18	CC-081129-111913-SM-047	Total/NA	Solid	Moisture	
240-31741-19	CC-081129-111913-SM-048	Total/NA	Solid	Moisture	
240-31741-20	CC-081129-111913-SM-049	Total/NA	Solid	Moisture	

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-111080/23-A

Matrix: Solid

Analysis Batch: 111385

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 111080

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	ug/Kg		11/22/13 11:13	11/26/13 09:04	1
Aroclor-1221	200	U	200	ug/Kg		11/22/13 11:13	11/26/13 09:04	1
Aroclor-1232	200	U	200	ug/Kg		11/22/13 11:13	11/26/13 09:04	1
Aroclor-1242	200	U	200	ug/Kg		11/22/13 11:13	11/26/13 09:04	1
Aroclor-1248	200	U	200	ug/Kg		11/22/13 11:13	11/26/13 09:04	1
Aroclor-1254	200	U	200	ug/Kg		11/22/13 11:13	11/26/13 09:04	1
Aroclor-1260	200	U	200	ug/Kg		11/22/13 11:13	11/26/13 09:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		29 - 151	11/22/13 11:13	11/26/13 09:04	1
DCB Decachlorobiphenyl	92		14 - 163	11/22/13 11:13	11/26/13 09:04	1

Lab Sample ID: LCS 240-111080/24-A

Matrix: Solid

Analysis Batch: 111385

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2000	1770		ug/Kg		89	62 - 120
Aroclor-1260	2000	1560		ug/Kg		78	56 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	81		29 - 151
DCB Decachlorobiphenyl	77		14 - 163

Lab Sample ID: 240-31741-20 MS

Matrix: Solid

Analysis Batch: 111385

Client Sample ID: CC-081129-111913-SM-049

Prep Type: Total/NA

Prep Batch: 111080

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	200	U	2030	1600		ug/Kg	☼	79	22 - 157
Aroclor-1260	250		2030	1760		ug/Kg	☼	75	13 - 161

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	84		29 - 151
DCB Decachlorobiphenyl	90		14 - 163

Lab Sample ID: 240-31741-20 MSD

Matrix: Solid

Analysis Batch: 111385

Client Sample ID: CC-081129-111913-SM-049

Prep Type: Total/NA

Prep Batch: 111080

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Aroclor-1016	200	U	2040	1590		ug/Kg	☼	78	22 - 157	1	30
Aroclor-1260	250		2040	1800		ug/Kg	☼	76	13 - 161	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	81		29 - 151
DCB Decachlorobiphenyl	90		14 - 163

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 240-111408/21-A

Matrix: Wipe

Analysis Batch: 111682

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 111408

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2.0	U	2.0	ug/Wipe		11/26/13 08:04	11/28/13 08:09	1
Aroclor-1221	2.0	U	2.0	ug/Wipe		11/26/13 08:04	11/28/13 08:09	1
Aroclor-1232	2.0	U	2.0	ug/Wipe		11/26/13 08:04	11/28/13 08:09	1
Aroclor-1242	2.0	U	2.0	ug/Wipe		11/26/13 08:04	11/28/13 08:09	1
Aroclor-1248	2.0	U	2.0	ug/Wipe		11/26/13 08:04	11/28/13 08:09	1
Aroclor-1254	2.0	U	2.0	ug/Wipe		11/26/13 08:04	11/28/13 08:09	1
Aroclor-1260	2.0	U	2.0	ug/Wipe		11/26/13 08:04	11/28/13 08:09	1
Aroclor-1262	2.0	U	2.0	ug/Wipe		11/26/13 08:04	11/28/13 08:09	1
Aroclor-1268	2.0	U	2.0	ug/Wipe		11/26/13 08:04	11/28/13 08:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		52 - 162	11/26/13 08:04	11/28/13 08:09	1
DCB Decachlorobiphenyl	78		35 - 162	11/26/13 08:04	11/28/13 08:09	1

Lab Sample ID: LCS 240-111408/22-A

Matrix: Wipe

Analysis Batch: 111682

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111408

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	10.0	8.89		ug/Wipe		89	56 - 160
Aroclor-1260	10.0	8.75		ug/Wipe		88	60 - 151

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	90		52 - 162
DCB Decachlorobiphenyl	81		35 - 162

Lab Sample ID: MB 240-111699/6-A

Matrix: Wipe

Analysis Batch: 112001

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 111699

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2.0	U	2.0	ug/Wipe		11/29/13 08:34	12/03/13 10:59	1
Aroclor-1221	2.0	U	2.0	ug/Wipe		11/29/13 08:34	12/03/13 10:59	1
Aroclor-1232	2.0	U	2.0	ug/Wipe		11/29/13 08:34	12/03/13 10:59	1
Aroclor-1242	2.0	U	2.0	ug/Wipe		11/29/13 08:34	12/03/13 10:59	1
Aroclor-1248	2.0	U	2.0	ug/Wipe		11/29/13 08:34	12/03/13 10:59	1
Aroclor-1254	2.0	U	2.0	ug/Wipe		11/29/13 08:34	12/03/13 10:59	1
Aroclor-1260	2.0	U	2.0	ug/Wipe		11/29/13 08:34	12/03/13 10:59	1
Aroclor-1262	2.0	U	2.0	ug/Wipe		11/29/13 08:34	12/03/13 10:59	1
Aroclor-1268	2.0	U	2.0	ug/Wipe		11/29/13 08:34	12/03/13 10:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		52 - 162	11/29/13 08:34	12/03/13 10:59	1
DCB Decachlorobiphenyl	53		35 - 162	11/29/13 08:34	12/03/13 10:59	1

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-111699/7-A

Matrix: Wipe

Analysis Batch: 112001

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	10.0	6.01		ug/Wipe		60	56 - 160
Aroclor-1260	10.0	5.56	*	ug/Wipe		56	60 - 151

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	62		52 - 162
DCB Decachlorobiphenyl	61		35 - 162

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-111432/2-A

Matrix: Solid

Analysis Batch: 111599

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 111432

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 07:21	1
Barium	10	U	10	mg/L		11/26/13 10:04	11/27/13 07:21	1
Cadmium	0.10	U	0.10	mg/L		11/26/13 10:04	11/27/13 07:21	1
Chromium	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 07:21	1
Lead	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 07:21	1
Selenium	0.25	U	0.25	mg/L		11/26/13 10:04	11/27/13 07:21	1
Silver	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 07:21	1

Lab Sample ID: MB 240-111432/2-A

Matrix: Solid

Analysis Batch: 111695

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 111432

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 16:59	1
Barium	10	U	10	mg/L		11/26/13 10:04	11/27/13 16:59	1
Cadmium	0.10	U	0.10	mg/L		11/26/13 10:04	11/27/13 16:59	1
Chromium	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 16:59	1
Lead	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 16:59	1
Selenium	0.25	U	0.25	mg/L		11/26/13 10:04	11/27/13 16:59	1
Silver	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 16:59	1

Lab Sample ID: LCS 240-111432/3-A

Matrix: Solid

Analysis Batch: 111599

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2.00	2.04		mg/L		102	50 - 150
Barium	2.00	10	U	mg/L		104	50 - 150
Cadmium	0.0500	0.10	U	mg/L		101	50 - 150
Chromium	0.200	0.50	U	mg/L		104	50 - 150
Lead	0.500	0.514		mg/L		103	50 - 150
Selenium	2.00	2.15		mg/L		107	50 - 150
Silver	0.0500	0.50	U	mg/L		102	50 - 150

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-111432/3-A

Matrix: Solid

Analysis Batch: 111695

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2.00	2.07		mg/L		104	50 - 150
Barium	2.00	10	U	mg/L		106	50 - 150
Cadmium	0.0500	0.10	U	mg/L		98	50 - 150
Chromium	0.200	0.50	U	mg/L		102	50 - 150
Lead	0.500	0.50	U	mg/L		99	50 - 150
Selenium	2.00	2.00		mg/L		100	50 - 150
Silver	0.0500	0.50	U	mg/L		104	50 - 150

Lab Sample ID: LB 240-111370/1-B LB

Matrix: Solid

Analysis Batch: 111599

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 111432

Analyte	LB Result	LB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 07:12	1
Barium	10	U	10	mg/L		11/26/13 10:04	11/27/13 07:12	1
Cadmium	0.10	U	0.10	mg/L		11/26/13 10:04	11/27/13 07:12	1
Chromium	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 07:12	1
Lead	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 07:12	1
Selenium	0.25	U	0.25	mg/L		11/26/13 10:04	11/27/13 07:12	1
Silver	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 07:12	1

Lab Sample ID: LB 240-111370/1-B LB

Matrix: Solid

Analysis Batch: 111695

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 111432

Analyte	LB Result	LB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 16:52	1
Barium	10	U	10	mg/L		11/26/13 10:04	11/27/13 16:52	1
Cadmium	0.10	U	0.10	mg/L		11/26/13 10:04	11/27/13 16:52	1
Chromium	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 16:52	1
Lead	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 16:52	1
Selenium	0.25	U	0.25	mg/L		11/26/13 10:04	11/27/13 16:52	1
Silver	0.50	U	0.50	mg/L		11/26/13 10:04	11/27/13 16:52	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-111438/2-A

Matrix: Solid

Analysis Batch: 111487

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 111438

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	mg/L		11/26/13 13:45	11/26/13 17:12	1

Lab Sample ID: LCS 240-111438/3-A

Matrix: Solid

Analysis Batch: 111487

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00500	0.00495		mg/L		99	50 - 150

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LB 240-111370/1-C LB

Matrix: Solid

Analysis Batch: 111487

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 111438

Analyte	LB Result	LB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	mg/L	—	11/26/13 13:45	11/26/13 17:11	1

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TCX1 (29-151)	DCB1 (14-163)				
240-31741-1	CC-081129-111913-SM-001	77	80				
240-31741-2	CC-081129-111913-SM-002	82	77				
240-31741-3	CC-081129-111913-SM-003	76	85				
240-31741-4	CC-081129-111913-SM-004	88	86				
240-31741-5	CC-081129-111913-SM-018	106	92				
240-31741-6	CC-081129-111913-SM-019	110	105				
240-31741-7	CC-081129-111913-SM-024	0 X	0 X				
240-31741-8	CC-081129-111913-SM-025	113	113				
240-31741-9	CC-081129-111913-SM-030	85	65				
240-31741-10	CC-081129-111913-SM-031	78	73				
240-31741-11	CC-081129-111913-SM-032	88	90				
240-31741-12	CC-081129-111913-SM-033	75	87				
240-31741-13	CC-081129-111913-SM-042	83	86				
240-31741-14	CC-081129-111913-SM-043	85	91				
240-31741-15	CC-081129-111913-SM-044	82	88				
240-31741-16	CC-081129-111913-SM-045	85	89				
240-31741-17	CC-081129-111913-SM-046	88	87				
240-31741-18	CC-081129-111913-SM-047	82	90				
240-31741-19	CC-081129-111913-SM-048	81	81				
240-31741-20	CC-081129-111913-SM-049	78	91				
240-31741-20 MS	CC-081129-111913-SM-049	84	90				
240-31741-20 MSD	CC-081129-111913-SM-049	81	90				
LCS 240-111080/24-A	Lab Control Sample	81	77				
MB 240-111080/23-A	Method Blank	86	92				
Surrogate Legend							
TCX = Tetrachloro-m-xylene							
DCB = DCB Decachlorobiphenyl							

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Wipe

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TCX1 (52-162)	DCB1 (35-162)				
240-31741-25	W-081129-111913-SM-022	108	222 X				
LCS 240-111408/22-A	Lab Control Sample	90	81				
MB 240-111408/21-A	Method Blank	84	78				
Surrogate Legend							
TCX = Tetrachloro-m-xylene							
DCB = DCB Decachlorobiphenyl							

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Wipe

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TCX2 (52-162)	DCB2 (35-162)				
240-31741-26	W-081129-111913-SM-023	67	64				

TestAmerica Canton

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Wipe

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (52-162)	DCB2 (35-162)
240-31741-27	W-081129-111913-SM-027	109	97
240-31741-28	W-081129-111913-SM-028	0 X	118
LCS 240-111699/7-A	Lab Control Sample	62	61
MB 240-111699/6-A	Method Blank	78	53

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Client Sample ID: CC-081129-111913-SM-001

Lab Sample ID: 240-31741-1

Date Collected: 11/19/13 09:30

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111080	11/22/13 11:13	JS1	TAL CAN
Total/NA	Analysis	8082		1	111385	11/26/13 05:51	RSK	TAL CAN
TCLP	Leach	1311			111370	11/25/13 15:30	DRJ	TAL CAN
TCLP	Prep	7470A			111438	11/26/13 13:45	DEE	TAL CAN
TCLP	Analysis	7470A		1	111487	11/26/13 17:35	AMM2	TAL CAN
TCLP	Leach	1311			111370	11/25/13 15:30	DRJ	TAL CAN
TCLP	Prep	3010A			111432	11/26/13 10:04	DEE	TAL CAN
TCLP	Analysis	6010B		1	111695	11/27/13 17:11	NJT	TAL CAN
Total/NA	Analysis	Moisture		1	111130	11/22/13 14:28	KMG	TAL CAN

Client Sample ID: CC-081129-111913-SM-002

Lab Sample ID: 240-31741-2

Date Collected: 11/19/13 09:35

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111080	11/22/13 11:13	JS1	TAL CAN
Total/NA	Analysis	8082		1	111385	11/26/13 06:06	RSK	TAL CAN
TCLP	Leach	1311			111370	11/25/13 15:30	DRJ	TAL CAN
TCLP	Prep	7470A			111438	11/26/13 13:45	DEE	TAL CAN
TCLP	Analysis	7470A		1	111487	11/26/13 17:39	AMM2	TAL CAN
TCLP	Leach	1311			111370	11/25/13 15:30	DRJ	TAL CAN
TCLP	Prep	3010A			111432	11/26/13 10:04	DEE	TAL CAN
TCLP	Analysis	6010B		1	111695	11/27/13 17:17	NJT	TAL CAN
Total/NA	Analysis	Moisture		1	111130	11/22/13 14:28	KMG	TAL CAN

Client Sample ID: CC-081129-111913-SM-003

Lab Sample ID: 240-31741-3

Date Collected: 11/19/13 09:40

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111080	11/22/13 11:13	JS1	TAL CAN
Total/NA	Analysis	8082		1	111385	11/26/13 06:21	RSK	TAL CAN
TCLP	Leach	1311			111370	11/25/13 15:30	DRJ	TAL CAN
TCLP	Prep	7470A			111438	11/26/13 13:45	DEE	TAL CAN
TCLP	Analysis	7470A		1	111487	11/26/13 17:30	AMM2	TAL CAN
TCLP	Leach	1311			111370	11/25/13 15:30	DRJ	TAL CAN
TCLP	Prep	3010A			111432	11/26/13 10:04	DEE	TAL CAN
TCLP	Analysis	6010B		1	111695	11/27/13 17:23	NJT	TAL CAN
Total/NA	Analysis	Moisture		1	111130	11/22/13 14:28	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Client Sample ID: CC-081129-111913-SM-004

Lab Sample ID: 240-31741-4

Date Collected: 11/19/13 09:50

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111080	11/22/13 11:13	JS1	TAL CAN
Total/NA	Analysis	8082		1	111385	11/26/13 06:35	RSK	TAL CAN
TCLP	Leach	1311			111370	11/25/13 15:30	DRJ	TAL CAN
TCLP	Prep	7470A			111438	11/26/13 13:45	DEE	TAL CAN
TCLP	Analysis	7470A		1	111487	11/26/13 17:33	AMM2	TAL CAN
TCLP	Leach	1311			111370	11/25/13 15:30	DRJ	TAL CAN
TCLP	Prep	3010A			111432	11/26/13 10:04	DEE	TAL CAN
TCLP	Analysis	6010B		1	111695	11/27/13 17:29	NJT	TAL CAN
Total/NA	Analysis	Moisture		1	111130	11/22/13 14:28	KMG	TAL CAN

Client Sample ID: CC-081129-111913-SM-018

Lab Sample ID: 240-31741-5

Date Collected: 11/19/13 14:05

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 98.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111080	11/22/13 11:13	JS1	TAL CAN
Total/NA	Analysis	8082		5	111385	11/26/13 06:50	RSK	TAL CAN
Total/NA	Analysis	Moisture		1	111130	11/22/13 14:43	KMG	TAL CAN

Client Sample ID: CC-081129-111913-SM-019

Lab Sample ID: 240-31741-6

Date Collected: 11/19/13 14:10

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111080	11/22/13 11:13	JS1	TAL CAN
Total/NA	Analysis	8082		10	111385	11/26/13 07:05	RSK	TAL CAN
Total/NA	Analysis	Moisture		1	111130	11/22/13 14:43	KMG	TAL CAN

Client Sample ID: CC-081129-111913-SM-024

Lab Sample ID: 240-31741-7

Date Collected: 11/19/13 13:45

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111080	11/22/13 11:13	JS1	TAL CAN
Total/NA	Analysis	8082		2000	111385	11/26/13 07:20	RSK	TAL CAN
Total/NA	Analysis	Moisture		1	111130	11/22/13 14:43	KMG	TAL CAN

Client Sample ID: CC-081129-111913-SM-025

Lab Sample ID: 240-31741-8

Date Collected: 11/19/13 13:50

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111080	11/22/13 11:13	JS1	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Client Sample ID: CC-081129-111913-SM-025

Lab Sample ID: 240-31741-8

Date Collected: 11/19/13 13:50

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		10	111385	11/26/13 07:35	RSK	TAL CAN
Total/NA	Analysis	Moisture		1	111130	11/22/13 14:43	KMG	TAL CAN

Client Sample ID: CC-081129-111913-SM-030

Lab Sample ID: 240-31741-9

Date Collected: 11/19/13 10:15

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 98.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111080	11/22/13 11:13	JS1	TAL CAN
Total/NA	Analysis	8082		1	111385	11/26/13 11:48	RSK	TAL CAN
Total/NA	Analysis	Moisture		1	111130	11/22/13 14:43	KMG	TAL CAN

Client Sample ID: CC-081129-111913-SM-031

Lab Sample ID: 240-31741-10

Date Collected: 11/19/13 11:05

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111080	11/22/13 11:13	JS1	TAL CAN
Total/NA	Analysis	8082		1	111385	11/26/13 08:05	RSK	TAL CAN
Total/NA	Analysis	Moisture		1	111130	11/22/13 14:43	KMG	TAL CAN

Client Sample ID: CC-081129-111913-SM-032

Lab Sample ID: 240-31741-11

Date Collected: 11/19/13 11:10

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 96.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111080	11/22/13 11:13	JS1	TAL CAN
Total/NA	Analysis	8082		1	111385	11/26/13 08:20	RSK	TAL CAN
Total/NA	Analysis	Moisture		1	111130	11/22/13 14:43	KMG	TAL CAN

Client Sample ID: CC-081129-111913-SM-033

Lab Sample ID: 240-31741-12

Date Collected: 11/19/13 11:45

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111080	11/22/13 11:13	JS1	TAL CAN
Total/NA	Analysis	8082		1	111385	11/26/13 08:34	RSK	TAL CAN
TCLP	Leach	1311			111370	11/25/13 15:30	DRJ	TAL CAN
TCLP	Prep	7470A			111438	11/26/13 13:45	DEE	TAL CAN
TCLP	Analysis	7470A		1	111487	11/26/13 17:22	AMM2	TAL CAN
TCLP	Leach	1311			111370	11/25/13 15:30	DRJ	TAL CAN
TCLP	Prep	3010A			111432	11/26/13 10:04	DEE	TAL CAN
TCLP	Analysis	6010B		1	111695	11/27/13 17:35	NJT	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Client Sample ID: CC-081129-111913-SM-033

Lab Sample ID: 240-31741-12

Date Collected: 11/19/13 11:45

Matrix: Solid

Date Received: 11/21/13 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	111130	11/22/13 14:43	KMG	TAL CAN

Client Sample ID: CC-081129-111913-SM-042

Lab Sample ID: 240-31741-13

Date Collected: 11/19/13 10:25

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 98.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111080	11/22/13 11:13	JS1	TAL CAN
Total/NA	Analysis	8082		1	111385	11/26/13 08:49	RSK	TAL CAN
Total/NA	Analysis	Moisture		1	111130	11/22/13 14:43	KMG	TAL CAN

Client Sample ID: CC-081129-111913-SM-043

Lab Sample ID: 240-31741-14

Date Collected: 11/19/13 10:30

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111080	11/22/13 11:13	JS1	TAL CAN
Total/NA	Analysis	8082		1	111385	11/26/13 09:34	RSK	TAL CAN
Total/NA	Analysis	Moisture		1	111130	11/22/13 14:45	KMG	TAL CAN

Client Sample ID: CC-081129-111913-SM-044

Lab Sample ID: 240-31741-15

Date Collected: 11/19/13 11:25

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111080	11/22/13 11:13	JS1	TAL CAN
Total/NA	Analysis	8082		1	111385	11/26/13 09:49	RSK	TAL CAN
Total/NA	Analysis	Moisture		1	111130	11/22/13 14:45	KMG	TAL CAN

Client Sample ID: CC-081129-111913-SM-045

Lab Sample ID: 240-31741-16

Date Collected: 11/19/13 11:30

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111080	11/22/13 11:13	JS1	TAL CAN
Total/NA	Analysis	8082		1	111385	11/26/13 10:04	RSK	TAL CAN
Total/NA	Analysis	Moisture		1	111130	11/22/13 14:45	KMG	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Client Sample ID: CC-081129-111913-SM-046

Lab Sample ID: 240-31741-17

Date Collected: 11/19/13 14:20

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111080	11/22/13 11:13	JS1	TAL CAN
Total/NA	Analysis	8082		1	111385	11/26/13 10:18	RSK	TAL CAN
Total/NA	Analysis	Moisture		1	111130	11/22/13 14:45	KMG	TAL CAN

Client Sample ID: CC-081129-111913-SM-047

Lab Sample ID: 240-31741-18

Date Collected: 11/19/13 14:25

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111080	11/22/13 11:13	JS1	TAL CAN
Total/NA	Analysis	8082		1	111385	11/26/13 10:33	RSK	TAL CAN
Total/NA	Analysis	Moisture		1	111130	11/22/13 14:45	KMG	TAL CAN

Client Sample ID: CC-081129-111913-SM-048

Lab Sample ID: 240-31741-19

Date Collected: 11/19/13 14:45

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111080	11/22/13 11:13	JS1	TAL CAN
Total/NA	Analysis	8082		1	111385	11/26/13 10:48	RSK	TAL CAN
Total/NA	Analysis	Moisture		1	111130	11/22/13 14:45	KMG	TAL CAN

Client Sample ID: CC-081129-111913-SM-049

Lab Sample ID: 240-31741-20

Date Collected: 11/19/13 14:50

Matrix: Solid

Date Received: 11/21/13 09:10

Percent Solids: 97.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111080	11/22/13 11:13	JS1	TAL CAN
Total/NA	Analysis	8082		1	111385	11/26/13 11:03	RSK	TAL CAN
Total/NA	Analysis	Moisture		1	111130	11/22/13 14:45	KMG	TAL CAN

Client Sample ID: W-081129-111913-SM-022

Lab Sample ID: 240-31741-25

Date Collected: 11/19/13 15:45

Matrix: Wipe

Date Received: 11/21/13 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111408	11/26/13 08:04	MPM	TAL CAN
Total/NA	Analysis	8082		10	112227	12/04/13 12:47	LSH	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Client Sample ID: W-081129-111913-SM-023

Lab Sample ID: 240-31741-26

Date Collected: 11/19/13 15:50

Matrix: Wipe

Date Received: 11/21/13 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111699	11/29/13 08:34	CSC	TAL CAN
Total/NA	Analysis	8082		1	112001	12/03/13 09:43	HMB	TAL CAN

Client Sample ID: W-081129-111913-SM-027

Lab Sample ID: 240-31741-27

Date Collected: 11/19/13 15:30

Matrix: Wipe

Date Received: 11/21/13 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111699	11/29/13 08:34	CSC	TAL CAN
Total/NA	Analysis	8082		5	112105	12/03/13 15:18	HMB	TAL CAN

Client Sample ID: W-081129-111913-SM-028

Lab Sample ID: 240-31741-28

Date Collected: 11/19/13 15:35

Matrix: Wipe

Date Received: 11/21/13 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			111699	11/29/13 08:34	CSC	TAL CAN
Total/NA	Analysis	8082		10	112105	12/03/13 15:33	HMB	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-31741-1

Laboratory: TestAmerica Canton

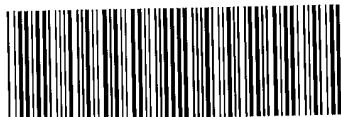
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14
Connecticut	State Program	1	PH-0590	12-31-13 *
Florida	NELAP	4	E87225	06-30-14
Georgia	State Program	4	N/A	06-30-14
Illinois	NELAP	5	200004	07-31-14 *
Kansas	NELAP	7	E-10336	01-31-14 *
Kentucky (UST)	State Program	4	58	06-30-14
L-A-B	DoD ELAP		L2315	07-18-16
Nevada	State Program	9	OH-000482008A	07-31-14
New Jersey	NELAP	2	OH001	06-30-14
New York	NELAP	2	10975	04-01-14
Ohio VAP	State Program	5	CL0024	10-31-15
Pennsylvania	NELAP	3	68-00340	08-31-14 *
Texas	NELAP	6		08-31-14 *
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-14
Washington	State Program	10	C971	01-12-14 *
West Virginia DEP	State Program	3	210	12-31-13 *
Wisconsin	State Program	5	999518190	08-31-14

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Canton

**CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS**



240-31741 Chain of Custody



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO.: **PL-08868**

PAGE **1** OF **2**

(See Reverse Side for Instructions)

1.8

Project No/ Phase/Task Code: 081129				Laboratory Name: TEST AMERICA				Lab Location: NORTH CANTON, OH.				SSOW ID: 081129																																																																																																																																																																																																																																																																																			
Project Name: HANGAR NO. 2				Lab Contact: DEWISE HICKLER				Lab Quote No:				Cooler No: 2																																																																																																																																																																																																																																																																																			
Project Location: WILLOW RUN AIRPORT				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)				Carrier: FEDEX																																																																																																																																																																																																																																																																																			
Chemistry Contact: RAWA FLEISCHER				<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>Unpreserved</th> <th>Hydrochloric Acid (HCl)</th> <th>Nitric Acid (HNO₃)</th> <th>Sulfuric Acid (H₂SO₄)</th> <th>Sodium Hydroxide (NaOH)</th> <th>Methanol/Water (Soil VOC)</th> <th>EnCores 3x5-g, 1x25-g</th> <th>Other:</th> <th>Total Containers/Sample</th> </tr> <tr> <td>Matrix Code (see back of COC)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				SAMPLE TYPE	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Matrix Code (see back of COC)										Airbill No: 8010 4751 8712																																																																																																																																																																																																																																																																			
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Sampler(s): BEN HOLLY, SATHAN MCCANN												Date Shipped: 11/20/13																																																																																																																																																																																																																																																																																			
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(C)</th> <th>Unpreserved</th> <th>Hydrochloric Acid (HCl)</th> <th>Nitric Acid (HNO₃)</th> <th>Sulfuric Acid (H₂SO₄)</th> <th>Sodium Hydroxide (NaOH)</th> <th>Methanol/Water (Soil VOC)</th> <th>EnCores 3x5-g, 1x25-g</th> <th>Other:</th> <th>Total Containers/Sample</th> <th>MS/MSD Request</th> <th>COMMENTS/ SPECIAL INSTRUCTIONS:</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CL-081129-111913-SM-001</td> <td>11/19/13</td> <td>9:30</td> <td>CC</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>CL-081129-111913-SM-002</td> <td>11/19/13</td> <td>9:35</td> <td>CC</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>CL-081129-111913-SM-003</td> <td>11/19/13</td> <td>9:40</td> <td>CC</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>CL-081129-111913-SM-004</td> <td></td> <td>9:50</td> <td>CC</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td></td> <td>-018</td> <td></td> <td>14:05</td> <td>CC</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td></td> <td>-019</td> <td></td> <td>14:10</td> <td>CC</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td></td> <td>-024</td> <td></td> <td>13:45</td> <td>CC</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td></td> <td>-025</td> <td></td> <td>13:50</td> <td>CC</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>9</td> <td>-030</td> <td></td> <td>10:15</td> <td>CC</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>10</td> <td>-031</td> <td></td> <td>11:05</td> <td>CC</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>11</td> <td>-032</td> <td></td> <td>11:10</td> <td>CC</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>12</td> <td>-033</td> <td></td> <td>11:45</td> <td>CC</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>13</td> <td>-042</td> <td></td> <td>10:25</td> <td>CC</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>14</td> <td>-043</td> <td></td> <td>10:30</td> <td>CC</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>15</td> <td>-044</td> <td></td> <td>11:25</td> <td>CC</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> </tr> </tbody> </table>				Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp. 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Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp. (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:																																																																																																																																																																																																																																																																															
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3	CL-081129-111913-SM-003	11/19/13	9:40	CC	G	1								1																																																																																																																																																																																																																																																																																	
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RELINQUISHED BY Ben Holly				COMPANY CRA				DATE 11/20/13				TIME 17:00				RECEIVED BY TA				COMPANY TA				DATE 11-20-13				TIME 9:00																																																																																																																																																																																																																																																																			
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THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution:

WHITE - Fully Executed Copy (CRA)

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampling Crew

CRA Form: COC-10A (20110804)

14 13 12 11 10 9 8 7 6 5 4 3 2 1



14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO.: PL-09827

PAGE 2 OF 2

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 081129						Laboratory Name: <i>TEST AMERICA</i>							Lab Location: <i>NORTH CANTON, OH.</i>					SSOW ID: 081129								
Project Name: <i>TANGAR NO. 2</i>						Lab Contact: <i>DENISE HEGGARE</i>							Lab Quote No:					Cooler No: 2								
Project Location: <i>WILLOW RUN AIRPARK</i>						SAMPLE TYPE			CONTAINER QUANTITY & PRESERVATION					ANALYSIS REQUESTED (See Back of COC for Definitions)					Carrier: <i>FED EX</i>							
Chemistry Contact: <i>RANA FLEISHER</i>																			Airbill No: <i>801047518712</i>							
Sampler(s): <i>BEN HOWE, STACUN MCCANN</i>																			Date Shipped: <i>11/20/13</i>							
PAGE 64 OF 65																										
TAT Required in business days (use separate COCs for different TATs): <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 1 Week <input checked="" type="checkbox"/> 2 Week <input type="checkbox"/> Other:									Total Number of Containers: <i>6</i>					Notes/ Special Requirements:												
All Samples in Cooler must be on COC																										
RELINQUISHED BY <i>Burr Huey</i>						COMPANY <i>CRA</i>			DATE <i>11/20/13</i>			TIME <i>17:00</i>			RECEIVED BY <i>[Signature]</i>			COMPANY <i>TA</i>			DATE <i>11-21-13</i>			TIME <i>910</i>		

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE — Fully Executed Copy (CRA)

YELLOW – Receiving Laboratory Copy

PINK — Shipper

GOLDENROD – Sampling Crew

CRA Form COC-10A (20110804)

TestAmerica Canton Sample Receipt Form/Narrative

Login #: 31741

Canton Facility

Client COA Site Name

Cooler unpacked by:

Cooler Received on 11-21-13 Opened on 11-21-13FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier OtherTestAmerica Cooler # Foam Box Client Cooler Box OtherPacking material used: Bubble Wrap Foam Plastic Bag None OtherCOOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A (CF +0 °C) Observed Cooler Temp. 1.8 °C Corrected Cooler Temp. 1.8 °C

IR GUN# 4 (CF -1 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

IR GUN# 5 (CF +1 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

IR GUN# 8 (CF +1 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

☐ See Multiple Cooler Form

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity

Yes No-Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA-Were custody seals on the bottle(s)? Yes No

3. Shippers' packing slip attached to the cooler(s)?

Yes No

4. Did custody papers accompany the sample(s)?

Yes No

5. Were the custody papers relinquished & signed in the appropriate place?

Yes No

6. Did all bottles arrive in good condition (Unbroken)?

Yes No

7. Could all bottle labels be reconciled with the COC?

Yes No

8. Were correct bottle(s) used for the test(s) indicated?

Yes No

9. Sufficient quantity received to perform indicated analyses?

Yes No

10. Were sample(s) at the correct pH upon receipt?

Yes No NA pH Strip Lot# HC391902

11. Were VOAs on the COC?

Yes No

12. Were air bubbles >6 mm in any VOA vials?

Yes No NA

13. Was a trip blank present in the cooler(s)?

Yes No

Contacted PM Date by via Verbal Voice Mail Other

Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container.

Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.

Time preserved: Preservative(s) added/Lot number(s):

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-33437-1

Client Project/Site: 81129, WCAA

For:

Conestoga-Rovers & Associates, Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Rawa Fleisher



Authorized for release by:

1/27/2014 2:33:00 PM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Job ID: 240-33437-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 81129, WCAA

Report Number: 240-33437-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 01/18/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 C.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples CC-081129-011714-EPM-009 (240-33437-9), CC-081129-011714-EPM-010 (240-33437-10), CC-081129-011714-EPM-011 (240-33437-11), CC-081129-011714-EPM-012 (240-33437-12), CC-081129-011714-EPM-013 (240-33437-13), CC-081129-011714-EPM-014 (240-33437-14), CC-081129-011714-EPM-015 (240-33437-15), CC-081129-011714-EPM-016 (240-33437-16), CC-081129-011714-EPM-017 (240-33437-17), CC-081129-011714-EPM-018 (240-33437-18), CC-081129-011714-EPM-019 (240-33437-19), CC-081129-011714-EPM-020 (240-33437-20) and CC-081129-011714-EPM-021 (240-33437-21) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 01/22/2014 and 01/23/2014 and analyzed on 01/24/2014 and 01/27/2014.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Aroclor-1260 failed the recovery criteria low for the MS of sample CC-081129-011714-EPM-021MS (240-33437-21) in batch 240-117548.

Aroclor-1260 failed the recovery criteria high for the MSD of sample CC-081129-011714-EPM-021MSD (240-33437-21) in batch 240-117548.

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Job ID: 240-33437-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Samples CC-081129-011714-EPM-011 (240-33437-11)[2X], CC-081129-011714-EPM-012 (240-33437-12)[10X], CC-081129-011714-EPM-013 (240-33437-13)[5X], CC-081129-011714-EPM-014 (240-33437-14)[10X], CC-081129-011714-EPM-015 (240-33437-15)[10X], CC-081129-011714-EPM-016 (240-33437-16)[5000X], CC-081129-011714-EPM-017 (240-33437-17)[200X], CC-081129-011714-EPM-018 (240-33437-18)[20X], CC-081129-011714-EPM-019 (240-33437-19)[10X], CC-081129-011714-EPM-020 (240-33437-20)[50X] and CC-081129-011714-EPM-021 (240-33437-21)[5000X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the PCBs analysis.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples W-081129-011714-EPM-001 (240-33437-1), W-081129-011714-EPM-002 (240-33437-2), W-081129-011714-EPM-003 (240-33437-3), W-081129-011714-EPM-004 (240-33437-4), W-081129-011714-EPM-005 (240-33437-5), W-081129-011714-EPM-006 (240-33437-6), W-081129-011714-EPM-007 (240-33437-7) and W-081129-011714-EPM-008 (240-33437-8) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 01/21/2014 and analyzed on 01/23/2014 and 01/24/2014.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Samples W-081129-011714-EPM-001 (240-33437-1)[5X] and W-081129-011714-EPM-002 (240-33437-2)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-33437-1	W-081129-011714-EPM-001	Wipe	01/17/14 10:05	01/18/14 09:50
240-33437-2	W-081129-011714-EPM-002	Wipe	01/17/14 10:10	01/18/14 09:50
240-33437-3	W-081129-011714-EPM-003	Wipe	01/17/14 10:15	01/18/14 09:50
240-33437-4	W-081129-011714-EPM-004	Wipe	01/17/14 10:20	01/18/14 09:50
240-33437-5	W-081129-011714-EPM-005	Wipe	01/17/14 10:40	01/18/14 09:50
240-33437-6	W-081129-011714-EPM-006	Wipe	01/17/14 10:45	01/18/14 09:50
240-33437-7	W-081129-011714-EPM-007	Wipe	01/17/14 10:50	01/18/14 09:50
240-33437-8	W-081129-011714-EPM-008	Wipe	01/17/14 10:55	01/18/14 09:50
240-33437-9	CC-081129-011714-EPM-009	Solid	01/17/14 11:15	01/18/14 09:50
240-33437-10	CC-081129-011714-EPM-010	Solid	01/17/14 11:20	01/18/14 09:50
240-33437-11	CC-081129-011714-EPM-011	Solid	01/17/14 11:25	01/18/14 09:50
240-33437-12	CC-081129-011714-EPM-012	Solid	01/17/14 11:45	01/18/14 09:50
240-33437-13	CC-081129-011714-EPM-013	Solid	01/17/14 11:50	01/18/14 09:50
240-33437-14	CC-081129-011714-EPM-014	Solid	01/17/14 11:55	01/18/14 09:50
240-33437-15	CC-081129-011714-EPM-015	Solid	01/17/14 12:00	01/18/14 09:50
240-33437-16	CC-081129-011714-EPM-016	Solid	01/17/14 12:30	01/18/14 09:50
240-33437-17	CC-081129-011714-EPM-017	Solid	01/17/14 12:35	01/18/14 09:50
240-33437-18	CC-081129-011714-EPM-018	Solid	01/17/14 12:40	01/18/14 09:50
240-33437-19	CC-081129-011714-EPM-019	Solid	01/17/14 12:45	01/18/14 09:50
240-33437-20	CC-081129-011714-EPM-020	Solid	01/17/14 12:50	01/18/14 09:50
240-33437-21	CC-081129-011714-EPM-021	Solid	01/17/14 12:55	01/18/14 09:50

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Client Sample ID: W-081129-011714-EPM-001

Lab Sample ID: 240-33437-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	20		10	ug/Wipe	5		8082	Total/NA

Client Sample ID: W-081129-011714-EPM-002

Lab Sample ID: 240-33437-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	26		10	ug/Wipe	5		8082	Total/NA

Client Sample ID: W-081129-011714-EPM-003

Lab Sample ID: 240-33437-3

No Detections.

Client Sample ID: W-081129-011714-EPM-004

Lab Sample ID: 240-33437-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	7.8		2.0	ug/Wipe	1		8082	Total/NA

Client Sample ID: W-081129-011714-EPM-005

Lab Sample ID: 240-33437-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	4.8		2.0	ug/Wipe	1		8082	Total/NA

Client Sample ID: W-081129-011714-EPM-006

Lab Sample ID: 240-33437-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	2.6		2.0	ug/Wipe	1		8082	Total/NA

Client Sample ID: W-081129-011714-EPM-007

Lab Sample ID: 240-33437-7

No Detections.

Client Sample ID: W-081129-011714-EPM-008

Lab Sample ID: 240-33437-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	3.2		2.0	ug/Wipe	1		8082	Total/NA

Client Sample ID: CC-081129-011714-EPM-009

Lab Sample ID: 240-33437-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	620		200	ug/Kg	1	✱	8082	Total/NA

Client Sample ID: CC-081129-011714-EPM-010

Lab Sample ID: 240-33437-10

No Detections.

Client Sample ID: CC-081129-011714-EPM-011

Lab Sample ID: 240-33437-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	1700		400	ug/Kg	2	✱	8082	Total/NA

Client Sample ID: CC-081129-011714-EPM-012

Lab Sample ID: 240-33437-12

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Client Sample ID: CC-081129-011714-EPM-012 (Continued)

Lab Sample ID: 240-33437-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	5200		2000	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: CC-081129-011714-EPM-013

Lab Sample ID: 240-33437-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	4000		990	ug/Kg	5	☼	8082	Total/NA

Client Sample ID: CC-081129-011714-EPM-014

Lab Sample ID: 240-33437-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	6500		2000	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: CC-081129-011714-EPM-015

Lab Sample ID: 240-33437-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	6500		2000	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: CC-081129-011714-EPM-016

Lab Sample ID: 240-33437-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	3200000		1000000	ug/Kg	5000	☼	8082	Total/NA

Client Sample ID: CC-081129-011714-EPM-017

Lab Sample ID: 240-33437-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	100000		40000	ug/Kg	200	☼	8082	Total/NA

Client Sample ID: CC-081129-011714-EPM-018

Lab Sample ID: 240-33437-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	16000		4100	ug/Kg	20	☼	8082	Total/NA

Client Sample ID: CC-081129-011714-EPM-019

Lab Sample ID: 240-33437-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	13000		2000	ug/Kg	10	☼	8082	Total/NA

Client Sample ID: CC-081129-011714-EPM-020

Lab Sample ID: 240-33437-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	32000		10000	ug/Kg	50	☼	8082	Total/NA

Client Sample ID: CC-081129-011714-EPM-021

Lab Sample ID: 240-33437-21

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	3000000		990000	ug/Kg	5000	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: W-081129-011714-EPM-001

Date Collected: 01/17/14 10:05

Date Received: 01/18/14 09:50

Lab Sample ID: 240-33437-1

Matrix: Wipe

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	10	U	10	ug/Wipe		01/21/14 08:36	01/24/14 11:30	5
Aroclor-1221	10	U	10	ug/Wipe		01/21/14 08:36	01/24/14 11:30	5
Aroclor-1232	10	U	10	ug/Wipe		01/21/14 08:36	01/24/14 11:30	5
Aroclor-1242	10	U	10	ug/Wipe		01/21/14 08:36	01/24/14 11:30	5
Aroclor-1248	10	U	10	ug/Wipe		01/21/14 08:36	01/24/14 11:30	5
Aroclor-1254	10	U	10	ug/Wipe		01/21/14 08:36	01/24/14 11:30	5
Aroclor-1260	20		10	ug/Wipe		01/21/14 08:36	01/24/14 11:30	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		52 - 162	01/21/14 08:36	01/24/14 11:30	5
DCB Decachlorobiphenyl	78		35 - 162	01/21/14 08:36	01/24/14 11:30	5

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: W-081129-011714-EPM-002

Date Collected: 01/17/14 10:10

Date Received: 01/18/14 09:50

Lab Sample ID: 240-33437-2

Matrix: Wipe

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	10	U	10	ug/Wipe		01/21/14 08:36	01/24/14 11:45	5
Aroclor-1221	10	U	10	ug/Wipe		01/21/14 08:36	01/24/14 11:45	5
Aroclor-1232	10	U	10	ug/Wipe		01/21/14 08:36	01/24/14 11:45	5
Aroclor-1242	10	U	10	ug/Wipe		01/21/14 08:36	01/24/14 11:45	5
Aroclor-1248	10	U	10	ug/Wipe		01/21/14 08:36	01/24/14 11:45	5
Aroclor-1254	10	U	10	ug/Wipe		01/21/14 08:36	01/24/14 11:45	5
Aroclor-1260	26		10	ug/Wipe		01/21/14 08:36	01/24/14 11:45	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		52 - 162	01/21/14 08:36	01/24/14 11:45	5
DCB Decachlorobiphenyl	87		35 - 162	01/21/14 08:36	01/24/14 11:45	5

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: W-081129-011714-EPM-003

Date Collected: 01/17/14 10:15

Date Received: 01/18/14 09:50

Lab Sample ID: 240-33437-3

Matrix: Wipe

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 05:47	1
Aroclor-1221	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 05:47	1
Aroclor-1232	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 05:47	1
Aroclor-1242	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 05:47	1
Aroclor-1248	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 05:47	1
Aroclor-1254	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 05:47	1
Aroclor-1260	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 05:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		52 - 162	01/21/14 08:36	01/23/14 05:47	1
DCB Decachlorobiphenyl	69		35 - 162	01/21/14 08:36	01/23/14 05:47	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: W-081129-011714-EPM-004

Lab Sample ID: 240-33437-4

Date Collected: 01/17/14 10:20

Matrix: Wipe

Date Received: 01/18/14 09:50

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:03	1
Aroclor-1221	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:03	1
Aroclor-1232	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:03	1
Aroclor-1242	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:03	1
Aroclor-1248	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:03	1
Aroclor-1254	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:03	1
Aroclor-1260	7.8		2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		52 - 162	01/21/14 08:36	01/23/14 06:03	1
DCB Decachlorobiphenyl	67		35 - 162	01/21/14 08:36	01/23/14 06:03	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: W-081129-011714-EPM-005

Lab Sample ID: 240-33437-5

Date Collected: 01/17/14 10:40

Matrix: Wipe

Date Received: 01/18/14 09:50

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:19	1
Aroclor-1221	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:19	1
Aroclor-1232	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:19	1
Aroclor-1242	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:19	1
Aroclor-1248	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:19	1
Aroclor-1254	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:19	1
Aroclor-1260	4.8		2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		52 - 162	01/21/14 08:36	01/23/14 06:19	1
DCB Decachlorobiphenyl	65		35 - 162	01/21/14 08:36	01/23/14 06:19	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: W-081129-011714-EPM-006

Lab Sample ID: 240-33437-6

Date Collected: 01/17/14 10:45

Matrix: Wipe

Date Received: 01/18/14 09:50

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:34	1
Aroclor-1221	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:34	1
Aroclor-1232	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:34	1
Aroclor-1242	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:34	1
Aroclor-1248	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:34	1
Aroclor-1254	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:34	1
Aroclor-1260	2.6		2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		52 - 162	01/21/14 08:36	01/23/14 06:34	1
DCB Decachlorobiphenyl	66		35 - 162	01/21/14 08:36	01/23/14 06:34	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: W-081129-011714-EPM-007

Lab Sample ID: 240-33437-7

Date Collected: 01/17/14 10:50

Matrix: Wipe

Date Received: 01/18/14 09:50

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:50	1
Aroclor-1221	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:50	1
Aroclor-1232	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:50	1
Aroclor-1242	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:50	1
Aroclor-1248	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:50	1
Aroclor-1254	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:50	1
Aroclor-1260	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 06:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		52 - 162	01/21/14 08:36	01/23/14 06:50	1
DCB Decachlorobiphenyl	69		35 - 162	01/21/14 08:36	01/23/14 06:50	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: W-081129-011714-EPM-008

Lab Sample ID: 240-33437-8

Date Collected: 01/17/14 10:55

Matrix: Wipe

Date Received: 01/18/14 09:50

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 07:06	1
Aroclor-1221	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 07:06	1
Aroclor-1232	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 07:06	1
Aroclor-1242	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 07:06	1
Aroclor-1248	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 07:06	1
Aroclor-1254	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 07:06	1
Aroclor-1260	3.2		2.0	ug/Wipe		01/21/14 08:36	01/23/14 07:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		52 - 162	01/21/14 08:36	01/23/14 07:06	1
DCB Decachlorobiphenyl	71		35 - 162	01/21/14 08:36	01/23/14 07:06	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-011714-EPM-009

Date Collected: 01/17/14 11:15

Date Received: 01/18/14 09:50

Lab Sample ID: 240-33437-9

Matrix: Solid

Percent Solids: 97.1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	ug/Kg	☼	01/22/14 09:01	01/24/14 06:23	1
Aroclor-1221	200	U	200	ug/Kg	☼	01/22/14 09:01	01/24/14 06:23	1
Aroclor-1232	200	U	200	ug/Kg	☼	01/22/14 09:01	01/24/14 06:23	1
Aroclor-1242	200	U	200	ug/Kg	☼	01/22/14 09:01	01/24/14 06:23	1
Aroclor-1248	200	U	200	ug/Kg	☼	01/22/14 09:01	01/24/14 06:23	1
Aroclor-1254	200	U	200	ug/Kg	☼	01/22/14 09:01	01/24/14 06:23	1
Aroclor-1260	620		200	ug/Kg	☼	01/22/14 09:01	01/24/14 06:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		29 - 151	01/22/14 09:01	01/24/14 06:23	1
DCB Decachlorobiphenyl	72		14 - 163	01/22/14 09:01	01/24/14 06:23	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-011714-EPM-010

Lab Sample ID: 240-33437-10

Date Collected: 01/17/14 11:20

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 97.3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	200	U	200	ug/Kg	☼	01/22/14 09:01	01/24/14 06:38	1
Aroclor-1221	200	U	200	ug/Kg	☼	01/22/14 09:01	01/24/14 06:38	1
Aroclor-1232	200	U	200	ug/Kg	☼	01/22/14 09:01	01/24/14 06:38	1
Aroclor-1242	200	U	200	ug/Kg	☼	01/22/14 09:01	01/24/14 06:38	1
Aroclor-1248	200	U	200	ug/Kg	☼	01/22/14 09:01	01/24/14 06:38	1
Aroclor-1254	200	U	200	ug/Kg	☼	01/22/14 09:01	01/24/14 06:38	1
Aroclor-1260	200	U	200	ug/Kg	☼	01/22/14 09:01	01/24/14 06:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		29 - 151	01/22/14 09:01	01/24/14 06:38	1
DCB Decachlorobiphenyl	75		14 - 163	01/22/14 09:01	01/24/14 06:38	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-011714-EPM-011

Lab Sample ID: 240-33437-11

Date Collected: 01/17/14 11:25

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 98.6

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	400	U	400	ug/Kg	☼	01/23/14 09:40	01/27/14 02:00	2
Aroclor-1221	400	U	400	ug/Kg	☼	01/23/14 09:40	01/27/14 02:00	2
Aroclor-1232	400	U	400	ug/Kg	☼	01/23/14 09:40	01/27/14 02:00	2
Aroclor-1242	400	U	400	ug/Kg	☼	01/23/14 09:40	01/27/14 02:00	2
Aroclor-1248	400	U	400	ug/Kg	☼	01/23/14 09:40	01/27/14 02:00	2
Aroclor-1254	400	U	400	ug/Kg	☼	01/23/14 09:40	01/27/14 02:00	2
Aroclor-1260	1700		400	ug/Kg	☼	01/23/14 09:40	01/27/14 02:00	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	103		29 - 151	01/23/14 09:40	01/27/14 02:00	2
DCB Decachlorobiphenyl	75		14 - 163	01/23/14 09:40	01/27/14 02:00	2

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-011714-EPM-012

Lab Sample ID: 240-33437-12

Date Collected: 01/17/14 11:45

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 99.4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 06:53	10
Aroclor-1221	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 06:53	10
Aroclor-1232	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 06:53	10
Aroclor-1242	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 06:53	10
Aroclor-1248	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 06:53	10
Aroclor-1254	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 06:53	10
Aroclor-1260	5200		2000	ug/Kg	☼	01/22/14 09:01	01/24/14 06:53	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	108		29 - 151	01/22/14 09:01	01/24/14 06:53	10
DCB Decachlorobiphenyl	100		14 - 163	01/22/14 09:01	01/24/14 06:53	10

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-011714-EPM-013

Lab Sample ID: 240-33437-13

Date Collected: 01/17/14 11:50

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 98.9

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	990	U	990	ug/Kg	☼	01/22/14 09:01	01/24/14 07:08	5
Aroclor-1221	990	U	990	ug/Kg	☼	01/22/14 09:01	01/24/14 07:08	5
Aroclor-1232	990	U	990	ug/Kg	☼	01/22/14 09:01	01/24/14 07:08	5
Aroclor-1242	990	U	990	ug/Kg	☼	01/22/14 09:01	01/24/14 07:08	5
Aroclor-1248	990	U	990	ug/Kg	☼	01/22/14 09:01	01/24/14 07:08	5
Aroclor-1254	990	U	990	ug/Kg	☼	01/22/14 09:01	01/24/14 07:08	5
Aroclor-1260	4000		990	ug/Kg	☼	01/22/14 09:01	01/24/14 07:08	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		29 - 151	01/22/14 09:01	01/24/14 07:08	5
DCB Decachlorobiphenyl	69		14 - 163	01/22/14 09:01	01/24/14 07:08	5

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-011714-EPM-014

Date Collected: 01/17/14 11:55

Date Received: 01/18/14 09:50

Lab Sample ID: 240-33437-14

Matrix: Solid

Percent Solids: 98.9

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 07:23	10
Aroclor-1221	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 07:23	10
Aroclor-1232	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 07:23	10
Aroclor-1242	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 07:23	10
Aroclor-1248	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 07:23	10
Aroclor-1254	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 07:23	10
Aroclor-1260	6500		2000	ug/Kg	☼	01/22/14 09:01	01/24/14 07:23	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	103		29 - 151	01/22/14 09:01	01/24/14 07:23	10
DCB Decachlorobiphenyl	0	X	14 - 163	01/22/14 09:01	01/24/14 07:23	10

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-011714-EPM-015

Lab Sample ID: 240-33437-15

Date Collected: 01/17/14 12:00

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 99.2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:08	10
Aroclor-1221	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:08	10
Aroclor-1232	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:08	10
Aroclor-1242	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:08	10
Aroclor-1248	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:08	10
Aroclor-1254	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:08	10
Aroclor-1260	6500		2000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:08	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	101		29 - 151	01/22/14 09:01	01/24/14 08:08	10
DCB Decachlorobiphenyl	102		14 - 163	01/22/14 09:01	01/24/14 08:08	10

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-011714-EPM-016

Date Collected: 01/17/14 12:30

Date Received: 01/18/14 09:50

Lab Sample ID: 240-33437-16

Matrix: Solid

Percent Solids: 96.6

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000000	U	1000000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:23	5000
Aroclor-1221	1000000	U	1000000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:23	5000
Aroclor-1232	1000000	U	1000000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:23	5000
Aroclor-1242	1000000	U	1000000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:23	5000
Aroclor-1248	1000000	U	1000000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:23	5000
Aroclor-1254	1000000	U	1000000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:23	5000
Aroclor-1260	3200000		1000000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:23	5000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	X	29 - 151	01/22/14 09:01	01/24/14 08:23	5000
DCB Decachlorobiphenyl	0	X	14 - 163	01/22/14 09:01	01/24/14 08:23	5000

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-011714-EPM-017

Lab Sample ID: 240-33437-17

Date Collected: 01/17/14 12:35

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 99.1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	40000	U	40000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:38	200
Aroclor-1221	40000	U	40000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:38	200
Aroclor-1232	40000	U	40000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:38	200
Aroclor-1242	40000	U	40000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:38	200
Aroclor-1248	40000	U	40000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:38	200
Aroclor-1254	40000	U	40000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:38	200
Aroclor-1260	100000		40000	ug/Kg	☼	01/22/14 09:01	01/24/14 08:38	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	X	29 - 151	01/22/14 09:01	01/24/14 08:38	200
DCB Decachlorobiphenyl	0	X	14 - 163	01/22/14 09:01	01/24/14 08:38	200

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-011714-EPM-018

Date Collected: 01/17/14 12:40

Date Received: 01/18/14 09:50

Lab Sample ID: 240-33437-18

Matrix: Solid

Percent Solids: 97.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	4100	U	4100	ug/Kg	☼	01/22/14 09:01	01/24/14 08:53	20
Aroclor-1221	4100	U	4100	ug/Kg	☼	01/22/14 09:01	01/24/14 08:53	20
Aroclor-1232	4100	U	4100	ug/Kg	☼	01/22/14 09:01	01/24/14 08:53	20
Aroclor-1242	4100	U	4100	ug/Kg	☼	01/22/14 09:01	01/24/14 08:53	20
Aroclor-1248	4100	U	4100	ug/Kg	☼	01/22/14 09:01	01/24/14 08:53	20
Aroclor-1254	4100	U	4100	ug/Kg	☼	01/22/14 09:01	01/24/14 08:53	20
Aroclor-1260	16000		4100	ug/Kg	☼	01/22/14 09:01	01/24/14 08:53	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	X	29 - 151	01/22/14 09:01	01/24/14 08:53	20
DCB Decachlorobiphenyl	0	X	14 - 163	01/22/14 09:01	01/24/14 08:53	20

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-011714-EPM-019

Lab Sample ID: 240-33437-19

Date Collected: 01/17/14 12:45

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 98.9

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:08	10
Aroclor-1221	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:08	10
Aroclor-1232	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:08	10
Aroclor-1242	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:08	10
Aroclor-1248	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:08	10
Aroclor-1254	2000	U	2000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:08	10
Aroclor-1260	13000		2000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:08	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	X	29 - 151	01/22/14 09:01	01/24/14 09:08	10
DCB Decachlorobiphenyl	103		14 - 163	01/22/14 09:01	01/24/14 09:08	10

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-011714-EPM-020

Lab Sample ID: 240-33437-20

Date Collected: 01/17/14 12:50

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 99.0

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	10000	U	10000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:23	50
Aroclor-1221	10000	U	10000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:23	50
Aroclor-1232	10000	U	10000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:23	50
Aroclor-1242	10000	U	10000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:23	50
Aroclor-1248	10000	U	10000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:23	50
Aroclor-1254	10000	U	10000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:23	50
Aroclor-1260	32000		10000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:23	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	X	29 - 151	01/22/14 09:01	01/24/14 09:23	50
DCB Decachlorobiphenyl	0	X	14 - 163	01/22/14 09:01	01/24/14 09:23	50

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-011714-EPM-021

Date Collected: 01/17/14 12:55

Date Received: 01/18/14 09:50

Lab Sample ID: 240-33437-21

Matrix: Solid

Percent Solids: 98.6

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	990000	U	990000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:38	5000
Aroclor-1221	990000	U	990000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:38	5000
Aroclor-1232	990000	U	990000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:38	5000
Aroclor-1242	990000	U	990000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:38	5000
Aroclor-1248	990000	U	990000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:38	5000
Aroclor-1254	990000	U	990000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:38	5000
Aroclor-1260	3000000		990000	ug/Kg	☼	01/22/14 09:01	01/24/14 09:38	5000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	X	29 - 151	01/22/14 09:01	01/24/14 09:38	5000
DCB Decachlorobiphenyl	0	X	14 - 163	01/22/14 09:01	01/24/14 09:38	5000

TestAmerica Canton

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

GC Semi VOA

Prep Batch: 117185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-33437-1	W-081129-011714-EPM-001	Total/NA	Wipe	3540C	
240-33437-2	W-081129-011714-EPM-002	Total/NA	Wipe	3540C	
240-33437-3	W-081129-011714-EPM-003	Total/NA	Wipe	3540C	
240-33437-4	W-081129-011714-EPM-004	Total/NA	Wipe	3540C	
240-33437-5	W-081129-011714-EPM-005	Total/NA	Wipe	3540C	
240-33437-6	W-081129-011714-EPM-006	Total/NA	Wipe	3540C	
240-33437-7	W-081129-011714-EPM-007	Total/NA	Wipe	3540C	
240-33437-8	W-081129-011714-EPM-008	Total/NA	Wipe	3540C	
LCS 240-117185/10-A	Lab Control Sample	Total/NA	Wipe	3540C	
MB 240-117185/9-A	Method Blank	Total/NA	Wipe	3540C	

Prep Batch: 117330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-33437-9	CC-081129-011714-EPM-009	Total/NA	Solid	3540C	
240-33437-10	CC-081129-011714-EPM-010	Total/NA	Solid	3540C	
240-33437-12	CC-081129-011714-EPM-012	Total/NA	Solid	3540C	
240-33437-13	CC-081129-011714-EPM-013	Total/NA	Solid	3540C	
240-33437-14	CC-081129-011714-EPM-014	Total/NA	Solid	3540C	
240-33437-15	CC-081129-011714-EPM-015	Total/NA	Solid	3540C	
240-33437-16	CC-081129-011714-EPM-016	Total/NA	Solid	3540C	
240-33437-17	CC-081129-011714-EPM-017	Total/NA	Solid	3540C	
240-33437-18	CC-081129-011714-EPM-018	Total/NA	Solid	3540C	
240-33437-19	CC-081129-011714-EPM-019	Total/NA	Solid	3540C	
240-33437-20	CC-081129-011714-EPM-020	Total/NA	Solid	3540C	
240-33437-21	CC-081129-011714-EPM-021	Total/NA	Solid	3540C	
240-33437-21 MS	CC-081129-011714-EPM-021	Total/NA	Solid	3540C	
240-33437-21 MSD	CC-081129-011714-EPM-021	Total/NA	Solid	3540C	
LCS 240-117330/23-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-117330/22-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 117428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-33437-3	W-081129-011714-EPM-003	Total/NA	Wipe	8082	117185
240-33437-4	W-081129-011714-EPM-004	Total/NA	Wipe	8082	117185
240-33437-5	W-081129-011714-EPM-005	Total/NA	Wipe	8082	117185
240-33437-6	W-081129-011714-EPM-006	Total/NA	Wipe	8082	117185
240-33437-7	W-081129-011714-EPM-007	Total/NA	Wipe	8082	117185
240-33437-8	W-081129-011714-EPM-008	Total/NA	Wipe	8082	117185
LCS 240-117185/10-A	Lab Control Sample	Total/NA	Wipe	8082	117185
MB 240-117185/9-A	Method Blank	Total/NA	Wipe	8082	117185

Prep Batch: 117468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-33437-11	CC-081129-011714-EPM-011	Total/NA	Solid	3540C	
LCS 240-117468/16-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-117468/15-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 117548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-33437-9	CC-081129-011714-EPM-009	Total/NA	Solid	8082	117330
240-33437-10	CC-081129-011714-EPM-010	Total/NA	Solid	8082	117330

TestAmerica Canton

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

GC Semi VOA (Continued)

Analysis Batch: 117548 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-33437-12	CC-081129-011714-EPM-012	Total/NA	Solid	8082	117330
240-33437-13	CC-081129-011714-EPM-013	Total/NA	Solid	8082	117330
240-33437-14	CC-081129-011714-EPM-014	Total/NA	Solid	8082	117330
240-33437-15	CC-081129-011714-EPM-015	Total/NA	Solid	8082	117330
240-33437-16	CC-081129-011714-EPM-016	Total/NA	Solid	8082	117330
240-33437-17	CC-081129-011714-EPM-017	Total/NA	Solid	8082	117330
240-33437-18	CC-081129-011714-EPM-018	Total/NA	Solid	8082	117330
240-33437-19	CC-081129-011714-EPM-019	Total/NA	Solid	8082	117330
240-33437-20	CC-081129-011714-EPM-020	Total/NA	Solid	8082	117330
240-33437-21	CC-081129-011714-EPM-021	Total/NA	Solid	8082	117330
240-33437-21 MS	CC-081129-011714-EPM-021	Total/NA	Solid	8082	117330
240-33437-21 MSD	CC-081129-011714-EPM-021	Total/NA	Solid	8082	117330
LCS 240-117330/23-A	Lab Control Sample	Total/NA	Solid	8082	117330
MB 240-117330/22-A	Method Blank	Total/NA	Solid	8082	117330

Analysis Batch: 117586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-33437-1	W-081129-011714-EPM-001	Total/NA	Wipe	8082	117185
240-33437-2	W-081129-011714-EPM-002	Total/NA	Wipe	8082	117185

Analysis Batch: 117691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-33437-11	CC-081129-011714-EPM-011	Total/NA	Solid	8082	117468
LCS 240-117468/16-A	Lab Control Sample	Total/NA	Solid	8082	117468
MB 240-117468/15-A	Method Blank	Total/NA	Solid	8082	117468

General Chemistry

Analysis Batch: 117131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-33437-9	CC-081129-011714-EPM-009	Total/NA	Solid	Moisture	
240-33437-10	CC-081129-011714-EPM-010	Total/NA	Solid	Moisture	
240-33437-11	CC-081129-011714-EPM-011	Total/NA	Solid	Moisture	
240-33437-12	CC-081129-011714-EPM-012	Total/NA	Solid	Moisture	
240-33437-13	CC-081129-011714-EPM-013	Total/NA	Solid	Moisture	
240-33437-13 DU	CC-081129-011714-EPM-013	Total/NA	Solid	Moisture	
240-33437-14	CC-081129-011714-EPM-014	Total/NA	Solid	Moisture	
240-33437-15	CC-081129-011714-EPM-015	Total/NA	Solid	Moisture	
240-33437-16	CC-081129-011714-EPM-016	Total/NA	Solid	Moisture	
240-33437-17	CC-081129-011714-EPM-017	Total/NA	Solid	Moisture	
240-33437-18	CC-081129-011714-EPM-018	Total/NA	Solid	Moisture	
240-33437-19	CC-081129-011714-EPM-019	Total/NA	Solid	Moisture	
240-33437-20	CC-081129-011714-EPM-020	Total/NA	Solid	Moisture	
240-33437-21	CC-081129-011714-EPM-021	Total/NA	Solid	Moisture	

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-117185/9-A

Matrix: Wipe

Analysis Batch: 117428

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117185

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 07:21	1
Aroclor-1221	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 07:21	1
Aroclor-1232	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 07:21	1
Aroclor-1242	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 07:21	1
Aroclor-1248	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 07:21	1
Aroclor-1254	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 07:21	1
Aroclor-1260	2.0	U	2.0	ug/Wipe		01/21/14 08:36	01/23/14 07:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		52 - 162	01/21/14 08:36	01/23/14 07:21	1
DCB Decachlorobiphenyl	73		35 - 162	01/21/14 08:36	01/23/14 07:21	1

Lab Sample ID: LCS 240-117185/10-A

Matrix: Wipe

Analysis Batch: 117428

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117185

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	10.0	7.26		ug/Wipe		73	56 - 160
Aroclor-1260	10.0	7.45		ug/Wipe		74	60 - 151

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	80		52 - 162
DCB Decachlorobiphenyl	88		35 - 162

Lab Sample ID: MB 240-117330/22-A

Matrix: Solid

Analysis Batch: 117548

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117330

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	33	U	33	ug/Kg		01/22/14 09:01	01/24/14 07:38	1
Aroclor-1221	33	U	33	ug/Kg		01/22/14 09:01	01/24/14 07:38	1
Aroclor-1232	33	U	33	ug/Kg		01/22/14 09:01	01/24/14 07:38	1
Aroclor-1242	33	U	33	ug/Kg		01/22/14 09:01	01/24/14 07:38	1
Aroclor-1248	33	U	33	ug/Kg		01/22/14 09:01	01/24/14 07:38	1
Aroclor-1254	33	U	33	ug/Kg		01/22/14 09:01	01/24/14 07:38	1
Aroclor-1260	33	U	33	ug/Kg		01/22/14 09:01	01/24/14 07:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		29 - 151	01/22/14 09:01	01/24/14 07:38	1
DCB Decachlorobiphenyl	81		14 - 163	01/22/14 09:01	01/24/14 07:38	1

Lab Sample ID: LCS 240-117330/23-A

Matrix: Solid

Analysis Batch: 117548

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117330

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	333	247		ug/Kg		74	62 - 120

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-117330/23-A

Matrix: Solid

Analysis Batch: 117548

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117330

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1260	333	245		ug/Kg		74	56 - 122
Surrogate	%Recovery	LCS Qualifier	Limits				
Tetrachloro-m-xylene	81		29 - 151				
DCB Decachlorobiphenyl	78		14 - 163				

Lab Sample ID: 240-33437-21 MS

Matrix: Solid

Analysis Batch: 117548

Client Sample ID: CC-081129-011714-EPM-021

Prep Type: Total/NA

Prep Batch: 117330

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	990000	U	2000	990000	U	ug/Kg	☼	NC	22 - 157
Aroclor-1260	3000000		2000	2980000	4	ug/Kg	☼	-985	13 - 161
Surrogate	%Recovery	MS Qualifier	Limits						
Tetrachloro-m-xylene	0	X	29 - 151						
DCB Decachlorobiphenyl	0	X	14 - 163						

Lab Sample ID: 240-33437-21 MSD

Matrix: Solid

Analysis Batch: 117548

Client Sample ID: CC-081129-011714-EPM-021

Prep Type: Total/NA

Prep Batch: 117330

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	990000	U	2030	1000000	U	ug/Kg	☼	NC	22 - 157	NC	30
Aroclor-1260	3000000		2030	3170000	4	ug/Kg	☼	8843	13 - 161	6	30
Surrogate	%Recovery	MSD Qualifier	Limits								
Tetrachloro-m-xylene	0	X	29 - 151								
DCB Decachlorobiphenyl	0	X	14 - 163								

Lab Sample ID: MB 240-117468/15-A

Matrix: Solid

Analysis Batch: 117691

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117468

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	33	U	33	ug/Kg		01/23/14 09:40	01/27/14 00:44	1
Aroclor-1221	33	U	33	ug/Kg		01/23/14 09:40	01/27/14 00:44	1
Aroclor-1232	33	U	33	ug/Kg		01/23/14 09:40	01/27/14 00:44	1
Aroclor-1242	33	U	33	ug/Kg		01/23/14 09:40	01/27/14 00:44	1
Aroclor-1248	33	U	33	ug/Kg		01/23/14 09:40	01/27/14 00:44	1
Aroclor-1254	33	U	33	ug/Kg		01/23/14 09:40	01/27/14 00:44	1
Aroclor-1260	33	U	33	ug/Kg		01/23/14 09:40	01/27/14 00:44	1
Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
Tetrachloro-m-xylene	88		29 - 151	01/23/14 09:40	01/27/14 00:44	1		
DCB Decachlorobiphenyl	65		14 - 163	01/23/14 09:40	01/27/14 00:44	1		

TestAmerica Canton

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-117468/16-A

Matrix: Solid

Analysis Batch: 117691

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117468

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	333	233		ug/Kg		70	62 - 120
Aroclor-1260	333	237		ug/Kg		71	56 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	76		29 - 151
DCB Decachlorobiphenyl	71		14 - 163

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX2 (29-151)	DCB2 (14-163)
240-33437-9	CC-081129-011714-EPM-009	78	72
240-33437-10	CC-081129-011714-EPM-010	80	75
240-33437-11	CC-081129-011714-EPM-011	103	75
240-33437-12	CC-081129-011714-EPM-012	108	100
240-33437-13	CC-081129-011714-EPM-013	72	69
240-33437-14	CC-081129-011714-EPM-014	103	0 X
240-33437-15	CC-081129-011714-EPM-015	101	102
240-33437-16	CC-081129-011714-EPM-016	0 X	0 X
240-33437-17	CC-081129-011714-EPM-017	0 X	0 X
240-33437-18	CC-081129-011714-EPM-018	0 X	0 X
240-33437-19	CC-081129-011714-EPM-019	0 X	103
240-33437-20	CC-081129-011714-EPM-020	0 X	0 X
240-33437-21	CC-081129-011714-EPM-021	0 X	0 X
240-33437-21 MS	CC-081129-011714-EPM-021	0 X	0 X
240-33437-21 MSD	CC-081129-011714-EPM-021	0 X	0 X
LCS 240-117330/23-A	Lab Control Sample	81	78
LCS 240-117468/16-A	Lab Control Sample	76	71
MB 240-117330/22-A	Method Blank	78	81
MB 240-117468/15-A	Method Blank	88	65

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Wipe

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (52-162)	DCB1 (35-162)
240-33437-1	W-081129-011714-EPM-001	75	78
240-33437-2	W-081129-011714-EPM-002	81	87
240-33437-3	W-081129-011714-EPM-003	71	69
240-33437-4	W-081129-011714-EPM-004	68	67
240-33437-5	W-081129-011714-EPM-005	68	65
240-33437-6	W-081129-011714-EPM-006	71	66
240-33437-7	W-081129-011714-EPM-007	71	69
240-33437-8	W-081129-011714-EPM-008	73	71
LCS 240-117185/10-A	Lab Control Sample	80	88
MB 240-117185/9-A	Method Blank	68	73

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Client Sample ID: W-081129-011714-EPM-001

Lab Sample ID: 240-33437-1

Date Collected: 01/17/14 10:05

Matrix: Wipe

Date Received: 01/18/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117185	01/21/14 08:36	CSC	TAL CAN
Total/NA	Analysis	8082		5	117586	01/24/14 11:30	HMB	TAL CAN

Client Sample ID: W-081129-011714-EPM-002

Lab Sample ID: 240-33437-2

Date Collected: 01/17/14 10:10

Matrix: Wipe

Date Received: 01/18/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117185	01/21/14 08:36	CSC	TAL CAN
Total/NA	Analysis	8082		5	117586	01/24/14 11:45	HMB	TAL CAN

Client Sample ID: W-081129-011714-EPM-003

Lab Sample ID: 240-33437-3

Date Collected: 01/17/14 10:15

Matrix: Wipe

Date Received: 01/18/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117185	01/21/14 08:36	CSC	TAL CAN
Total/NA	Analysis	8082		1	117428	01/23/14 05:47	HMB	TAL CAN

Client Sample ID: W-081129-011714-EPM-004

Lab Sample ID: 240-33437-4

Date Collected: 01/17/14 10:20

Matrix: Wipe

Date Received: 01/18/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117185	01/21/14 08:36	CSC	TAL CAN
Total/NA	Analysis	8082		1	117428	01/23/14 06:03	HMB	TAL CAN

Client Sample ID: W-081129-011714-EPM-005

Lab Sample ID: 240-33437-5

Date Collected: 01/17/14 10:40

Matrix: Wipe

Date Received: 01/18/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117185	01/21/14 08:36	CSC	TAL CAN
Total/NA	Analysis	8082		1	117428	01/23/14 06:19	HMB	TAL CAN

Client Sample ID: W-081129-011714-EPM-006

Lab Sample ID: 240-33437-6

Date Collected: 01/17/14 10:45

Matrix: Wipe

Date Received: 01/18/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117185	01/21/14 08:36	CSC	TAL CAN
Total/NA	Analysis	8082		1	117428	01/23/14 06:34	HMB	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Client Sample ID: W-081129-011714-EPM-007

Lab Sample ID: 240-33437-7

Date Collected: 01/17/14 10:50

Matrix: Wipe

Date Received: 01/18/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117185	01/21/14 08:36	CSC	TAL CAN
Total/NA	Analysis	8082		1	117428	01/23/14 06:50	HMB	TAL CAN

Client Sample ID: W-081129-011714-EPM-008

Lab Sample ID: 240-33437-8

Date Collected: 01/17/14 10:55

Matrix: Wipe

Date Received: 01/18/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117185	01/21/14 08:36	CSC	TAL CAN
Total/NA	Analysis	8082		1	117428	01/23/14 07:06	HMB	TAL CAN

Client Sample ID: CC-081129-011714-EPM-009

Lab Sample ID: 240-33437-9

Date Collected: 01/17/14 11:15

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117330	01/22/14 09:01	MPM	TAL CAN
Total/NA	Analysis	8082		1	117548	01/24/14 06:23	LSH	TAL CAN
Total/NA	Analysis	Moisture		1	117131	01/20/14 16:17	JAK	TAL CAN

Client Sample ID: CC-081129-011714-EPM-010

Lab Sample ID: 240-33437-10

Date Collected: 01/17/14 11:20

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117330	01/22/14 09:01	MPM	TAL CAN
Total/NA	Analysis	8082		1	117548	01/24/14 06:38	LSH	TAL CAN
Total/NA	Analysis	Moisture		1	117131	01/20/14 16:17	JAK	TAL CAN

Client Sample ID: CC-081129-011714-EPM-011

Lab Sample ID: 240-33437-11

Date Collected: 01/17/14 11:25

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117468	01/23/14 09:40	MPM	TAL CAN
Total/NA	Analysis	8082		2	117691	01/27/14 02:00	HMB	TAL CAN
Total/NA	Analysis	Moisture		1	117131	01/20/14 16:17	JAK	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Client Sample ID: CC-081129-011714-EPM-012

Lab Sample ID: 240-33437-12

Date Collected: 01/17/14 11:45

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 99.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117330	01/22/14 09:01	MPM	TAL CAN
Total/NA	Analysis	8082		10	117548	01/24/14 06:53	LSH	TAL CAN
Total/NA	Analysis	Moisture		1	117131	01/20/14 16:17	JAK	TAL CAN

Client Sample ID: CC-081129-011714-EPM-013

Lab Sample ID: 240-33437-13

Date Collected: 01/17/14 11:50

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 98.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117330	01/22/14 09:01	MPM	TAL CAN
Total/NA	Analysis	8082		5	117548	01/24/14 07:08	LSH	TAL CAN
Total/NA	Analysis	Moisture		1	117131	01/20/14 16:17	JAK	TAL CAN

Client Sample ID: CC-081129-011714-EPM-014

Lab Sample ID: 240-33437-14

Date Collected: 01/17/14 11:55

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 98.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117330	01/22/14 09:01	MPM	TAL CAN
Total/NA	Analysis	8082		10	117548	01/24/14 07:23	LSH	TAL CAN
Total/NA	Analysis	Moisture		1	117131	01/20/14 16:17	JAK	TAL CAN

Client Sample ID: CC-081129-011714-EPM-015

Lab Sample ID: 240-33437-15

Date Collected: 01/17/14 12:00

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 99.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117330	01/22/14 09:01	MPM	TAL CAN
Total/NA	Analysis	8082		10	117548	01/24/14 08:08	LSH	TAL CAN
Total/NA	Analysis	Moisture		1	117131	01/20/14 16:17	JAK	TAL CAN

Client Sample ID: CC-081129-011714-EPM-016

Lab Sample ID: 240-33437-16

Date Collected: 01/17/14 12:30

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117330	01/22/14 09:01	MPM	TAL CAN
Total/NA	Analysis	8082		5000	117548	01/24/14 08:23	LSH	TAL CAN
Total/NA	Analysis	Moisture		1	117131	01/20/14 16:17	JAK	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Client Sample ID: CC-081129-011714-EPM-017

Lab Sample ID: 240-33437-17

Date Collected: 01/17/14 12:35

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 99.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117330	01/22/14 09:01	MPM	TAL CAN
Total/NA	Analysis	8082		200	117548	01/24/14 08:38	LSH	TAL CAN
Total/NA	Analysis	Moisture		1	117131	01/20/14 16:17	JAK	TAL CAN

Client Sample ID: CC-081129-011714-EPM-018

Lab Sample ID: 240-33437-18

Date Collected: 01/17/14 12:40

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 97.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117330	01/22/14 09:01	MPM	TAL CAN
Total/NA	Analysis	8082		20	117548	01/24/14 08:53	LSH	TAL CAN
Total/NA	Analysis	Moisture		1	117131	01/20/14 16:17	JAK	TAL CAN

Client Sample ID: CC-081129-011714-EPM-019

Lab Sample ID: 240-33437-19

Date Collected: 01/17/14 12:45

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 98.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117330	01/22/14 09:01	MPM	TAL CAN
Total/NA	Analysis	8082		10	117548	01/24/14 09:08	LSH	TAL CAN
Total/NA	Analysis	Moisture		1	117131	01/20/14 16:17	JAK	TAL CAN

Client Sample ID: CC-081129-011714-EPM-020

Lab Sample ID: 240-33437-20

Date Collected: 01/17/14 12:50

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117330	01/22/14 09:01	MPM	TAL CAN
Total/NA	Analysis	8082		50	117548	01/24/14 09:23	LSH	TAL CAN
Total/NA	Analysis	Moisture		1	117131	01/20/14 16:17	JAK	TAL CAN

Client Sample ID: CC-081129-011714-EPM-021

Lab Sample ID: 240-33437-21

Date Collected: 01/17/14 12:55

Matrix: Solid

Date Received: 01/18/14 09:50

Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			117330	01/22/14 09:01	MPM	TAL CAN
Total/NA	Analysis	8082		5000	117548	01/24/14 09:38	LSH	TAL CAN
Total/NA	Analysis	Moisture		1	117131	01/20/14 16:17	JAK	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TestAmerica Canton

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-33437-1

Laboratory: TestAmerica Canton

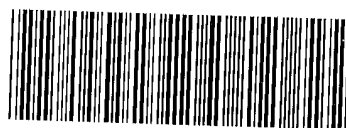
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14
Connecticut	State Program	1	PH-0590	12-31-13 *
Florida	NELAP	4	E87225	06-30-14
Georgia	State Program	4	N/A	06-30-14
Illinois	NELAP	5	200004	07-31-14 *
Kansas	NELAP	7	E-10336	01-31-14 *
Kentucky (UST)	State Program	4	58	06-30-14
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-13 *
Nevada	State Program	9	OH-000482008A	07-31-14
New Jersey	NELAP	2	OH001	06-30-14
New York	NELAP	2	10975	04-01-14
Ohio VAP	State Program	5	CL0024	10-31-15
Pennsylvania	NELAP	3	68-00340	08-31-14 *
Texas	NELAP	6		08-31-14 *
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-14
Washington	State Program	10	C971	01-12-14 *
West Virginia DEP	State Program	3	210	01-31-14 *
Wisconsin	State Program	5	999518190	08-31-14

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Canton

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-33437 Chain of Custody



CONESTOGA-ROVERS & ASSOCIATES

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

PAGE 1 OF 2

ID # N^o D 7502

Required Client Information:

Company: CRA, Inc.	Report To:
Address: 14496 Sheldon Rd.	Copy To:
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: WCAA
Fax: 734-453-5201	Project Number: 081129-42C
Email:	

Laboratory: TEST America
Laboratory Location: North Canton
Laboratory Contact:
Requested Due Date: TAT: 1 week
QA/QC Requirements:

SSOW Ref. Code:

Sample Identification:		Analysis and Method										Remarks/Lab ID
		Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	
1.	W-081129-011714-EPM-001	SW	01/17/14	10:05	1	X						
	W-081129-011714-EPM-002			10:10	1	X						
	W-081129-011714-EPM-003			10:15	1	X						
	W-081129-011714-EPM-004			10:20	1	X						
	W-081129-011714-EPM-005			10:40	1	X						
	W-081129-011714-EPM-006			10:45	1	X						
	W-081129-011714-EPM-007			10:50	1	X						
	W-081129-011714-EPM-008			10:55	1	X						
	CC-081129-011714-EPM-009	CC		11:15	1	X						
	CC-081129-011714-EPM-010			11:20	1	X						
	CC-081129-011714-EPM-011			11:25	1	X						
	CC-081129-011714-EPM-012			11:45	1	X						
	CC-081129-011714-EPM-013			11:50	1	X						
	CC-081129-011714-EPM-014			11:55	1	X						
	CC-081129-011714-EPM-015			12:00	1	X						
TOTAL NUMBER OF CONTAINERS					15							

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
	1	EE M	01/17/14		Denny Burns/TA	1/18/14	0950
AIRBILL NO.							

Sample Condition	
Temp in C	
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

Additional Comments:

Sampler Name:	Eric Maise, Shawn Mclean
Sampler Signature:	EE M Date: 01/17/14



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO.: **PL-13919**

PAGE 2 OF 2

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 081129 - H2C				Laboratory Name: Test America				Lab Location: North Canton				SSOW ID:							
Project Name: WCAA BDA				Lab Contact:				Lab Quote No:				Cooler No:							
Project Location:				SAMPLE TYPE		CONTAINER QUANTITY & PRESERVATION						ANALYSIS REQUESTED (See Back of COC for Definitions)						Carrier:	
Chemistry Contact:				Matrix Code (see back of COC) Grab (G) or Comp (C)		Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	PCBs	MS/MSD Request	Airbill No:		
Sampler(s): Eric Mize, Shawn McLean																	Date Shipped:		
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)			DATE (mm/dd/yyyy)	TIME (hh:mm)												COMMENTS/ SPECIAL INSTRUCTIONS:		
1	CC-081129-011714-EPM-016			01-17-14	12:30	CC	X												
2	CC-081129-011714-EPM-017				12:35		X												
3	CC-081129-011714-EPM-018				12:40		X												
4	CC-081129-011714-EPM-019				12:45		X												
5	CC-081129-011714-EPM-020				12:50		X												
6	CC-081129-011714-EPM-021				12:55		X												
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
TAT Required in business days (use separate COCs for different TATs):						Total Number of Containers: 6						Notes/ Special Requirements:							
<input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week <input type="checkbox"/> Other:						All Samples in Cooler must be on COC													
RELINQUISHED BY		COMPANY		DATE		TIME		RECEIVED BY		COMPANY		DATE		TIME					
1. Eric Mize		CRA		01/17/14				1. Darryl Burns		TA		1/18/14		0950					
2.								3.											
3.																			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (CRA)

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampling Crew

CRA Form: COC-10A (20110804)



TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login #: 33437

Client <u>CRA</u>		Site Name <u>WCAA</u>		Cooler unpacked by: <u>Derry Burns</u>	
Cooler Received on <u>1/18/14</u>		Opened on <u>1/18/14</u>			
FedEx: 1 st Grd <u>Exp</u>		UPS FAS Stetson		Client Drop Off TestAmerica Courier Other _____	
TestAmerica Cooler # <u>Edison</u>		Foam Box		Client Cooler Box Other _____	
Packing material used: <u>Bubble Wrap</u>		Foam Plastic Bag		None Other _____	
COOLANT: <u>Wet Ice</u>		Blue Ice Dry Ice Water		None	

1. Cooler temperature upon receipt
 IR GUN# A (CF +0 °C) Observed Cooler Temp. 1.2°C Corrected Cooler Temp. 1.2°C
 IR GUN# 4 (CF -1 °C) Observed Cooler Temp. _____°C Corrected Cooler Temp. _____°C
 IR GUN# 5 (CF +1 °C) Observed Cooler Temp. _____°C Corrected Cooler Temp. _____°C
 IR GUN# 8 (CF +1 °C) Observed Cooler Temp. _____°C Corrected Cooler Temp. _____°C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
 -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were custody seals on the bottle(s)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Did all bottles arrive in good condition (Unbroken)? Yes No
7. Could all bottle labels be reconciled with the COC? Yes No
8. Were correct bottle(s) used for the test(s) indicated? Yes No
9. Sufficient quantity received to perform indicated analyses? Yes No
10. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC391902
11. Were VOAs on the COC? Yes No
12. Were air bubbles >6 mm in any VOA vials? Yes No NA
13. Was a trip blank present in the cooler(s)? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: [Signature]

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-34230-1

Client Project/Site: 81129, WCAA

For:

Conestoga-Rovers & Associates, Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Rawa Fleisher



Authorized for release by:

2/20/2014 3:19:06 PM

Nathan Pietras, Project Manager II

(330)966-8296

nathan.pietras@testamericainc.com

Designee for

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Job ID: 240-34230-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 81129, WCAA

Report Number: 240-34230-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 02/15/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.6 C.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples CC-081129-21414-EPM-022 (240-34230-1) and SO-081129-21414-EPM-024 (240-34230-3) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 02/17/2014 and analyzed on 02/20/2014.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria low for CC-081129-21414-EPM-022 (240-34230-1), SO-081129-21414-EPM-024 (240-34230-3).

Samples CC-081129-21414-EPM-022 (240-34230-1)[200X] and SO-081129-21414-EPM-024 (240-34230-3)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the PCBs analysis.

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Job ID: 240-34230-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples S-081129-21414-EPM-042 (240-34230-21), S-081129-21414-EPM-043 (240-34230-22), S-081129-21414-EPM-025 (240-34230-23), S-081129-21414-EPM-026 (240-34230-24), S-081129-21414-EPM-027 (240-34230-25), S-081129-21414-EPM-028 (240-34230-26), S-081129-21414-EPM-029 (240-34230-27), S-081129-21414-EPM-030 (240-34230-28), S-081129-21414-EPM-031 (240-34230-29), S-081129-21414-EPM-032 (240-34230-30), S-081129-21414-EPM-033 (240-34230-31), S-081129-21414-EPM-034 (240-34230-32), S-081129-21414-EPM-035 (240-34230-33), S-081129-21414-EPM-036 (240-34230-34), S-081129-21414-EPM-037 (240-34230-35), S-081129-21414-EPM-038 (240-34230-36), S-081129-21414-EPM-039 (240-34230-37), S-081129-21414-EPM-040 (240-34230-38) and S-081129-21414-EPM-041 (240-34230-39) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 02/17/2014 and analyzed on 02/19/2014.

All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

DCB Decachlorobiphenyl and Tetrachloro-m-xylene failed the surrogate recovery criteria low for S-081129-21414-EPM-026 (240-34230-24), S-081129-21414-EPM-037 (240-34230-35), S-081129-21414-EPM-040 (240-34230-38).

Tetrachloro-m-xylene failed the surrogate recovery criteria low for S-081129-21414-EPM-033 (240-34230-31).

Samples S-081129-21414-EPM-043 (240-34230-22)[2X], S-081129-21414-EPM-026 (240-34230-24)[10X], S-081129-21414-EPM-029 (240-34230-27)[2X], S-081129-21414-EPM-030 (240-34230-28)[5X], S-081129-21414-EPM-031 (240-34230-29)[5X], S-081129-21414-EPM-033 (240-34230-31)[5X], S-081129-21414-EPM-035 (240-34230-33)[2X], S-081129-21414-EPM-037 (240-34230-35)[10X] and S-081129-21414-EPM-040 (240-34230-38)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) 8082: The following sample(s) appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: S-081129-21414-EPM-028 (240-34230-26). The sample(s) has been quantified and reported as a mixture of Aroclors. The best possible aroclor was reported. Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

Method(s) 8082: The following sample(s) required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: (240-34230-39 MS), (240-34230-39 MSD), S-081129-21414-EPM-040 (240-34230-38), S-081129-21414-EPM-041 (240-34230-39). Lot # S65830

No other difficulties were encountered during the PCBs analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples CC-081129-21414-EPM-022 (240-34230-1) and SO-081129-21414-EPM-024 (240-34230-3) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 02/17/2014.

No difficulties were encountered during the % solids analysis.

All quality control parameters were within the acceptance limits.

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-34230-1	CC-081129-21414-EPM-022	Solid	02/14/14 11:00	02/15/14 11:15
240-34230-3	SO-081129-21414-EPM-024	Solid	02/14/14 11:25	02/15/14 11:15
240-34230-21	S-081129-21414-EPM-042	Waste	02/14/14 15:35	02/15/14 11:15
240-34230-22	S-081129-21414-EPM-043	Waste	02/14/14 15:30	02/15/14 11:15
240-34230-23	S-081129-21414-EPM-025	Waste	02/14/14 13:30	02/15/14 11:15
240-34230-24	S-081129-21414-EPM-026	Waste	02/14/14 13:35	02/15/14 11:15
240-34230-25	S-081129-21414-EPM-027	Waste	02/14/14 13:40	02/15/14 11:15
240-34230-26	S-081129-21414-EPM-028	Waste	02/14/14 13:50	02/15/14 11:15
240-34230-27	S-081129-21414-EPM-029	Waste	02/14/14 13:55	02/15/14 11:15
240-34230-28	S-081129-21414-EPM-030	Waste	02/14/14 14:10	02/15/14 11:15
240-34230-29	S-081129-21414-EPM-031	Waste	02/14/14 14:15	02/15/14 11:15
240-34230-30	S-081129-21414-EPM-032	Waste	02/14/14 14:20	02/15/14 11:15
240-34230-31	S-081129-21414-EPM-033	Waste	02/14/14 14:25	02/15/14 11:15
240-34230-32	S-081129-21414-EPM-034	Waste	02/14/14 14:35	02/15/14 11:15
240-34230-33	S-081129-21414-EPM-035	Waste	02/14/14 14:45	02/15/14 11:15
240-34230-34	S-081129-21414-EPM-036	Waste	02/14/14 14:55	02/15/14 11:15
240-34230-35	S-081129-21414-EPM-037	Waste	02/14/14 15:00	02/15/14 11:15
240-34230-36	S-081129-21414-EPM-038	Waste	02/14/14 15:05	02/15/14 11:15
240-34230-37	S-081129-21414-EPM-039	Waste	02/14/14 15:07	02/15/14 11:15
240-34230-38	S-081129-21414-EPM-040	Waste	02/14/14 15:10	02/15/14 11:15
240-34230-39	S-081129-21414-EPM-041	Waste	02/14/14 15:15	02/15/14 11:15

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Client Sample ID: CC-081129-21414-EPM-022

Lab Sample ID: 240-34230-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	120000		41000	ug/Kg	200	☼	8082	Total/NA

Client Sample ID: SO-081129-21414-EPM-024

Lab Sample ID: 240-34230-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	4100		1800	ug/Kg	50	☼	8082	Total/NA

Client Sample ID: S-081129-21414-EPM-042

Lab Sample ID: 240-34230-21

No Detections.

Client Sample ID: S-081129-21414-EPM-043

Lab Sample ID: 240-34230-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	4100		940	ug/Kg	2		8082	Total/NA

Client Sample ID: S-081129-21414-EPM-025

Lab Sample ID: 240-34230-23

No Detections.

Client Sample ID: S-081129-21414-EPM-026

Lab Sample ID: 240-34230-24

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	10000		5000	ug/Kg	10		8082	Total/NA

Client Sample ID: S-081129-21414-EPM-027

Lab Sample ID: 240-34230-25

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1248	1300		490	ug/Kg	1		8082	Total/NA
Aroclor-1260	1500		490	ug/Kg	1		8082	Total/NA

Client Sample ID: S-081129-21414-EPM-028

Lab Sample ID: 240-34230-26

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	4200		480	ug/Kg	1		8082	Total/NA

Client Sample ID: S-081129-21414-EPM-029

Lab Sample ID: 240-34230-27

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	6600		930	ug/Kg	2		8082	Total/NA

Client Sample ID: S-081129-21414-EPM-030

Lab Sample ID: 240-34230-28

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	4200		2400	ug/Kg	5		8082	Total/NA

Client Sample ID: S-081129-21414-EPM-031

Lab Sample ID: 240-34230-29

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	5100		2400	ug/Kg	5		8082	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Client Sample ID: S-081129-21414-EPM-032

Lab Sample ID: 240-34230-30

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	2400		490	ug/Kg	1		8082	Total/NA

Client Sample ID: S-081129-21414-EPM-033

Lab Sample ID: 240-34230-31

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	9100		2300	ug/Kg	5		8082	Total/NA

Client Sample ID: S-081129-21414-EPM-034

Lab Sample ID: 240-34230-32

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	6300		480	ug/Kg	1		8082	Total/NA

Client Sample ID: S-081129-21414-EPM-035

Lab Sample ID: 240-34230-33

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	10000		970	ug/Kg	2		8082	Total/NA

Client Sample ID: S-081129-21414-EPM-036

Lab Sample ID: 240-34230-34

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	2000		500	ug/Kg	1		8082	Total/NA

Client Sample ID: S-081129-21414-EPM-037

Lab Sample ID: 240-34230-35

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	22000		4600	ug/Kg	10		8082	Total/NA

Client Sample ID: S-081129-21414-EPM-038

Lab Sample ID: 240-34230-36

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	2300		500	ug/Kg	1		8082	Total/NA

Client Sample ID: S-081129-21414-EPM-039

Lab Sample ID: 240-34230-37

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	570		480	ug/Kg	1		8082	Total/NA

Client Sample ID: S-081129-21414-EPM-040

Lab Sample ID: 240-34230-38

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	14000		2400	ug/Kg	5		8082	Total/NA

Client Sample ID: S-081129-21414-EPM-041

Lab Sample ID: 240-34230-39

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	2400		490	ug/Kg	1		8082	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-21414-EPM-022

Date Collected: 02/14/14 11:00

Date Received: 02/15/14 11:15

Lab Sample ID: 240-34230-1

Matrix: Solid

Percent Solids: 94.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	41000	U	41000	ug/Kg	☼	02/17/14 10:52	02/20/14 12:35	200
Aroclor-1221	41000	U	41000	ug/Kg	☼	02/17/14 10:52	02/20/14 12:35	200
Aroclor-1232	41000	U	41000	ug/Kg	☼	02/17/14 10:52	02/20/14 12:35	200
Aroclor-1242	41000	U	41000	ug/Kg	☼	02/17/14 10:52	02/20/14 12:35	200
Aroclor-1248	41000	U	41000	ug/Kg	☼	02/17/14 10:52	02/20/14 12:35	200
Aroclor-1254	41000	U	41000	ug/Kg	☼	02/17/14 10:52	02/20/14 12:35	200
Aroclor-1260	120000		41000	ug/Kg	☼	02/17/14 10:52	02/20/14 12:35	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	X	29 - 151	02/17/14 10:52	02/20/14 12:35	200
DCB Decachlorobiphenyl	0	X	14 - 163	02/17/14 10:52	02/20/14 12:35	200

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-081129-21414-EPM-024

Date Collected: 02/14/14 11:25

Date Received: 02/15/14 11:15

Lab Sample ID: 240-34230-3

Matrix: Solid

Percent Solids: 93.1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1800	U	1800	ug/Kg	☼	02/17/14 10:52	02/20/14 12:51	50
Aroclor-1221	1800	U	1800	ug/Kg	☼	02/17/14 10:52	02/20/14 12:51	50
Aroclor-1232	1800	U	1800	ug/Kg	☼	02/17/14 10:52	02/20/14 12:51	50
Aroclor-1242	1800	U	1800	ug/Kg	☼	02/17/14 10:52	02/20/14 12:51	50
Aroclor-1248	1800	U	1800	ug/Kg	☼	02/17/14 10:52	02/20/14 12:51	50
Aroclor-1254	1800	U	1800	ug/Kg	☼	02/17/14 10:52	02/20/14 12:51	50
Aroclor-1260	4100		1800	ug/Kg	☼	02/17/14 10:52	02/20/14 12:51	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	X	29 - 151	02/17/14 10:52	02/20/14 12:51	50
DCB Decachlorobiphenyl	0	X	14 - 163	02/17/14 10:52	02/20/14 12:51	50

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-081129-21414-EPM-042

Lab Sample ID: 240-34230-21

Date Collected: 02/14/14 15:35

Matrix: Waste

Date Received: 02/15/14 11:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 05:27	1
Aroclor-1221	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 05:27	1
Aroclor-1232	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 05:27	1
Aroclor-1242	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 05:27	1
Aroclor-1248	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 05:27	1
Aroclor-1254	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 05:27	1
Aroclor-1260	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 05:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		10 - 199	02/17/14 11:08	02/19/14 05:27	1
DCB Decachlorobiphenyl	71		10 - 199	02/17/14 11:08	02/19/14 05:27	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-081129-21414-EPM-043

Lab Sample ID: 240-34230-22

Date Collected: 02/14/14 15:30

Matrix: Waste

Date Received: 02/15/14 11:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	940	U	940	ug/Kg		02/17/14 11:08	02/19/14 05:42	2
Aroclor-1221	940	U	940	ug/Kg		02/17/14 11:08	02/19/14 05:42	2
Aroclor-1232	940	U	940	ug/Kg		02/17/14 11:08	02/19/14 05:42	2
Aroclor-1242	940	U	940	ug/Kg		02/17/14 11:08	02/19/14 05:42	2
Aroclor-1248	940	U	940	ug/Kg		02/17/14 11:08	02/19/14 05:42	2
Aroclor-1254	940	U	940	ug/Kg		02/17/14 11:08	02/19/14 05:42	2
Aroclor-1260	4100		940	ug/Kg		02/17/14 11:08	02/19/14 05:42	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		10 - 199	02/17/14 11:08	02/19/14 05:42	2
DCB Decachlorobiphenyl	70		10 - 199	02/17/14 11:08	02/19/14 05:42	2

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-081129-21414-EPM-025

Lab Sample ID: 240-34230-23

Date Collected: 02/14/14 13:30

Matrix: Waste

Date Received: 02/15/14 11:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 05:58	1
Aroclor-1221	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 05:58	1
Aroclor-1232	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 05:58	1
Aroclor-1242	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 05:58	1
Aroclor-1248	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 05:58	1
Aroclor-1254	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 05:58	1
Aroclor-1260	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 05:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	63		10 - 199	02/17/14 11:08	02/19/14 05:58	1
DCB Decachlorobiphenyl	59		10 - 199	02/17/14 11:08	02/19/14 05:58	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-081129-21414-EPM-026

Lab Sample ID: 240-34230-24

Date Collected: 02/14/14 13:35

Matrix: Waste

Date Received: 02/15/14 11:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	5000	U	5000	ug/Kg		02/17/14 11:08	02/19/14 06:13	10
Aroclor-1221	5000	U	5000	ug/Kg		02/17/14 11:08	02/19/14 06:13	10
Aroclor-1232	5000	U	5000	ug/Kg		02/17/14 11:08	02/19/14 06:13	10
Aroclor-1242	5000	U	5000	ug/Kg		02/17/14 11:08	02/19/14 06:13	10
Aroclor-1248	5000	U	5000	ug/Kg		02/17/14 11:08	02/19/14 06:13	10
Aroclor-1254	10000		5000	ug/Kg		02/17/14 11:08	02/19/14 06:13	10
Aroclor-1260	5000	U	5000	ug/Kg		02/17/14 11:08	02/19/14 06:13	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	X	10 - 199	02/17/14 11:08	02/19/14 06:13	10
DCB Decachlorobiphenyl	0	X	10 - 199	02/17/14 11:08	02/19/14 06:13	10

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-081129-21414-EPM-027

Lab Sample ID: 240-34230-25

Date Collected: 02/14/14 13:40

Matrix: Waste

Date Received: 02/15/14 11:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 06:28	1
Aroclor-1221	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 06:28	1
Aroclor-1232	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 06:28	1
Aroclor-1242	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 06:28	1
Aroclor-1248	1300		490	ug/Kg		02/17/14 11:08	02/19/14 06:28	1
Aroclor-1254	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 06:28	1
Aroclor-1260	1500		490	ug/Kg		02/17/14 11:08	02/19/14 06:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		10 - 199			02/17/14 11:08	02/19/14 06:28	1
DCB Decachlorobiphenyl	129		10 - 199			02/17/14 11:08	02/19/14 06:28	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-081129-21414-EPM-028

Date Collected: 02/14/14 13:50

Date Received: 02/15/14 11:15

Lab Sample ID: 240-34230-26

Matrix: Waste

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 06:43	1
Aroclor-1221	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 06:43	1
Aroclor-1232	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 06:43	1
Aroclor-1242	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 06:43	1
Aroclor-1248	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 06:43	1
Aroclor-1254	4200		480	ug/Kg		02/17/14 11:08	02/19/14 06:43	1
Aroclor-1260	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 06:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		10 - 199	02/17/14 11:08	02/19/14 06:43	1
DCB Decachlorobiphenyl	60		10 - 199	02/17/14 11:08	02/19/14 06:43	1

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-081129-21414-EPM-029

Lab Sample ID: 240-34230-27

Date Collected: 02/14/14 13:55

Matrix: Waste

Date Received: 02/15/14 11:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	930	U	930	ug/Kg		02/17/14 11:08	02/19/14 06:58	2
Aroclor-1221	930	U	930	ug/Kg		02/17/14 11:08	02/19/14 06:58	2
Aroclor-1232	930	U	930	ug/Kg		02/17/14 11:08	02/19/14 06:58	2
Aroclor-1242	930	U	930	ug/Kg		02/17/14 11:08	02/19/14 06:58	2
Aroclor-1248	930	U	930	ug/Kg		02/17/14 11:08	02/19/14 06:58	2
Aroclor-1254	930	U	930	ug/Kg		02/17/14 11:08	02/19/14 06:58	2
Aroclor-1260	6600		930	ug/Kg		02/17/14 11:08	02/19/14 06:58	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		10 - 199	02/17/14 11:08	02/19/14 06:58	2
DCB Decachlorobiphenyl	107		10 - 199	02/17/14 11:08	02/19/14 06:58	2

TestAmerica Canton

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-081129-21414-EPM-030

Lab Sample ID: 240-34230-28

Date Collected: 02/14/14 14:10

Matrix: Waste

Date Received: 02/15/14 11:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2400	U	2400	ug/Kg		02/17/14 11:08	02/19/14 07:13	5
Aroclor-1221	2400	U	2400	ug/Kg		02/17/14 11:08	02/19/14 07:13	5
Aroclor-1232	2400	U	2400	ug/Kg		02/17/14 11:08	02/19/14 07:13	5
Aroclor-1242	2400	U	2400	ug/Kg		02/17/14 11:08	02/19/14 07:13	5
Aroclor-1248	2400	U	2400	ug/Kg		02/17/14 11:08	02/19/14 07:13	5
Aroclor-1254	2400	U	2400	ug/Kg		02/17/14 11:08	02/19/14 07:13	5
Aroclor-1260	4200		2400	ug/Kg		02/17/14 11:08	02/19/14 07:13	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		10 - 199	02/17/14 11:08	02/19/14 07:13	5
DCB Decachlorobiphenyl	78		10 - 199	02/17/14 11:08	02/19/14 07:13	5

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-081129-21414-EPM-031

Lab Sample ID: 240-34230-29

Date Collected: 02/14/14 14:15

Matrix: Waste

Date Received: 02/15/14 11:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2400	U	2400	ug/Kg		02/17/14 11:08	02/19/14 07:28	5
Aroclor-1221	2400	U	2400	ug/Kg		02/17/14 11:08	02/19/14 07:28	5
Aroclor-1232	2400	U	2400	ug/Kg		02/17/14 11:08	02/19/14 07:28	5
Aroclor-1242	2400	U	2400	ug/Kg		02/17/14 11:08	02/19/14 07:28	5
Aroclor-1248	2400	U	2400	ug/Kg		02/17/14 11:08	02/19/14 07:28	5
Aroclor-1254	2400	U	2400	ug/Kg		02/17/14 11:08	02/19/14 07:28	5
Aroclor-1260	5100		2400	ug/Kg		02/17/14 11:08	02/19/14 07:28	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		10 - 199	02/17/14 11:08	02/19/14 07:28	5
DCB Decachlorobiphenyl	102		10 - 199	02/17/14 11:08	02/19/14 07:28	5

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-081129-21414-EPM-032

Lab Sample ID: 240-34230-30

Date Collected: 02/14/14 14:20

Matrix: Waste

Date Received: 02/15/14 11:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 07:43	1
Aroclor-1221	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 07:43	1
Aroclor-1232	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 07:43	1
Aroclor-1242	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 07:43	1
Aroclor-1248	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 07:43	1
Aroclor-1254	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 07:43	1
Aroclor-1260	2400		490	ug/Kg		02/17/14 11:08	02/19/14 07:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		10 - 199	02/17/14 11:08	02/19/14 07:43	1
DCB Decachlorobiphenyl	66		10 - 199	02/17/14 11:08	02/19/14 07:43	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-081129-21414-EPM-033

Lab Sample ID: 240-34230-31

Date Collected: 02/14/14 14:25

Matrix: Waste

Date Received: 02/15/14 11:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2300	U	2300	ug/Kg		02/17/14 11:08	02/19/14 08:28	5
Aroclor-1221	2300	U	2300	ug/Kg		02/17/14 11:08	02/19/14 08:28	5
Aroclor-1232	2300	U	2300	ug/Kg		02/17/14 11:08	02/19/14 08:28	5
Aroclor-1242	2300	U	2300	ug/Kg		02/17/14 11:08	02/19/14 08:28	5
Aroclor-1248	2300	U	2300	ug/Kg		02/17/14 11:08	02/19/14 08:28	5
Aroclor-1254	2300	U	2300	ug/Kg		02/17/14 11:08	02/19/14 08:28	5
Aroclor-1260	9100		2300	ug/Kg		02/17/14 11:08	02/19/14 08:28	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	X	10 - 199	02/17/14 11:08	02/19/14 08:28	5
DCB Decachlorobiphenyl	74		10 - 199	02/17/14 11:08	02/19/14 08:28	5

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-081129-21414-EPM-034

Lab Sample ID: 240-34230-32

Date Collected: 02/14/14 14:35

Matrix: Waste

Date Received: 02/15/14 11:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 08:44	1
Aroclor-1221	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 08:44	1
Aroclor-1232	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 08:44	1
Aroclor-1242	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 08:44	1
Aroclor-1248	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 08:44	1
Aroclor-1254	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 08:44	1
Aroclor-1260	6300		480	ug/Kg		02/17/14 11:08	02/19/14 08:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		10 - 199	02/17/14 11:08	02/19/14 08:44	1
DCB Decachlorobiphenyl	93		10 - 199	02/17/14 11:08	02/19/14 08:44	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-081129-21414-EPM-035

Lab Sample ID: 240-34230-33

Date Collected: 02/14/14 14:45

Matrix: Waste

Date Received: 02/15/14 11:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	970	U	970	ug/Kg		02/17/14 11:08	02/19/14 08:59	2
Aroclor-1221	970	U	970	ug/Kg		02/17/14 11:08	02/19/14 08:59	2
Aroclor-1232	970	U	970	ug/Kg		02/17/14 11:08	02/19/14 08:59	2
Aroclor-1242	970	U	970	ug/Kg		02/17/14 11:08	02/19/14 08:59	2
Aroclor-1248	970	U	970	ug/Kg		02/17/14 11:08	02/19/14 08:59	2
Aroclor-1254	970	U	970	ug/Kg		02/17/14 11:08	02/19/14 08:59	2
Aroclor-1260	10000		970	ug/Kg		02/17/14 11:08	02/19/14 08:59	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		10 - 199	02/17/14 11:08	02/19/14 08:59	2
DCB Decachlorobiphenyl	85		10 - 199	02/17/14 11:08	02/19/14 08:59	2

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-081129-21414-EPM-036

Lab Sample ID: 240-34230-34

Date Collected: 02/14/14 14:55

Matrix: Waste

Date Received: 02/15/14 11:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	500	U	500	ug/Kg		02/17/14 11:08	02/19/14 09:14	1
Aroclor-1221	500	U	500	ug/Kg		02/17/14 11:08	02/19/14 09:14	1
Aroclor-1232	500	U	500	ug/Kg		02/17/14 11:08	02/19/14 09:14	1
Aroclor-1242	500	U	500	ug/Kg		02/17/14 11:08	02/19/14 09:14	1
Aroclor-1248	500	U	500	ug/Kg		02/17/14 11:08	02/19/14 09:14	1
Aroclor-1254	500	U	500	ug/Kg		02/17/14 11:08	02/19/14 09:14	1
Aroclor-1260	2000		500	ug/Kg		02/17/14 11:08	02/19/14 09:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		10 - 199	02/17/14 11:08	02/19/14 09:14	1
DCB Decachlorobiphenyl	72		10 - 199	02/17/14 11:08	02/19/14 09:14	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-081129-21414-EPM-037

Lab Sample ID: 240-34230-35

Date Collected: 02/14/14 15:00

Matrix: Waste

Date Received: 02/15/14 11:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	4600	U	4600	ug/Kg		02/17/14 11:08	02/19/14 09:29	10
Aroclor-1221	4600	U	4600	ug/Kg		02/17/14 11:08	02/19/14 09:29	10
Aroclor-1232	4600	U	4600	ug/Kg		02/17/14 11:08	02/19/14 09:29	10
Aroclor-1242	4600	U	4600	ug/Kg		02/17/14 11:08	02/19/14 09:29	10
Aroclor-1248	4600	U	4600	ug/Kg		02/17/14 11:08	02/19/14 09:29	10
Aroclor-1254	22000		4600	ug/Kg		02/17/14 11:08	02/19/14 09:29	10
Aroclor-1260	4600	U	4600	ug/Kg		02/17/14 11:08	02/19/14 09:29	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	101		10 - 199	02/17/14 11:08	02/19/14 09:29	10
DCB Decachlorobiphenyl	0	X	10 - 199	02/17/14 11:08	02/19/14 09:29	10

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-081129-21414-EPM-038

Lab Sample ID: 240-34230-36

Date Collected: 02/14/14 15:05

Matrix: Waste

Date Received: 02/15/14 11:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	500	U	500	ug/Kg		02/17/14 11:08	02/19/14 09:44	1
Aroclor-1221	500	U	500	ug/Kg		02/17/14 11:08	02/19/14 09:44	1
Aroclor-1232	500	U	500	ug/Kg		02/17/14 11:08	02/19/14 09:44	1
Aroclor-1242	500	U	500	ug/Kg		02/17/14 11:08	02/19/14 09:44	1
Aroclor-1248	500	U	500	ug/Kg		02/17/14 11:08	02/19/14 09:44	1
Aroclor-1254	500	U	500	ug/Kg		02/17/14 11:08	02/19/14 09:44	1
Aroclor-1260	2300		500	ug/Kg		02/17/14 11:08	02/19/14 09:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		10 - 199	02/17/14 11:08	02/19/14 09:44	1
DCB Decachlorobiphenyl	119		10 - 199	02/17/14 11:08	02/19/14 09:44	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-081129-21414-EPM-039

Date Collected: 02/14/14 15:07

Date Received: 02/15/14 11:15

Lab Sample ID: 240-34230-37

Matrix: Waste

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 09:59	1
Aroclor-1221	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 09:59	1
Aroclor-1232	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 09:59	1
Aroclor-1242	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 09:59	1
Aroclor-1248	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 09:59	1
Aroclor-1254	480	U	480	ug/Kg		02/17/14 11:08	02/19/14 09:59	1
Aroclor-1260	570		480	ug/Kg		02/17/14 11:08	02/19/14 09:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	63		10 - 199			02/17/14 11:08	02/19/14 09:59	1
DCB Decachlorobiphenyl	57		10 - 199			02/17/14 11:08	02/19/14 09:59	1

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-081129-21414-EPM-040

Lab Sample ID: 240-34230-38

Date Collected: 02/14/14 15:10

Matrix: Waste

Date Received: 02/15/14 11:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	2400	U	2400	ug/Kg		02/17/14 11:08	02/19/14 10:14	5
Aroclor-1221	2400	U	2400	ug/Kg		02/17/14 11:08	02/19/14 10:14	5
Aroclor-1232	2400	U	2400	ug/Kg		02/17/14 11:08	02/19/14 10:14	5
Aroclor-1242	2400	U	2400	ug/Kg		02/17/14 11:08	02/19/14 10:14	5
Aroclor-1248	2400	U	2400	ug/Kg		02/17/14 11:08	02/19/14 10:14	5
Aroclor-1254	14000		2400	ug/Kg		02/17/14 11:08	02/19/14 10:14	5
Aroclor-1260	2400	U	2400	ug/Kg		02/17/14 11:08	02/19/14 10:14	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93		10 - 199	02/17/14 11:08	02/19/14 10:14	5
DCB Decachlorobiphenyl	0	X	10 - 199	02/17/14 11:08	02/19/14 10:14	5

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: S-081129-21414-EPM-041

Date Collected: 02/14/14 15:15

Date Received: 02/15/14 11:15

Lab Sample ID: 240-34230-39

Matrix: Waste

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 10:29	1
Aroclor-1221	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 10:29	1
Aroclor-1232	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 10:29	1
Aroclor-1242	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 10:29	1
Aroclor-1248	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 10:29	1
Aroclor-1254	490	U	490	ug/Kg		02/17/14 11:08	02/19/14 10:29	1
Aroclor-1260	2400		490	ug/Kg		02/17/14 11:08	02/19/14 10:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	73		10 - 199	02/17/14 11:08	02/19/14 10:29	1
<i>DCB Decachlorobiphenyl</i>	91		10 - 199	02/17/14 11:08	02/19/14 10:29	1

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

GC Semi VOA

Prep Batch: 119822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-34230-1	CC-081129-21414-EPM-022	Total/NA	Solid	3540C	
240-34230-3	SO-081129-21414-EPM-024	Total/NA	Solid	3540C	
LCS 240-119822/21-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-119822/20-A	Method Blank	Total/NA	Solid	3540C	

Prep Batch: 119830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-34230-21	S-081129-21414-EPM-042	Total/NA	Waste	3540C	
240-34230-22	S-081129-21414-EPM-043	Total/NA	Waste	3540C	
240-34230-23	S-081129-21414-EPM-025	Total/NA	Waste	3540C	
240-34230-24	S-081129-21414-EPM-026	Total/NA	Waste	3540C	
240-34230-25	S-081129-21414-EPM-027	Total/NA	Waste	3540C	
240-34230-26	S-081129-21414-EPM-028	Total/NA	Waste	3540C	
240-34230-27	S-081129-21414-EPM-029	Total/NA	Waste	3540C	
240-34230-28	S-081129-21414-EPM-030	Total/NA	Waste	3540C	
240-34230-29	S-081129-21414-EPM-031	Total/NA	Waste	3540C	
240-34230-30	S-081129-21414-EPM-032	Total/NA	Waste	3540C	
240-34230-31	S-081129-21414-EPM-033	Total/NA	Waste	3540C	
240-34230-32	S-081129-21414-EPM-034	Total/NA	Waste	3540C	
240-34230-33	S-081129-21414-EPM-035	Total/NA	Waste	3540C	
240-34230-34	S-081129-21414-EPM-036	Total/NA	Waste	3540C	
240-34230-35	S-081129-21414-EPM-037	Total/NA	Waste	3540C	
240-34230-36	S-081129-21414-EPM-038	Total/NA	Waste	3540C	
240-34230-37	S-081129-21414-EPM-039	Total/NA	Waste	3540C	
240-34230-38	S-081129-21414-EPM-040	Total/NA	Waste	3540C	
240-34230-39	S-081129-21414-EPM-041	Total/NA	Waste	3540C	
240-34230-39 MS	S-081129-21414-EPM-041	Total/NA	Waste	3540C	
240-34230-39 MSD	S-081129-21414-EPM-041	Total/NA	Waste	3540C	
LCS 240-119830/23-A	Lab Control Sample	Total/NA	Waste	3540C	
MB 240-119830/22-A	Method Blank	Total/NA	Waste	3540C	

Analysis Batch: 120035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-119822/20-A	Method Blank	Total/NA	Solid	8082	119822

Analysis Batch: 120036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-34230-21	S-081129-21414-EPM-042	Total/NA	Waste	8082	119830
240-34230-22	S-081129-21414-EPM-043	Total/NA	Waste	8082	119830
240-34230-23	S-081129-21414-EPM-025	Total/NA	Waste	8082	119830
240-34230-24	S-081129-21414-EPM-026	Total/NA	Waste	8082	119830
240-34230-25	S-081129-21414-EPM-027	Total/NA	Waste	8082	119830
240-34230-26	S-081129-21414-EPM-028	Total/NA	Waste	8082	119830
240-34230-27	S-081129-21414-EPM-029	Total/NA	Waste	8082	119830
240-34230-28	S-081129-21414-EPM-030	Total/NA	Waste	8082	119830
240-34230-29	S-081129-21414-EPM-031	Total/NA	Waste	8082	119830
240-34230-30	S-081129-21414-EPM-032	Total/NA	Waste	8082	119830
240-34230-31	S-081129-21414-EPM-033	Total/NA	Waste	8082	119830
240-34230-32	S-081129-21414-EPM-034	Total/NA	Waste	8082	119830
240-34230-33	S-081129-21414-EPM-035	Total/NA	Waste	8082	119830
240-34230-34	S-081129-21414-EPM-036	Total/NA	Waste	8082	119830

TestAmerica Canton

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

GC Semi VOA (Continued)

Analysis Batch: 120036 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-34230-35	S-081129-21414-EPM-037	Total/NA	Waste	8082	119830
240-34230-36	S-081129-21414-EPM-038	Total/NA	Waste	8082	119830
240-34230-37	S-081129-21414-EPM-039	Total/NA	Waste	8082	119830
240-34230-38	S-081129-21414-EPM-040	Total/NA	Waste	8082	119830
240-34230-39	S-081129-21414-EPM-041	Total/NA	Waste	8082	119830
240-34230-39 MS	S-081129-21414-EPM-041	Total/NA	Waste	8082	119830
240-34230-39 MSD	S-081129-21414-EPM-041	Total/NA	Waste	8082	119830
LCS 240-119830/23-A	Lab Control Sample	Total/NA	Waste	8082	119830
MB 240-119830/22-A	Method Blank	Total/NA	Waste	8082	119830

Analysis Batch: 120220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-34230-1	CC-081129-21414-EPM-022	Total/NA	Solid	8082	119822
240-34230-3	SO-081129-21414-EPM-024	Total/NA	Solid	8082	119822
LCS 240-119822/21-A	Lab Control Sample	Total/NA	Solid	8082	119822

General Chemistry

Analysis Batch: 119825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-34230-1	CC-081129-21414-EPM-022	Total/NA	Solid	Moisture	
240-34230-3	SO-081129-21414-EPM-024	Total/NA	Solid	Moisture	
240-34230-A-9 DU	240-34230-A-9 DU	Total/NA	Solid	Moisture	

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-119822/20-A

Matrix: Solid

Analysis Batch: 120035

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119822

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	33	U	33	ug/Kg		02/17/14 10:10	02/19/14 14:56	1
Aroclor-1221	33	U	33	ug/Kg		02/17/14 10:10	02/19/14 14:56	1
Aroclor-1232	33	U	33	ug/Kg		02/17/14 10:10	02/19/14 14:56	1
Aroclor-1242	33	U	33	ug/Kg		02/17/14 10:10	02/19/14 14:56	1
Aroclor-1248	33	U	33	ug/Kg		02/17/14 10:10	02/19/14 14:56	1
Aroclor-1254	33	U	33	ug/Kg		02/17/14 10:10	02/19/14 14:56	1
Aroclor-1260	33	U	33	ug/Kg		02/17/14 10:10	02/19/14 14:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		29 - 151	02/17/14 10:10	02/19/14 14:56	1
DCB Decachlorobiphenyl	92		14 - 163	02/17/14 10:10	02/19/14 14:56	1

Lab Sample ID: LCS 240-119822/21-A

Matrix: Solid

Analysis Batch: 120220

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	333	298		ug/Kg		89	62 - 120
Aroclor-1260	333	314		ug/Kg		94	56 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	93		29 - 151
DCB Decachlorobiphenyl	108		14 - 163

Lab Sample ID: MB 240-119830/22-A

Matrix: Waste

Analysis Batch: 120036

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119830

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	500	U	500	ug/Kg		02/17/14 11:08	02/19/14 07:58	1
Aroclor-1221	500	U	500	ug/Kg		02/17/14 11:08	02/19/14 07:58	1
Aroclor-1232	500	U	500	ug/Kg		02/17/14 11:08	02/19/14 07:58	1
Aroclor-1242	500	U	500	ug/Kg		02/17/14 11:08	02/19/14 07:58	1
Aroclor-1248	500	U	500	ug/Kg		02/17/14 11:08	02/19/14 07:58	1
Aroclor-1254	500	U	500	ug/Kg		02/17/14 11:08	02/19/14 07:58	1
Aroclor-1260	500	U	500	ug/Kg		02/17/14 11:08	02/19/14 07:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		10 - 199	02/17/14 11:08	02/19/14 07:58	1
DCB Decachlorobiphenyl	64		10 - 199	02/17/14 11:08	02/19/14 07:58	1

Lab Sample ID: LCS 240-119830/23-A

Matrix: Waste

Analysis Batch: 120036

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119830

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	10000	8130		ug/Kg		81	34 - 127

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QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-119830/23-A

Matrix: Waste

Analysis Batch: 120036

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119830

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1260			10000	7310		ug/Kg		73	32 - 141
Surrogate	LCS	LCS							
	%Recovery	Qualifier	Limits						
Tetrachloro-m-xylene	93		10 - 199						
DCB Decachlorobiphenyl	62		10 - 199						

Lab Sample ID: 240-34230-39 MS

Matrix: Waste

Analysis Batch: 120036

Client Sample ID: S-081129-21414-EPM-041

Prep Type: Total/NA

Prep Batch: 119830

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	490	U	9710	6500		ug/Kg		67	10 - 199
Aroclor-1260	2400		9710	6900		ug/Kg		46	10 - 199
Surrogate	MS	MS							
	%Recovery	Qualifier	Limits						
Tetrachloro-m-xylene	71		10 - 199						
DCB Decachlorobiphenyl	94		10 - 199						

Lab Sample ID: 240-34230-39 MSD

Matrix: Waste

Analysis Batch: 120036

Client Sample ID: S-081129-21414-EPM-041

Prep Type: Total/NA

Prep Batch: 119830

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Aroclor-1016	490	U	9710	6920		ug/Kg		71	10 - 199	6	30
Aroclor-1260	2400		9710	7730		ug/Kg		55	10 - 199	11	30
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
Tetrachloro-m-xylene	78		10 - 199								
DCB Decachlorobiphenyl	115		10 - 199								

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (29-151)	DCB2 (14-163)
240-34230-1	CC-081129-21414-EPM-022	0 X	0 X
240-34230-3	SO-081129-21414-EPM-024	0 X	0 X
LCS 240-119822/21-A	Lab Control Sample	93	108
MB 240-119822/20-A	Method Blank	91	92
Surrogate Legend			
TCX = Tetrachloro-m-xylene			
DCB = DCB Decachlorobiphenyl			

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Waste

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (10-199)	DCB1 (10-199)
240-34230-21	S-081129-21414-EPM-042	72	71
240-34230-22	S-081129-21414-EPM-043	79	70
240-34230-23	S-081129-21414-EPM-025	63	59
240-34230-24	S-081129-21414-EPM-026	0 X	0 X
240-34230-25	S-081129-21414-EPM-027	77	129
240-34230-26	S-081129-21414-EPM-028	72	60
240-34230-27	S-081129-21414-EPM-029	77	107
240-34230-28	S-081129-21414-EPM-030	79	78
240-34230-29	S-081129-21414-EPM-031	89	102
240-34230-30	S-081129-21414-EPM-032	74	66
240-34230-31	S-081129-21414-EPM-033	0 X	74
240-34230-32	S-081129-21414-EPM-034	72	93
240-34230-33	S-081129-21414-EPM-035	85	85
240-34230-34	S-081129-21414-EPM-036	78	72
240-34230-35	S-081129-21414-EPM-037	101	0 X
240-34230-36	S-081129-21414-EPM-038	74	119
240-34230-37	S-081129-21414-EPM-039	63	57
240-34230-38	S-081129-21414-EPM-040	93	0 X
240-34230-39	S-081129-21414-EPM-041	73	91
240-34230-39 MS	S-081129-21414-EPM-041	71	94
240-34230-39 MSD	S-081129-21414-EPM-041	78	115
LCS 240-119830/23-A	Lab Control Sample	93	62
MB 240-119830/22-A	Method Blank	79	64
Surrogate Legend			
TCX = Tetrachloro-m-xylene			
DCB = DCB Decachlorobiphenyl			

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Client Sample ID: CC-081129-21414-EPM-022

Lab Sample ID: 240-34230-1

Date Collected: 02/14/14 11:00

Matrix: Solid

Date Received: 02/15/14 11:15

Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119822	02/17/14 10:52	MPM	TAL CAN
Total/NA	Analysis	8082		200	120220	02/20/14 12:35	HMB	TAL CAN
Total/NA	Analysis	Moisture		1	119825	02/17/14 13:12	BLW	TAL CAN

Client Sample ID: SO-081129-21414-EPM-024

Lab Sample ID: 240-34230-3

Date Collected: 02/14/14 11:25

Matrix: Solid

Date Received: 02/15/14 11:15

Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119822	02/17/14 10:52	MPM	TAL CAN
Total/NA	Analysis	8082		50	120220	02/20/14 12:51	HMB	TAL CAN
Total/NA	Analysis	Moisture		1	119825	02/17/14 13:12	BLW	TAL CAN

Client Sample ID: S-081129-21414-EPM-042

Lab Sample ID: 240-34230-21

Date Collected: 02/14/14 15:35

Matrix: Waste

Date Received: 02/15/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119830	02/17/14 11:08	MPM	TAL CAN
Total/NA	Analysis	8082		1	120036	02/19/14 05:27	HMB	TAL CAN

Client Sample ID: S-081129-21414-EPM-043

Lab Sample ID: 240-34230-22

Date Collected: 02/14/14 15:30

Matrix: Waste

Date Received: 02/15/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119830	02/17/14 11:08	MPM	TAL CAN
Total/NA	Analysis	8082		2	120036	02/19/14 05:42	HMB	TAL CAN

Client Sample ID: S-081129-21414-EPM-025

Lab Sample ID: 240-34230-23

Date Collected: 02/14/14 13:30

Matrix: Waste

Date Received: 02/15/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119830	02/17/14 11:08	MPM	TAL CAN
Total/NA	Analysis	8082		1	120036	02/19/14 05:58	HMB	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Client Sample ID: S-081129-21414-EPM-026

Lab Sample ID: 240-34230-24

Date Collected: 02/14/14 13:35

Matrix: Waste

Date Received: 02/15/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119830	02/17/14 11:08	MPM	TAL CAN
Total/NA	Analysis	8082		10	120036	02/19/14 06:13	HMB	TAL CAN

Client Sample ID: S-081129-21414-EPM-027

Lab Sample ID: 240-34230-25

Date Collected: 02/14/14 13:40

Matrix: Waste

Date Received: 02/15/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119830	02/17/14 11:08	MPM	TAL CAN
Total/NA	Analysis	8082		1	120036	02/19/14 06:28	HMB	TAL CAN

Client Sample ID: S-081129-21414-EPM-028

Lab Sample ID: 240-34230-26

Date Collected: 02/14/14 13:50

Matrix: Waste

Date Received: 02/15/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119830	02/17/14 11:08	MPM	TAL CAN
Total/NA	Analysis	8082		1	120036	02/19/14 06:43	HMB	TAL CAN

Client Sample ID: S-081129-21414-EPM-029

Lab Sample ID: 240-34230-27

Date Collected: 02/14/14 13:55

Matrix: Waste

Date Received: 02/15/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119830	02/17/14 11:08	MPM	TAL CAN
Total/NA	Analysis	8082		2	120036	02/19/14 06:58	HMB	TAL CAN

Client Sample ID: S-081129-21414-EPM-030

Lab Sample ID: 240-34230-28

Date Collected: 02/14/14 14:10

Matrix: Waste

Date Received: 02/15/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119830	02/17/14 11:08	MPM	TAL CAN
Total/NA	Analysis	8082		5	120036	02/19/14 07:13	HMB	TAL CAN

Client Sample ID: S-081129-21414-EPM-031

Lab Sample ID: 240-34230-29

Date Collected: 02/14/14 14:15

Matrix: Waste

Date Received: 02/15/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119830	02/17/14 11:08	MPM	TAL CAN
Total/NA	Analysis	8082		5	120036	02/19/14 07:28	HMB	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Client Sample ID: S-081129-21414-EPM-032

Lab Sample ID: 240-34230-30

Date Collected: 02/14/14 14:20

Matrix: Waste

Date Received: 02/15/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119830	02/17/14 11:08	MPM	TAL CAN
Total/NA	Analysis	8082		1	120036	02/19/14 07:43	HMB	TAL CAN

Client Sample ID: S-081129-21414-EPM-033

Lab Sample ID: 240-34230-31

Date Collected: 02/14/14 14:25

Matrix: Waste

Date Received: 02/15/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119830	02/17/14 11:08	MPM	TAL CAN
Total/NA	Analysis	8082		5	120036	02/19/14 08:28	HMB	TAL CAN

Client Sample ID: S-081129-21414-EPM-034

Lab Sample ID: 240-34230-32

Date Collected: 02/14/14 14:35

Matrix: Waste

Date Received: 02/15/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119830	02/17/14 11:08	MPM	TAL CAN
Total/NA	Analysis	8082		1	120036	02/19/14 08:44	HMB	TAL CAN

Client Sample ID: S-081129-21414-EPM-035

Lab Sample ID: 240-34230-33

Date Collected: 02/14/14 14:45

Matrix: Waste

Date Received: 02/15/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119830	02/17/14 11:08	MPM	TAL CAN
Total/NA	Analysis	8082		2	120036	02/19/14 08:59	HMB	TAL CAN

Client Sample ID: S-081129-21414-EPM-036

Lab Sample ID: 240-34230-34

Date Collected: 02/14/14 14:55

Matrix: Waste

Date Received: 02/15/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119830	02/17/14 11:08	MPM	TAL CAN
Total/NA	Analysis	8082		1	120036	02/19/14 09:14	HMB	TAL CAN

Client Sample ID: S-081129-21414-EPM-037

Lab Sample ID: 240-34230-35

Date Collected: 02/14/14 15:00

Matrix: Waste

Date Received: 02/15/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119830	02/17/14 11:08	MPM	TAL CAN
Total/NA	Analysis	8082		10	120036	02/19/14 09:29	HMB	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Client Sample ID: S-081129-21414-EPM-038

Lab Sample ID: 240-34230-36

Date Collected: 02/14/14 15:05

Matrix: Waste

Date Received: 02/15/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119830	02/17/14 11:08	MPM	TAL CAN
Total/NA	Analysis	8082		1	120036	02/19/14 09:44	HMB	TAL CAN

Client Sample ID: S-081129-21414-EPM-039

Lab Sample ID: 240-34230-37

Date Collected: 02/14/14 15:07

Matrix: Waste

Date Received: 02/15/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119830	02/17/14 11:08	MPM	TAL CAN
Total/NA	Analysis	8082		1	120036	02/19/14 09:59	HMB	TAL CAN

Client Sample ID: S-081129-21414-EPM-040

Lab Sample ID: 240-34230-38

Date Collected: 02/14/14 15:10

Matrix: Waste

Date Received: 02/15/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119830	02/17/14 11:08	MPM	TAL CAN
Total/NA	Analysis	8082		5	120036	02/19/14 10:14	HMB	TAL CAN

Client Sample ID: S-081129-21414-EPM-041

Lab Sample ID: 240-34230-39

Date Collected: 02/14/14 15:15

Matrix: Waste

Date Received: 02/15/14 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			119830	02/17/14 11:08	MPM	TAL CAN
Total/NA	Analysis	8082		1	120036	02/19/14 10:29	HMB	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14
Connecticut	State Program	1	PH-0590	12-31-14
Florida	NELAP	4	E87225	06-30-14
Georgia	State Program	4	N/A	06-30-14
Illinois	NELAP	5	200004	07-31-14
Kansas	NELAP	7	E-10336	04-01-14 *
Kentucky (UST)	State Program	4	58	06-30-14
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-14
Nevada	State Program	9	OH-000482008A	07-31-14
New Jersey	NELAP	2	OH001	06-30-14
New York	NELAP	2	10975	04-01-14
Ohio VAP	State Program	5	CL0024	10-31-15
Pennsylvania	NELAP	3	68-00340	08-31-14
Texas	NELAP	6		08-31-14
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-14
Washington	State Program	10	C971	01-12-15
West Virginia DEP	State Program	3	210	02-28-14 *
Wisconsin	State Program	5	999518190	08-31-14

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Canton

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-34230 Chain of Custody





14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO.: PL-11759

PAGE 7 OF 2

(See Reverse Side for Instructions)

[illegible]

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution:

WHITE — Fully Executed Copy (CRA)

YELLOW—Receiving Laboratory Copy

PINK – Shipper

GOLDENROD — Sampling Crew

CRA Form: COC-10A (20110804)

2/20/2014

14 13 12 11 10 9 8 7 6 5 4 3 2 1



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO.: **PL-11760**

PAGE 2 OF 2

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 081129-1126				Laboratory Name: TEST AMERICA				Lab Location: NORTH CANTON, OH				SSOW ID: 081129	
Project Name: Willow Run Annual #2				Lab Contact: DENISE HEGNER				Lab Quote No:				Cooler No: 1	
Project Location: UPSIDE, MI				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)	
Chemistry Contact: BRUNDA FLEISCHER				Matrix Code (see back of COC) Grab (G) or Comp (C) Unpreserved Hydrochloric Acid (HCl) Nitric Acid (HNO ₃) Sulfuric Acid (H ₂ SO ₄) Sodium Hydroxide (NaOH) Methanol/Water (Soil VOC) EnCores 3x5-g, 1x25-g Other: Total Containers/Sample				MS/MSD Request				Carrier: FEED EX	
Sampler(s): BEN HONG, ERIC MAISE												Airbill No: 801047519167	
DATE (mm/dd/yy)				TIME (hh:mm)				Date Shipped: 2/14/14				COMMENTS/ SPECIAL INSTRUCTIONS:	
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)												
1	S-081129-21414-FRM-037			21414 15:00			6 1			1			
2	S-081129-21414-FRM-038			21414 15:05			6 1			1			
3	S-081129-21414-FRM-039			21414 15:07			6 1			1			
4	S-081129-21414-FRM-040			21414 15:10			6 1			1			
5	S-081129-21414-FRM-041			21414 15:15			6 1			1			
6	S-081129-21414-FRM-042			21414 15:35			6 1			1			
7	S-081129-21414-FRM-043			21414 15:38			6 1			1			
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2/20/2014

TAT Required in business days (use separate COCs for different TATs): <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input checked="" type="checkbox"/> 3 Days <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week <input type="checkbox"/> Other:				Total Number of Containers: 7		Notes/ Special Requirements: 3-DAY TAT									
All Samples in Cooler must be on COC															
RELINQUISHED BY Bruna Hong		COMPANY CRA		DATE 2/14/14		TIME 18:30		RECEIVED BY [Signature]		COMPANY TA/Canton		DATE 2/15/14		TIME 11:5	
1.								1.							
2.								2.							
3.								3.							

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY



TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 34230

Client CRA Site Name _____ Cooler unpacked by [Signature]

Cooler Received on 2/15/14 Opened on 2/15/14

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

- Cooler temperature upon receipt
 IR GUN# A (CF +0 °C) Observed Cooler Temp. 2.6 °C Corrected Cooler Temp. 2.6 °C
 IR GUN# 4 (CF -1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN# 5 (CF +1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN# 8 (CF +1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
- Were custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
 -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were custody seals on the bottle(s)? Yes No
- Shippers' packing slip attached to the cooler(s)? Yes No
- Did custody papers accompany the sample(s)? Yes No
- Were the custody papers relinquished & signed in the appropriate place? Yes No
- Did all bottles arrive in good condition (Unbroken)? Yes No
- Could all bottle labels be reconciled with the COC? Yes No
- Were correct bottle(s) used for the test(s) indicated? Yes No
- Sufficient quantity received to perform indicated analyses? Yes No
- Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC391902
- Were VOAs on the COC? Yes No
- Were air bubbles >6 mm in any VOA vials? Yes No NA
- Was a trip blank present in the cooler(s)? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: [Signature]

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-34230-2

Client Project/Site: 81129, WCAA

For:

Conestoga-Rovers & Associates, Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Rawa Fleisher



Authorized for release by:

3/5/2014 1:27:54 PM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-2

Job ID: 240-34230-2

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 81129, WCAA

Report Number: 240-34230-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 02/15/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.6 C.

Sample CC-081129-21414-EPM-023 (240-34230-2) was taken off hold for rush analysis on February 28, 2014. A revised chain of custody was not provided.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample CC-081129-21414-EPM-023 (240-34230-2) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 03/03/2014 and analyzed on 03/05/2014.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

Sample CC-081129-21414-EPM-023 (240-34230-2)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the PCBs analysis.

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-2

Job ID: 240-34230-2 (Continued)

Laboratory: TestAmerica Canton (Continued)

All other quality control parameters were within the acceptance limits.

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Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-2

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-34230-2	CC-081129-21414-EPM-023	Solid	02/14/14 11:05	02/15/14 11:15

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-2

Client Sample ID: CC-081129-21414-EPM-023

Lab Sample ID: 240-34230-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1260	2900		1000	ug/Kg	5	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-2

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CC-081129-21414-EPM-023

Date Collected: 02/14/14 11:05

Date Received: 02/15/14 11:15

Lab Sample ID: 240-34230-2

Matrix: Solid

Percent Solids: 96.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1000	U	1000	ug/Kg	☼	03/03/14 11:03	03/05/14 03:55	5
Aroclor-1221	1000	U	1000	ug/Kg	☼	03/03/14 11:03	03/05/14 03:55	5
Aroclor-1232	1000	U	1000	ug/Kg	☼	03/03/14 11:03	03/05/14 03:55	5
Aroclor-1242	1000	U	1000	ug/Kg	☼	03/03/14 11:03	03/05/14 03:55	5
Aroclor-1248	1000	U	1000	ug/Kg	☼	03/03/14 11:03	03/05/14 03:55	5
Aroclor-1254	1000	U	1000	ug/Kg	☼	03/03/14 11:03	03/05/14 03:55	5
Aroclor-1260	2900		1000	ug/Kg	☼	03/03/14 11:03	03/05/14 03:55	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		29 - 151	03/03/14 11:03	03/05/14 03:55	5
DCB Decachlorobiphenyl	93		14 - 163	03/03/14 11:03	03/05/14 03:55	5

TestAmerica Canton

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-2

GC Semi VOA

Prep Batch: 121214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-34230-2	CC-081129-21414-EPM-023	Total/NA	Solid	3540C	
LCS 240-121214/8-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-121214/7-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 121451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-34230-2	CC-081129-21414-EPM-023	Total/NA	Solid	8082	121214
LCS 240-121214/8-A	Lab Control Sample	Total/NA	Solid	8082	121214
MB 240-121214/7-A	Method Blank	Total/NA	Solid	8082	121214

General Chemistry

Analysis Batch: 121198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-34230-2	CC-081129-21414-EPM-023	Total/NA	Solid	Moisture	
240-34230-2 DU	CC-081129-21414-EPM-023	Total/NA	Solid	Moisture	

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-121214/7-A

Matrix: Solid

Analysis Batch: 121451

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 121214

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	33	U	33	ug/Kg		03/03/14 11:03	03/05/14 05:41	1
Aroclor-1221	33	U	33	ug/Kg		03/03/14 11:03	03/05/14 05:41	1
Aroclor-1232	33	U	33	ug/Kg		03/03/14 11:03	03/05/14 05:41	1
Aroclor-1242	33	U	33	ug/Kg		03/03/14 11:03	03/05/14 05:41	1
Aroclor-1248	33	U	33	ug/Kg		03/03/14 11:03	03/05/14 05:41	1
Aroclor-1254	33	U	33	ug/Kg		03/03/14 11:03	03/05/14 05:41	1
Aroclor-1260	33	U	33	ug/Kg		03/03/14 11:03	03/05/14 05:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		29 - 151	03/03/14 11:03	03/05/14 05:41	1
DCB Decachlorobiphenyl	55		14 - 163	03/03/14 11:03	03/05/14 05:41	1

Lab Sample ID: LCS 240-121214/8-A

Matrix: Solid

Analysis Batch: 121451

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 121214

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	333	252		ug/Kg		76	62 - 120
Aroclor-1260	333	241		ug/Kg		72	56 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	80		29 - 151
DCB Decachlorobiphenyl	67		14 - 163

TestAmerica Canton

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (29-151)	DCB2 (14-163)
240-34230-2	CC-081129-21414-EPM-023	91	93
LCS 240-121214/8-A	Lab Control Sample	80	67
MB 240-121214/7-A	Method Blank	64	55

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-2

Client Sample ID: CC-081129-21414-EPM-023
Date Collected: 02/14/14 11:05
Date Received: 02/15/14 11:15

Lab Sample ID: 240-34230-2
Matrix: Solid
Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			121214	03/03/14 11:03	CSC	TAL CAN
Total/NA	Analysis	8082		5	121451	03/05/14 03:55	LSH	TAL CAN
Total/NA	Analysis	Moisture		1	121198	03/03/14 10:01	NJE	TAL CAN

Laboratory References:
TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 81129, WCAA

TestAmerica Job ID: 240-34230-2

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14
Connecticut	State Program	1	PH-0590	12-31-14
Florida	NELAP	4	E87225	06-30-14
Georgia	State Program	4	N/A	06-30-14
Illinois	NELAP	5	200004	07-31-14
Kansas	NELAP	7	E-10336	04-01-14 *
Kentucky (UST)	State Program	4	58	06-30-14
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-14
Nevada	State Program	9	OH-000482008A	07-31-14
New Jersey	NELAP	2	OH001	06-30-14
New York	NELAP	2	10975	04-01-14
Ohio VAP	State Program	5	CL0024	10-31-15
Pennsylvania	NELAP	3	68-00340	08-31-14
Texas	NELAP	6		08-31-14
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-14
Washington	State Program	10	C971	01-12-15
West Virginia DEP	State Program	3	210	12-31-14
Wisconsin	State Program	5	999518190	08-31-14

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Canton

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-34230 Chain of Custody



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO.: **PL-11759**

PAGE 1 OF 2

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 081129- H2G				Laboratory Name: TEST AMERICA				Lab Location: NORTH CANTON, OH				SSOW ID: 081129	
Project Name: WILLOW RUN HANGAR #2				Lab Contact: DENISE HECHLER				Lab Quote No:				Cooler No:	
Project Location: UPSLAND, MI				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)	
Chemistry Contact: ANA FLEISCHER				Matrix Code (see back of COC) Grab (G) or Comp (C)				Unpreserved Hydrochloric Acid (HCl) Nitric Acid (HNO ₃) Sulfuric Acid (H ₂ SO ₄) Sodium Hydroxide (NaOH) Methanol/Water (Soil VOC) EnCores 3x5-g, 1x25-g Other: Total Containers/Sample				Carrier: FED EX	
Sampler(s): BEN HARM, ERIC NAISE												Airbill No: 8010 4751 9167	
Item				SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)				DATE (mm/dd/yy)				TIME (hh:mm)	
1				CC-081129-21414-EDM-022				21414				11:00	
2				CC-081129-21414-EDM-023				21414				11:05	
3				SO-081129-21414-EDM-024				21414				11:25	
4				S-081129-21414-EDM-025				21414				13:30	
5				S-081129-21414-EDM-026								13:35	
6				S-081129-21414-EDM-027								13:40	
7				S-081129-21414-EDM-028								13:50	
8				S-081129-21414-EDM-029								13:55	
9				S-081129-21414-EDM-030								14:10	
10				S-081129-21414-EDM-031								14:15	
11				S-081129-21414-EDM-032								14:20	
12				S-081129-21414-EDM-033								14:25	
13				S-081129-21414-EDM-034								14:35	
14				S-081129-21414-EDM-035								14:45	
15				S-081129-21414-EDM-036								14:55	
TAT Required in business days (use separate COCs for different TATs): <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input checked="" type="checkbox"/> 3 Days <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week <input type="checkbox"/> Other:				Total Number of Containers: 15				Notes/ Special Requirements: 3-DAY TAT					
All Samples in Cooler must be on COC													
RELINQUISHED BY				COMPANY				DATE				TIME	
1. BEN HARM				CRA				2/14/14				18:30	
2.													
3.													
RECEIVED BY				COMPANY				DATE				TIME	
1. [Signature]				TA/Canton				2/15/14				11:15	
2.													
3.													

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution:

WHITE - Fully Executed Copy (CRA)

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampling Crew

CRA Form: COC-10A (20110804)





**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170

Phone: (734) 453-5123

Fax: (734) 453-5201

COC NO.: **PL-11760**

PAGE 2 OF 2

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 081129-1126				Laboratory Name: TEST AMERICA				Lab Location: NORTH CANTON, OH				SSOW ID: 081129																			
Project Name: Willow Run Annual #2				Lab Contact: DENISE HEGNER				Lab Quote No:				Cooler No: 1																			
Project Location: UPSILAND, MI				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)				Carrier: FED EX																			
Chemistry Contact: BRUNN FLEISCHER				<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>Unpreserved</th> <th>Hydrochloric Acid (HCl)</th> <th>Nitric Acid (HNO₃)</th> <th>Sulfuric Acid (H₂SO₄)</th> <th>Sodium Hydroxide (NaOH)</th> <th>Methanol/Water (Soil VOC)</th> <th>EnCores 3x5-g, 1x25-g</th> <th>Other:</th> <th>Total Containers/Sample</th> </tr> <tr> <td>Matrix Code (see back of COC)</td> <td>Grab (G) or Comp (C)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				SAMPLE TYPE	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	Matrix Code (see back of COC)	Grab (G) or Comp (C)									Airbill No: 801047519167			
SAMPLE TYPE	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)					Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample																		
Matrix Code (see back of COC)	Grab (G) or Comp (C)																														
Sampler(s): BEN HONG, ERIC MAISE								Date Shipped: 2/14/14				COMMENTS/ SPECIAL INSTRUCTIONS:																			
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:															
1	S-081129-21414-FRM-037	2/14/14	15:00	ST	6	1								1	✓																
2	S-081129-21414-FRM-038	2/14/14	15:05	ST	6	1								1	✓																
3	S-081129-21414-FRM-039	2/14/14	15:07	ST	6	1								1	✓																
4	S-081129-21414-FRM-040	2/14/14	15:10	ST	6	1								1	✓																
5	S-081129-21414-FRM-041	2/14/14	15:15	ST	6	1								1	✓																
6	S-081129-21414-FRM-042	2/14/14	15:35	ST	6	1								1	✓																
7	S-081129-21414-FRM-043	2/14/14	15:38	ST	6	1								1	✓																
8	<i>Brunn Fleischer</i>																														
9																															
10																															
11																															
12																															
13																															
14																															
15																															
16																															
17																															
TAT Required in business days (use separate COCs for different TATs): <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input checked="" type="checkbox"/> 3 Days <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week <input type="checkbox"/> Other:						Total Number of Containers: 7		Notes/ Special Requirements: 3-DAY TAT																							
RELINQUISHED BY Brunn Fleischer						COMPANY CRA		DATE 2/14/14		TIME 18:30		RECEIVED BY [Signature]		COMPANY TA/Canton		DATE 2/15/14		TIME 11:5													
1.																															
2.																															
3.																															

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE - Fully Executed Copy (CRA) YELLOW - Receiving Laboratory Copy PINK - Shipper GOLDENROD - Sampling Crew CRA Form: COC-10A (20110804)



TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 34230

Client CRA Site Name _____ Cooler unpacked by [Signature]

Cooler Received on 2/15/14 Opened on 2/15/14

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box _____ Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

- Cooler temperature upon receipt
 IR GUN# A (CF +0 °C) Observed Cooler Temp. 2.6 °C Corrected Cooler Temp. 2.6 °C
 IR GUN# 4 (CF -1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN# 5 (CF +1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN# 8 (CF +1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
- Were custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
 -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were custody seals on the bottle(s)? Yes No
- Shippers' packing slip attached to the cooler(s)? Yes No
- Did custody papers accompany the sample(s)? Yes No
- Were the custody papers relinquished & signed in the appropriate place? Yes No
- Did all bottles arrive in good condition (Unbroken)? Yes No
- Could all bottle labels be reconciled with the COC? Yes No
- Were correct bottle(s) used for the test(s) indicated? Yes No
- Sufficient quantity received to perform indicated analyses? Yes No
- Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC391902
- Were VOAs on the COC? Yes No
- Were air bubbles >6 mm in any VOA vials? Yes No NA
- Was a trip blank present in the cooler(s)? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: [Signature]

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

Appendix B

Facility Inspection for Asbestos-Containing Materials

**FACILITY INSPECTION FOR
ASBESTOS-CONTAINING MATERIALS**



**HANGAR 2
SERVICE DRIVE
WILLOW RUN AIRPORT
YPSILANTI, MICHIGAN 48198**

for

**WAYNE COUNTY AIRPORT AUTHORITY
DETROIT METROPOLITAN AIRPORT
L.C. SMITH TERMINAL
DETROIT, MI 48142**

ECG PROJECT NO. A1372-445

**FACILITY INSPECTION FOR
ASBESTOS-CONTAINING MATERIALS
FOR THE DECOMMISSIONING OF
HANGAR 2
WILLOW RUN AIRPORT
YPSILANTI, MICHIGAN 481978**

PREPARED FOR: WAYNE COUNTY AIRPORT AUTHORITY
L.C. SMITH TERMINAL, MEZZANINE LEVEL
DETROIT, MICHIGAN 48242

PREPARED BY: ENVIRONMENTAL CONSULTING GROUP, INC.
7105 WARREN ROAD
ANN ARBOR, MICHIGAN 48105

Michael J. Ingels – Asbestos Building Inspector Accreditation #A8942
President

**DATE: DECEMBER 17, 2013
ECG PROJECT NO. A1372-445**

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3	LOCATIONS OF ACM
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APPENDIX E	PROFESSIONAL QUALIFICATIONS

1.0 OVERVIEW AND SCOPE OF WORK

1.1 OVERVIEW AND OBJECTIVE

Environmental Consulting Group, Inc. (ECG) performed a facility inspection of Hangar 2 at Willow Run Airport in Ypsilanti, Michigan (Site) for the Wayne County Airport Authority (Client), to identify, locate, assess and quantify asbestos-containing material (ACM) associated with the structure on the subject property.

This survey investigation and development of subsequent documentation was performed in accordance with CRA Engineering, Inc. (CRA) Contract 13-063A with WCAA for professional services in support of decommissioning and demolition of various WCAA buildings at both Detroit Metropolitan Wayne County and Willow Run Airports. ECG provided asbestos survey and assessment services as a sub-consultant to CRA. This inspection has been performed in accordance with industry standards for investigative procedures, report content and format.

Mr. Michael J. Ingels performed data review, field investigation survey work and data, and report generation from November 16 - December 17, 2006. This survey utilized existing survey data that was provided by ATC Associates, Inc.

Any information needed regarding this Project may be obtained from Mr. Michael Ingels, President, Environmental Consulting Group, Inc. at (313) 222-7050.

1.2 SCOPE OF WORK

The Scope of services provided by ECG included the following:

1. Conducted a building inspection of the facility, during regular business hours, to determine the presence, quantity, location, and condition of ACM.
2. Provided a State of Michigan certified asbestos building inspector for all on-site activities.
3. Collected bulk samples of suspect building materials (as needed). All building materials sampled for suspect friable asbestos were repaired and/or encapsulated at the point of sampling to inhibit the release of asbestos fibers.
4. Submitted bulk samples to an independent, NVLAP certified laboratory for analysis via Polarized Light Microscopy (PLM). PLM is the recognized method for determining the presence of asbestos in building materials.
5. Provided accurate quantification (square feet, linear feet, # of fittings, etc.) of ACM.

In addition, ECG provided a summary of identified ACM observed (if any) and recommended response actions to facilitate demolition of the structure per National Emission Standards for Hazardous air Pollutants (NESHAP) standards. ECG also included any additional recommendations pertaining to compliance with regulatory requirements as set forth by the EPA or OSHA.

1.3 ASBESTOS MATERIALS INTRODUCTION

Asbestos is a name given to a variety of naturally occurring fibrous silicates. The word asbestos is derived from the Greek word similarly spelled, meaning "inextinguishable", referring to the heat resistant property of the mineral. There are two types of asbestos. The first is a serpentine mineral called chrysotile and is characterized by long, soft and flexible strands that can be woven into a cloth. The second form of asbestos occurs in a group of minerals called amphiboles. Amphiboles are strong, needle-like fibers. Common forms of the Amphibole minerals are crocidolite, amosite, tremolite, anthophyllite and actinolite. Asbestos is virtually indestructible, has good fiber bonding, is abrasion-resistant, and is extremely resistant to heat and chemicals. The variety of desirable properties exhibited by asbestos made it popular for use in building materials. Exposure to asbestos fibers has been linked with severe health and respiratory disorders, based on scientific research.

In order for a material to be classified as asbestos-containing, it must contain greater than 1% asbestos by weight. ACM in buildings is principally found in three forms:

1. **Surfacing Material (SM)** - Architectural finishes which have been applied through a troweling or spray application process.
2. **Thermal System Insulation (TSI)** - Thermal barriers which have been applied at mechanical systems (i.e., around pipes, ducts, boilers and tanks).
3. **Miscellaneous Materials** - Various building materials that might include ceiling tiles, floor tiles and cementitious pipes and panels.

Asbestos containing materials in the first two categories are generally more likely to release asbestos fibers, especially if these materials are friable. **Friable** ACM are those materials, which can be crumbled, pulverized or reduced to powder by hand pressure. **Nonfriable** ACM, on the other hand, cannot be reduced to powder via hand pressure. The United States Environmental Protection Agency (EPA), under the National Emission Standard for Hazardous Air Pollutants-Asbestos (NESHAP), promulgated November 1990), has further defined nonfriable ACM into two categories or types. **Category I nonfriable ACM** means asbestos-containing packing, gaskets, resilient floor covering and asphalt roofing products containing more than 1% asbestos as determined using Polarized Light Microscopy.

Category II nonfriable ACM means any material, excluding Category I nonfriable ACM, containing more than 1% asbestos as determined using Polarized Light Microscopy that, when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure, such as cement asbestos board. All suspect materials are sampled during the survey or are assumed to be ACM. Material, which can visually be determined to be non-suspect (i.e., fibrous glass, foam rubber, etc.) by the licensed inspector are not required to be sampled.

The central purpose and subsequent result of doing an asbestos survey and subsequent inspections is to determine both the presence and condition of ACMs within the facility. This information is essential in order to formulate appropriate strategies for the management or abatement of these materials.

1.4 SURVEY LIMITATIONS

Asbestos survey services did not include inspecting above permanent ceilings (such as splined ceiling tiles, plaster, wallboard systems, etc.), behind and in between wall systems (such as, plaster, wallboard, wood wall systems, pipe chases, shafts, etc.), beneath floor systems, foundation or pads. **If suspect materials not identified in this survey are uncovered during renovation or demolition activities they should be considered presumed asbestos containing materials (PACMs) until bulk sampling and analysis proves otherwise.**

Due to safety restrictions, access to the main roof of the structure was not permitted. The ATC report indicated that the main roof construction consisted of a single-ply membrane cover. This material is typically of more recent construction and will be applied over existing roofing systems (typically built-up tar/felt). **It is recommended that sampling of original roofing materials (if present) along with any suspect caulking materials associated with the concrete panel ceiling be performed prior to demolition.**

This inspection was conducted to meet the requirements set forth in the OSHA Standards for asbestos, 29 CFR 1926.1101 and 1910.1001, regarding verification of SM or TSI as non-asbestos containing. This typically requires between 3-7 samples per homogenous area for surfacing materials (depending on square footage), 3 samples for TSI and sampling “in a manner sufficient to determine whether or not they contain asbestos” typically 1-3 samples for miscellaneous materials. (Note: If it was determined that a building material was installed after 1980 or was of insignificant quantity, only one confirmatory sample of the material was collected and analyzed).

Prior to future renovation/demolition work at the Site, ECG recommends that building materials impacted by the activity be assessed against this report. It may be necessary to have additional bulk sample testing on materials that would have required destructive testing methods or were not sampled due to their inaccessibility, or the limits of this investigation.

2.0 EXECUTIVE SUMMARY

The physical site inspection was performed November 25 – December 12, 2013. At the time of the inspection the facility was un-occupied by WCAA personnel or other tenants.

A comprehensive asbestos and hazardous materials survey of Hangar 2 was performed by ATC Associates, Inc. (ATC) in March, 2011. A review of the ATC report found the inspection, in general, to be quite thorough. ATC collected a total of two hundred and seventy-two (272) samples of suspect ACM representing 91 distinct materials. In evaluating the homogenous areas classified by ATC, ECG determined that five of these materials (boiler insulation, tank insulation, pipe joint insulation, boiler caulk/gasket material and 9" x 9" floor tile (tan, green or brown) which was found under non-asbestos 12" x 12" tiles) were classified multiple times. Therefore, ECG determined that 83 distinct materials were identified in the ATC survey. As a result, eight homogenous area numbers identified in the ATC report (#16, #58, #66, #68, #71 #73, #74, #75) are not represented in the Sample Identification Chart.

ECG collected seventeen (17) additional samples bulk samples during inspection activities to determine if suspect building materials were non-ACM and/or ACM. These samples represented six (6) new distinct materials. Remaining samples represented confirmatory samples of homogenous areas classified in the ATC report. Previous sampling along with current inspection analytical results determined that thirty-three (33) building materials are asbestos-containing. (*Refer to Section 2.3 – Sample Identification & ACM Assessment Charts*, for a list of identified ACMs, their location, quantity, condition, type and asbestos content).

2.1 BUILDING SUMMARY

Hangar 2 is located at on the southwestern end of Willow Run Airport in Ypsilanti, MI. It was originally built in the early 1940's as an airport hangar and has been occupied by various aircraft businesses. It is current owned by the Wayne County Airport Authority and has limited use as a cold storage facility at the southeast end of the hangar (Bays 1-2). The building at the time of the inspection was not heated. The Hangar bay areas have total approximate dimensions of 1,200' x 125' with the Hangar divided into eight bays of dimensions of 150' x 125'/per bay. In addition, a two-story extension runs the length of the Hangar on the southwest side housing industrial shops, office space and mechanical equipment rooms. Total square footage of the facility is approximately 200,000 square feet.

Hangar 2 is a steel frame structure with masonry construction. Exterior building materials consists of brick, concrete masonry units (CMU), cement asbestos panels and metal hangar doors. The roof is covered with an Ethylene Propylene Diane Monomer (EPDM) membrane with larger gravel coverings. Concrete floors are bare throughout the hangar, shop and mechanical areas. The majority of office space floors are covered with vinyl flooring and/or carpet. The interior finished areas of the building have various styles suspended ceiling tiles (SCT) and limited glued-on ceiling tiles affixed to sheetrock. Perimeter interior walls are CMU and/or drywall and interior partition walls are drywall.

A tunnel system can be accessed in each of the four mechanical rooms. ECG confirmed with WCAA personnel that these tunnels provided make-up air to the air handlers in each mechanical room. Tunnels run under the bay area to the northeast end of each bay where they surface at floor grating. No mechanical systems were observed in these tunnels. Heating was generated from the four mechanical rooms located in Bays 2, 3, 6 and 7. Air distribution was via a cement asbestos ducted system from air handler units located in the mechanical rooms. Bays 3 and 6 have additional exterior accessed rooms housing separate boilers as well as an exterior accessed electrical room in Bay 6.

2.2 SURVEY METHODOLOGY

ECG utilized the survey methodology developed under the Asbestos Hazard Emergency Response Act (AHERA) that was established for surveying K-12 public and private schools. Under this methodology, each room in the building is given a functional space number (F-1). Then, for each functional space, suspect materials are identified quantified and their condition noted. Each suspect material is given its own unique ‘homogeneous area’ number (H-1). Thus lists of suspect materials, or homogeneous areas, are tabulated for each room or area throughout the facility. Sample of suspect materials are then randomly collected throughout the facility.

For the purpose of reporting this data, a sample identification chart has been developed to identify each homogeneous area as being asbestos-containing or non-asbestos. A second ACM assessment chart then lists identified ACM’s, noting their location, quantity and condition. Rather than list individual functional spaces in this chart, areas are broken in sections of the building (Bay 8, Bay 8 office/shop areas, Bay 7 mechanical room, etc).

2.3 SAMPLE IDENTIFICATION AND ACM ASSESSMENT CHARTS

The charts listed on the following pages summarize materials that were sampled during this or previous investigations and lists them according to the results of the laboratory analysis. The sample identification chart lists each building material (homogeneous area), its sample number(s), description and asbestos content. The ACM assessment chart lists identified ACM’s, noting their location, quantity and condition and comments pertaining to removal to facilitate demolition of the structure. The non-asbestos identification chart lists materials sampled and identified as non-asbestos and their location. All materials identified as asbestos-containing contain chrysotile asbestos unless specified otherwise.

SAMPLE IDENTIFICATION CHART

HOMO AREA	SAMPLE ID	DESCRIPTION	CONTENT
ASBESTOS-CONTAINING MATERIALS			
2	2-PI-A-G	Straight pipe insulation – 2” – 8” – TSI (friable)	ND – 15% Chrysotile
4	4-FT-A-H	9” x 9” floor tile (brown) – MM (nonfriable)	10% Chrysotile
6	6-PJ-AC 16-PJ-A	Pipe joint insulation – 2” – 8” – TSI (friable)	50%-60% Chrysotile
11	11-FT-A-D	9” x 9” floor tile (green w/ white streaks) – MM (nonfriable)	10% Chrysotile
14	14-PI-A-C	Straight pipe hanger insulation – 6” – 8” – TSI (friable)	10% Chrysotile
17	17-TP-A-C	Transite Panel – MM (nonfriable)	40% Chrysotile
18	18-SU-A	White sink undercoating – MM (nonfriable)	20% Chrysotile
19	19-FT-A-C	12” x 12” Floor tile (off white w/ black flecks) – MM (nonfriable)	2% Chrysotile
29	29-WPM-A	Weatherproofing material (tar only) – MM	10% Chrysotile
30	30-WG-A-F 445-04 (ECG)	Interior window glaze – MM	ND - 2% Chrysotile
37	37-WC-A-C	Interior window caulk – MM	10% Chrysotile
38	38-FT-A-C	9” x 9” floor tile (tan w/ black streaks) – MM (nonfriable) (Note: under 12” x 12” non-asbestos tiles (homo areas #65/#67))	10% Chrysotile
40	40-TD-A-G	Transite duct – MM (nonfriable)	40% Chrysotile
41	41-FT-A-C	9” x 9” floor tile (black w/ red & white streaks) – MM (nonfriable)	10% Chrysotile
46	46-BI-A-C 75-BT-A	Boiler insulation – TSI (friable)	60% - 80% Chrysotile
47	47-TK-A-C 74-TK-A	Tank insulation (hot water) – TSI (friable)	50% - 80% Chrysotile
48	48-PI-A-C	Boiler pipe insulation (hot water) – TSI (friable)	60% Chrysotile
49	49-PJ-A-C	Boiler pipe joint insulation (hot water) – TSI (friable)	30% Chrysotile
52	52-BC-A-C 58-BC-A-C 73-BC-A	Boiler caulk/gasket (mechanical rooms) – MM (nonfriable)	10%/80% Chrysotile
53	53-TT-A-C	Black table top – MM (nonfriable)	30% Chrysotile
55	55-CPS-A-C	Concrete pipe sealant – MM (nonfriable)	15% Chrysotile
57	57-FC-A-C	Fan unit caulk – MM (nonfriable)	15% Chrysotile
62	62-FT-A	Floor tile under 12” x 12” Floor tile (beige w/ dark spots) – MM (nonfriable)	10% Chrysotile

HOMO AREA	SAMPLE ID	DESCRIPTION	CONTENT
76	76-WG-A-C	Exterior window glaze – MM (nonfriable)	2% Chrysotile
81	81-BP-A-C	Boiler plate mud (bay 6) – TSI (friable)	10% Chrysotile
84	84-PI-A	Fuel pipe wrap insulation – TSI (friable)	60% chrysotile
86	86-RF-A-C	Roof flashing – MM (nonfriable)	ND-10% chrysotile
87	87-ACT-A-C	Air conditioning tar (roof) – MM (nonfriable)	10% chrysotile
88	88-EBC-A-C	Exterior building caulk (lower roof) – MM (nonfriable)	15% chrysotile
90	90-EWG-A-C 445—06 (ECG)	Exterior window glaze – MM (nonfriable)	10% chrysotile
91	91-EWC-A-C 445-05 (ECG)	Exterior window caulk – MM (nonfriable)	ND-2% chrysotile
94	445-08, 09	Fire door core (mud material) – MM (friable but incased in nonfriable frame)	ND-50% chrysotile
96	445-12-14	Interior Boiler Insulation (Bay 6 Exterior Boiler Room) – TSI (friable)	15% chrysotile
NON ASBESTOS-CONTAINING MATERIALS			
1	CP-A-D	2' x 2' Rough textured ceiling panel – MM	ND
3	3-WB-A-C	Wallboard - MM	ND
5	5-BB-A-C	Brown baseboard w/ adhesive - MM	ND
7	7-CP-A-C	2' x 4' small fissured ceiling panel – MM	ND
8	8-SD-A-D	Stall divider insulation – MM	ND
9	9-PI-A-D	Straight pipe insulation – 2" – 4" – TSI (friable)	ND
10	10-FT-A-C	12" x 12" Floor tile (Tan w/ brown & beige) w/ mastic – MM	ND/ND
12	12-DS-A-J	Drywall system (sheetrock/tape/mud)- MM	ND
13	13-FT-A-C	12" x 12" Floor tile (Beige w/ white/tan flakes) w/ mastic – MM	ND/ND
15	15-CP-A-C	2' x 4' ceiling panel (tiny fissure/pinhole) – MM	ND
20	20-CP-A-C	2' x 4' ceiling panel (pinhole/gash) – MM	ND
21	21-CP-A-C	2' x 4' ceiling panel (short fissured/big pinhole) – MM	ND
22	22-CP-A-D	2' x 4' ceiling panel (large fissured/pinhole) – MM	ND
23	23-FBC-A-C	Fiberglass batting covering – MM	ND
24	24-PI-A-B	Pipe wrap on fiberglass – TSI	ND
25	25-FC-A-C	Floor covering – MM	ND
26	26-FWB-A-E	Fiber wall board – MM	ND
27	27-FT-A-C	12" x 12" Floor tile (gray w/ black streaks) – MM	ND

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HOMO AREA	SAMPLE ID	DESCRIPTION	CONTENT
28	28-CP-A-D	2' x 4' ceiling panel (medium fissured/pinhole) – MM	ND
31	31-FT-A-C	12" x 12" Floor tile (tan w/ Br. streaks) – MM Homogeneous Area 38	ND
32	32-CP-A-C	2' x 2' ceiling panel (rough texture w/ foil) – MM	ND
33	33-BB-A-C	Black/gray baseboard/Adhesive – MM	ND/ND
34	34-FWB-A-C	Fibrous wallboard – MM	ND
35	35-FD-A 445-10 (ECG)	Fire door insulation (paper) – MM	ND
36	36-CP-A-C	2' x 4' ceiling panel (large fissure/pinhole) – MM	ND
39	39-CT-A-C	1' x 1' ceiling tile (irregular dot) w/ gluepod – MM	ND/ND
42	42-FT-A-C	12" x 12" Floor tile (brown design pattern) w/ mastic – MM	ND
43	43-LN-A-C	Linoleum flooring (brown mosaic) – MM	ND
44	44-GK-A-D	Fan unit gasket – MM	ND
45	45-FB-A-C	Firebrick (bay 7) – MM	ND
50	50-RB-A-C	Refractory brick (old coal boiler , bay 7) – MM	ND
51	51-FB-A-C	Fire brick (old coal boiler, bay 7) - MM	ND
54	54-CPC-A-C	Concrete pipe coating – MM	ND
56	56-ESB-A-C	Exhaust stack brick – MM	ND
59	59-FB-A-C	Firebrick (bay 6) – MM	ND
60	60-BC-A-C	Boiler burner refractory (bay 6) – MMM	ND
61	61-FT-A-C	12" x 12" Floor tile (beige w/ dark spots) – MM	ND
63	63-CP-A-C	2' x 2' ceiling panel (light rough texture) – MM	ND
64	64-CT-A-C	1' x 1' ceiling tile w/ gluepod (white) – MM	ND/ND
65	65-FT-A-C	12" x 12" Floor tile (light beige) w/ mastic – MM	ND/ND
67	67-FT-A-C	12" x 12" Floor tile (maroon) – MM	ND
69	69-FT-A-C	12" x 12" Floor tile (black w/ white streaks) w/ mastic – MM	ND/ND
70	70-FT-A	Floor tile under 12" x 12" Floor tile (black w/ white streaks) – MM	ND
72	72-FT-A	Floor tile under 12" x 12" Floor tile (black) w/ mastic – MM	ND/ND
77	77-SC-A-B	Floor seam caulk – MM	ND
78	78-Ft-A-C	12" x 12" Floor tile (off white) – MM	ND
79	79-CP-A-C	2' x 4' ceiling panel (scattered pinhole/short fissures) – MM	ND
80	80-GK-A-C	Boiler rope gasket (bay 6) – MM	ND
82	82-PJ-A	6" – 8" pipe joint w/ w/ fiberglass (bay 6) – TSI	ND
83	83-PJ-A	2" – 4" pipe joint w/ w/ fiberglass (bay 6) – TSI	ND

HOMO AREA	SAMPLE ID	DESCRIPTION	CONTENT
85	85-RM-A-C	Roof material – MM	ND
89	89-EWC-A-C	Exterior window caulk (middle roof) – MM	ND
92	445-01-03 (ECG)	Concrete ceiling deck (hangar area) – MM	ND
93	445-07 (ECG)	1' x 1' fiberboard ceiling tile (uniform hole) – MM	ND
95	445-11 (ECG)	9" x 9" floor tile (dirty beige) w/ black mastic – MM (trace amounts Bay 8 hanger floor)	.5% chrysotile (pointcount)/ND
97	445-15-17 (ECG)	Exterior window caulk (Dk. Brown, Bay 8) – MM	ND
	All floor tile samples taken	Mastic adhesive associated with all floor tile applications – MM	ND

All sample ID's listed are samples from the ATC report unless referenced as ECG samples.

ACM ASSESSMENT CHART

BAY #	DESCRIPTION	LOCATION	QUANTITY	CONDITION	COMMENTS
1	Transite Duct	1-4, 1-5, 1-6, 1-8, 1-9, 1-10	~5,500 square feet	Good - Fair	Cat. II - NF – Remove
1	Transite Panels	Hanger Exterior	~16,625 square feet	Fair	Cat. II - NF – Remove
1	Straight Pipe Joint & Hanger Insulation (joint/hanger quantities included in linear total)) 2” – 8”	1-2, 1-4, 1-5, 1-6, 1-7, 1-10 Hangar	~800’ linear ** ~150’ linear + 12 RC fittings (12”)	Fair/isolated poor	Friable - Remove
1	9” x 9” floor tile (brown), (green) (black w/ red/white streaks), (tan w/ black streaks)	1-4 1-5, 1-6 1-9, 1-9 (2), 1-10 1-1	~1,100 square feet ~1,800 square feet ~750 square feet ~1,200 square feet	Good – Fair (water damage noted in many areas). Majority of tile on the second floor is under carpet squares.	Cat. I NF – not required for removal if maintained in nonfriable state. Must be removed if concrete is to be salvaged
1	Interior window pane caulk Interior window frame glaze Exterior window pane caulk Exterior window frame caulk Exterior window caulk/glaze	1-3 through 1-6, 1-9 1-3 through 1-6, 1-9 1-3 through 1-6, 1-9 1-3 through 1-6, 1-9 Exterior – Hangar doors	246 windows ~1,424’ linear x .5 “ * 10 frame units ~400’ linear x .5” 246 windows ~1,424’ linear x .5 “ * 10 frame units ~400’ linear x .5” ~900’ linear x .5” *	Fair/Poor or missing Fair Poor or missing Fair Poor or missing	Cat. II NF – material could become friable during demolition - Remove
2	Transite Duct	2-18, 2-19, 2-20, 2-23, 2-24, 2-25, 2-26, 2-26 (BR)	~10,250 square feet	Good - Fair	Cat. II - NF – Remove
2	Transite Panels	Hanger	~10,600 square feet	Fair	(Cat. II - NF) – Remove
2	Straight Pipe Joint & Hanger Insulation (joint/hanger quantities included in linear total) 2” – 8” & 2” – 12” in boiler room	2-3, 2-6,2-8, 2-11,2-16, 2-17,2-24, 2-25, 2-26,) Hangar 2-26 (BR) - Boiler Room	~900’ linear ** ~250’ linear + 75 fittings ~150’ linear	Fair/isolated poor Fair/isolated poor Fair/isolated poor	Friable - Remove
2	9” x 9” floor tile (brown) (green)	2-4, 2-6, 2-7, 2-8,2-9, 2-10, 2-11, 2-12, 2-13, 2-14, 2-15, 2-16, 2-17, 2-20, 2-21,2-23,2-26	~9,600 square feet	Good – Fair (water damage noted in many areas). Under 12” x 12” non-asbestos tile or raised computer floor on 1 st floor and carpet squares on 2 nd floor.	Cat. I NF – not required for removal if maintained in nonfriable state. Must be removed if concrete is to be salvaged
2	Interior window pane caulk Interior window frame glaze Exterior window pane caulk	2-4, 2-11, 2-13, 2-26 2-4, 2-11, 2-13, 2-26 2-4, 2-11, 2-13, 2-26	110 windows ~1,000’ linear x .5 “ * 10 frame units ~352’ linear x .5” 110 windows ~1,000’ linear x .5 “ *	Fair/Poor or missing Fair Poor or missing	Cat. II NF – material could become friable during demolition - Remove

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BAY #	DESCRIPTION	LOCATION	QUANTITY	CONDITION	COMMENTS
	Exterior window frame caulk Exterior window caulk/glaze	2-4, 2-11, 2-13, 2-26 Exterior – Hangar doors	10 frame units ~352' linear x .5" ~900' linear x .5" *	Fair Poor or missing	
2	Boiler Insulation	2-26 – Boiler Room	~150 square feet	Fair	Friable - Remove
2	Tank Insulation	2-26 - Boiler Room	~200 square feet	Fair	Friable - Remove
2	Boiler caulk/gasket (coal boiler)	2-26 - Boiler Room	~150 linear feet	Fair/Poor	Friable - Remove
2	Fan unit caulk	2-26 - Boiler Room	~400 linear feet	Poor	Cat. II NF – material could become friable during demolition - Remove
2	Concrete tunnel sealant	2-26 - Boiler Room tunnel	~600 linear feet	Fair	Cat. II NF – material could become friable during demolition - Remove
3	Transite Duct	3-11, 3-12,3-13,3-14,	~11,650 square feet	Fair	Cat. II NF – material could become friable during demolition - Remove
3	Transite Panels	Hanger	~10,600 square feet	Fair	Cat. II NF – material could become friable during demolition - Remove
3	Straight Pipe Joint & Hanger Insulation (joint/hanger quantities included in linear total) 2" – 8"	3-1, 3-2, 3-3,3-4,3-5,3-8, 3-11, 3-12,3-13, 3-14, Hangar Boiler Room Exterior boiler room	~1,000' linear ** ~250' linear + 100 fittings 1- 12" valve 25fittings – 6"-12" 10 fittings – 2" 4"	Fair/isolated poor Fair	Friable - Remove
3	9" x 9" floor tile (brown) 9" x 9" Tan Floor Tile (under 12" x 12" Floor Tiles (light beige & maroon) in 3-12 &3-13)	3-2, 3-3,3-4, 3-5, 3-6,3-7, 3-8, 3-9, 3-10, 3-12, 3-13	~4,500 square feet ~3,500 square feet	Good – Fair (water damage noted in many areas). Under 12" x 12" non-asbestos tile on 1 st floor and carpet squares on 2 nd floor	Cat. I NF – not required for removal if maintained in nonfriable state. Must be removed if concrete is to be salvaged
3	Interior window pane caulk Interior window frame glaze Exterior window pane caulk Exterior window frame caulk Exterior window caulk/glaze	3-2,3-3, 3-5, 3-8,3-12 3-2,3-3, 3-5, 3-8,3-12 3-2,3-3, 3-5, 3-8,3-12 3-2,3-3, 3-5, 3-8,3-12 Exterior – Hangar doors	136 windows ~1,416' linear x .5 " * 11 frame units ~416' linear x .5" 136 windows ~1,416' linear x .5 " * 11 frame units ~416' linear x .5" ~900 linear x .5" *	Fair/Poor or missing Fair Poor or missing Fair Poor or missing	Cat. II NF – material could become friable during demolition - Remove

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BAY #	DESCRIPTION	LOCATION	QUANTITY	CONDITION	COMMENTS
3	Fire Door Core (mud material)	Bay 3 – 1 st floor, east exit corridor/stairwell	3 doors	Good-Fair	Friable but encased in door frame – Remove
3	Boiler caulk/gasket (coal boiler)	3-14 - Boiler Room	~150 linear feet	Fair	Friable - Remove
3	Fan unit caulk	3-14 - Boiler Room	~400 linear feet	Poor	Cat. II NF – material could become friable during demolition - Remove
3	Concrete tunnel sealant	3-14 - Boiler Room	~600 linear feet	Fair	Cat. II NF – material is like roof flashing. Should not become friable during demo.
3	Boiler wall insulation (under metal jacket)	Exterior entry boiler room	12' x 4.5' x 3' ~150 square feet	Fair	Friable - Remove
3	Boiler Plate Mud	Exterior entry boiler room	12' x 4.5' ~110 square feet	Fair	Friable - Remove
4	Transite Duct	4-15, 4-16,4-17,4-19,4-20	~7,500 square feet	Fair	Cat. II NF – material could become friable during demolition - Remove
4	Transite Panels	Hanger	~10,600 square feet	Fair	Cat. II NF – material could become friable during demolition - Remove
4	Straight Pipe Joint & Hanger Insulation (joint/hanger quantities included in linear total)) 2" – 8"	4-3,4-5,4-7,4-8,4-9,4-12, 4-14, 4-15, 4-16,4-17	~750' linear **	Fair/isolated poor	Friable - Remove
		Hanger	~200' linear + 100 fittings	Fair	
4	9" x 9" floor tile (brown)	4-1, 4-2,4-3,4-4,4-7,4-8,4-9,4-10, 4-11,4-12, 4-13, 4-14	~5,000 square feet	Good – Fair (water damage noted in many areas). Majority of tile on the second floor is under carpet/squares.	Cat. I NF – not required for removal if maintained in nonfriable state. Must be removed if concrete is to be salvaged
	9" x 9" floor tile (tan)	4-19, 4-20	~800 square feet		
4	Fire Door Core (mud material)	Bay 4 – 2 nd floor, west stairwell	1 door	Good-Fair	Friable but encased in door frame – Remove
4	Interior window pane caulk	4-3,4-7,4-9, 4-11,4-13,4-14,4-15, 4-16	144 windows ~1,520' linear x .5 " *	Fair/Poor or missing	Cat. II NF – material could become friable during demolition - Remove
	Interior window frame glaze	4-3,4-7,4-9, 4-11,4-13,4-14,4-15, 4-16	11 frame units ~434' linear x .5"	Fair	
	Exterior window pane caulk	4-3,4-7,4-9, 4-11,4-13,4-14,4-15, 4-16	144 windows ~1,520' linear x .5 " *	Poor or missing	
	Exterior window frame caulk	4-3,4-7,4-9, 4-11,4-13,4-14,4-15, 4-16	11 frame units ~434' linear x .5"	Fair	
	Exterior window caulk/glaze	Exterior – Hanger doors	~900 linear x .5" *	Poor or missing	

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BAY #	DESCRIPTION	LOCATION	QUANTITY	CONDITION	COMMENTS
4	Weatherproofing Tar	4-3	30 SF	Fair	Cat I NF – tar material. Should not become friable during demolition
5	Transite Duct	5-4, 5-6, 5-7,5-8,5-9,5-10, 5-11,5-12, 5-13,5-14	~7,950 square feet	Fair	Cat. II NF – material could become friable during demolition - Remove
5	Transite Panels	Hanger	~10,600 square feet	Fair	Cat. II NF – material could become friable during demolition - Remove
5	Straight Pipe Joint & Hanger Insulation (joint/hanger quantities included in linear total) 2” – 8”	5-1, 5-2, 5-4, 5-5,5-6,5-7,5-8,5-9,5-10, 5-11, 5-12, 5-13, 5-14 Hanger	~1,225’ linear ** ~200’ linear + 100 fittings	Fair/isolated poor Fair	Friable - Remove
5	9” x 9” floor tile (brown) 9” x 9” floor tile (tan) Floor tile under 12” x 12” beige w/ dark spot	5-1, 5-3, 5-10 5-7, Maintenance office 5-14	~1,500 square feet ~1,120 square feet ~1,150 square feet	Good – Fair (water damage noted in many areas). Majority of tile on the second floor is under carpet.	Cat. I NF – not required for removal if maintained in nonfriable state. Must be removed if concrete is to be salvaged.
5	Interior window pane caulk Interior window frame glaze Exterior window pane caulk Exterior window frame caulk Exterior window caulk/glaze	5-1,5-3, 5-4, 5-6, 5-7, 5-8, 5-9, 5-10, 5-14 5-1,5-3, 5-4, 5-6, 5-7, 5-8, 5-9, 5-10, 5-14 5-1,5-3, 5-4, 5-6, 5-7, 5-8, 5-9, 5-10, 5-14 5-1,5-3, 5-4, 5-6, 5-7, 5-8, 5-9, 5-10, 5-14 Exterior – Hangar doors	192 windows ~1,950’ linear x .5 “ * 17 frame units ~600’ linear x .5” 192 windows ~1,950’ linear x .5 “ * 17 frame units ~600’ linear x .5” ~900 linear x .5” *	Fair/Poor or missing Fair Poor or missing Fair Poor or missing	Cat. II NF – material could become friable during demolition - Remove
6	Transite Duct	6-11,6-12,6-13,6-14, 6-15, 6-16	~11,350 square feet	Fair	Cat. II NF – material could become friable during demolition – Remove
6	Transite Panels	Hanger	~10,600 square feet	Fair	Cat. II NF – material could become friable during demolition - Remove
6	Straight Pipe Joint & Hanger Insulation (joint/hanger quantities included in linear total) 2” – 8”	6-1,6-2, 6-5, 6-11,6-12,6-13, 6-14,6-15, 6-16 Hanger Boiler Room Exterior boiler room	~900’ linear ** ~250’ linear + 200 fittings ** 1 – 12” valve 12fittings – 6”-12” 20 fittings – 2” 4”	Fair/isolated poor Fair	Friable - Remove

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BAY #	DESCRIPTION	LOCATION	QUANTITY	CONDITION	COMMENTS
6	9" x 9" floor tile (brown)	6-2, 6-3,6-6, 6-7,6-8	~3,000 square feet	Good – Fair (water damage noted in many areas). Majority of tile on the second floor is under carpet.	Cat. I NF – not required for removal if maintained in nonfriable state. Must be removed if concrete is to be salvaged
6	Interior window pane caulk Interior window frame glaze Exterior window pane caulk Exterior window frame caulk Exterior window caulk/glaze	6-2, 6-3,6-10,6-14 6-2, 6-3,6-10,6-14 6-2, 6-3,6-10,6-14 6-2, 6-3,6-10,6-14 Exterior – Hangar doors	104 windows ~1,096' linear x .5" * 8 frame units ~314' linear x .5" 104 windows ~1,096' linear x .5" * 8 frame units ~314' linear x .5" *~900 linear x .5" *	Fair/Poor or missing Fair Poor or missing Fair Poor or missing	Cat. II NF – material could become friable during demolition - Remove
6	Black table top	6-14	45 square feet	Good	Cat. II NF – material could become friable during demolition - Remove
6	Boiler caulk/gasket (coal boiler)	6-12 - Boiler Room	~150 linear feet	Fair	Friable - Remove
6	Fan unit caulk	6-12 - Boiler Room	~400 linear feet	Poor	Cat. II NF – material could become friable during demolition - Remove
6	Concrete tunnel sealant	6-12 - Boiler Room tunnel	~600 linear feet	Fair	Cat. II NF – material could become friable during demolition - Remove
6	Boiler Plate Mud	Exterior entry boiler room	5' x 7' ~75 square feet	Fair	Friable - Remove
6	Fuel Pipe Wrap	Exterior – outside meter room	8" - 4 linear feet	Fair	Friable - Remove
7	Transite Duct	7-1, 7-2,7-3,7-4,7-14(2)	~8,230 square feet	Good - Fair	Cat. II - NF – Remove
7	Transite Panels	Hanger	~10,600 square feet	Fair	Cat. II - NF – Remove
7	Straight Pipe Joint & Hanger Insulation (joint/hanger quantities included in linear total) 2" – 8" 2" – 12"	7-1, 7-2, 7-5, 7-9,7-10, 7-11, 7-14,7-14, 7-14(2) Hangar 2-26 (BR) - Boiler Room	~1,250' linear ** ~200' linear + 75 fittings ** ~150' linear	Fair/isolated poor Fair/isolated poor Fair/isolated poor	Friable - Remove
7	9" x 9" floor tile (brown) 12" x 12" floor tile (off white w/ black streaks)	7-2 7-4, 7-5, 7-6, 7-7, 7-0, 7-13	~600 square feet ~2,850 square feet	Good – Fair (water damage noted in many areas). Some of tile on the second floor is under carpet.	Cat. I NF – not required for removal if maintained in nonfriable state. Must be removed if concrete is to be salvaged.

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BAY #	DESCRIPTION	LOCATION	QUANTITY	CONDITION	COMMENTS
7	Interior window pane caulk Interior window frame glaze Exterior window pane caulk Exterior window frame caulk Exterior window caulk/glaze	7-2, 7-6, 7-8,7-11,7-12 7-2, 7-6, 7-8,7-11,7-12 7-2, 7-6, 7-8,7-11,7-12 7-2, 7-6, 7-8,7-11,7-12 Exterior – Hangar doors	108 windows ~1,000' linear x .5 “ * 10 frame units ~352' linear x .5” 108 windows ~1,000' linear x .5 “ * 10 frame units ~352' linear x .5” ~900' linear x .5” *	Fair/Poor or missing Fair Poor or missing Fair Poor or missing	Cat. II NF – material could become friable during demolition - Remove
7	Boiler Insulation	7-2 – Boiler Room	~150 square feet	Fair	Friable - Remove
7	Tank Insulation	7-2 - Boiler Room	~200 square feet	Fair	Friable - Remove
7	Boiler caulk/gasket (coal boiler)	7-2 - Boiler Room	~150 linear feet	Fair/Poor	Friable - Remove
7	Fan unit caulk	7-2 - Boiler Room	~400 linear feet	Poor	Cat. II NF – material could become friable during demolition - Remove
7	Concrete tunnel sealant	7-2- Boiler Room tunnel	~600 linear feet	Fair	Cat. II NF – material could become friable during demolition - Remove
8	Transite Duct	8-1, 8-2, 8-4,8-5,8-6, 8-7,8-8,8-9,8-10,8-11,8-13, Above 8-15,8-31	~8,550 square feet	Good - Fair	Cat. II - NF – Remove
8	Transite Panels	Hanger Exterior	~16,625 square feet	Fair	Cat. II - NF – Remove
8	Straight Pipe Joint & Hanger Insulation (joint/hanger quantities included in linear total)	8-1, 8-2, 8-4,8-5,8-6, 8-7,8-8,8-9,8-10,8-11,8-13, Above 8-15,8-31 Hangar	~850' linear ** ~150' linear	Fair/isolated poor	Friable - Remove
8	9” x 9” floor tile (brown) 9” x 9” floor tile (green)	8-1,8-4,8-5, 8-9, 8-10, 8-11 8-8	~4,200 square feet ~130 square feet	Good – Fair (water damage noted in many areas). Majority of tile on the second floor is under carpet.	Cat. I NF – not required for removal if maintained in nonfriable state. Must be removed if concrete is to be salvaged
8	Sink undercoating (white)	8-15	1 sink ~ 3 square feet	Good	Cat. II NF – material could become friable during demolition - Remove
8	Interior window pane caulk Interior window frame glaze Exterior window pane caulk Exterior window frame caulk Exterior window caulk/glaze	NW face 1-3 through 1-6, 1-9 1-3 through 1-6, 1-9 1-3 through 1-6, 1-9 Exterior – Hangar doors	150 windows ~400' linear x .5 “ * 1 frame unit ~47' linear x .5” 150 windows ~400' linear x .5 “ * 1 frame unit ~47' linear x .5” ~900' linear x .5” *	Fair/Poor or missing Fair Poor or missing Fair Poor or missing	Cat. II NF – material could become friable during demolition - Remove
EXT	Roof Flashing-Lower Roof above Boiler Rooms	2-26, 3-14, 6-12, 7-2	800 LF	Fair	Cat. I NF – not required for removal if maintained in nonfriable state

BAY #	DESCRIPTION	LOCATION	QUANTITY	CONDITION	COMMENTS
EXT	A/C Unit Tar	Middle Roof top	18 Units	Fair	Cat. I NF – not required for removal if maintained in nonfriable state
EXT	Exterior Building Caulk- Lower Roof above Boiler Rooms Exterior window caulk Exterior window frame caulk	2-26, 3-14, 6-12, 7-2 2-26, 3-14, 6-12, 7-2	800 linear feet 24 windows ~420' linear x .5 " * 24 frame unit ~420' linear x .5"	Fair	Cat. II NF – material could become friable during demolition - Remove
EXT	Transition/frame caulk	Around exterior door frames (standard and roll-up) & between some bays	750 linear feet x .5"	Fair	Cat. II NF – material could become friable during demolition - Remove

All asbestos materials are chrysotile asbestos unless otherwise noted.

Refer to *Appendix A3 - Locations of ACM*, for a graphic illustration depicting locations of identified ACM.

- * Both interior and exterior caulking materials have delaminated off the window substrate in many areas.
- ** Friable TSI may be present between interior component walls where observed mechanical piping enter/exit a wall/ceiling. Additional TSI should be assumed present in sink chases and/or bathroom chases that were not accessible without structural demolition. Careful, selective demolition of walls should be conducted at these locations to determine if ACM is present. If TSI is present, it should be removed by a licensed asbestos abatement contractor per applicable regulations, prior to demolition activities.

NON ASBESTOS IDENTIFICATION CHART

BAY #	MATERIAL	LOCATION	RESULT
1	Drywall	1-3, 1-4,1-5, 1-6, 1-8, 1-9	ND
1	Wallboard	1-3, 1-4,1-5, 1-6, 1-8, 1-9	ND
1	12" x 12" Irregular Dot Ceiling Tile/Glue Pod/Backer	1-6	ND/ND
1	2' x 4' Medium Fissured Ceiling Panel	1-4,1-5, 1-8, Hangar Portable Offices	ND
1	2' x 4' Large Fissured Ceiling Panel	1-3, 1-9	ND
1	Black/Gray Baseboard	1-4, 1-6, Hangar Portable offices	ND
1	Stall Divider Insulation	1-3	ND
1	12" x 12" Black with White Streak Floor Tile & Mastic	Hangar Portable Offices, Stair landing	ND
1	12" x 12" Tan/Beige Floor Tile & Mastic	1-3,1-8	ND
1	Floor Seam Caulk	Hangar	ND
2	Drywall	2-1, 2-2, 2-4,2-5, 2-6,2-7,2-8, 2-9, 2-10,2-11, 2-12, 2-13,2-14,2-15, 2-16, 2-17, 2-20, 2-21, 2-22, 2-23, 2-24, 2-26	ND
2	Wallboard	2-1, 2-2,2-3, 2-4,2-5, 2-6,2-7,2-8, 2-9, 2-10,2-11, 2-12, 2-13,2-14, 2-15, 2-16, 2-17, 2-20, 2-21, 2-22, 2-23, 2-24, 2-26	ND
2	2' x 4' Medium Fissured Ceiling Panel	2-1,2-4, 2-8, 2-20, 2-26	ND
2	2' x 4' Large Fissured Ceiling Panel	2-5,2-6,2-7,2-9,2-10,2-11,2-12,2-13, 2-14, 2-15, 2-16,2-17,2-18,2-23,2-24	ND
2	Black/Gray Baseboard	2-4,2-5,2-6, 2-7,2-8, 2-9, 2-10,2-11, 2-12, 2-13,2-14, 2-15, 2-16, 2-20, 2-23, 2-24,2-26	ND
2	Stall Divider Insulation	2-2	ND
2	12" x 12" Black with White Streak Floor Tile & Mastic	2-24	ND
2	12" x 12" Tan/Beige Floor Tile & Mastic	2-4,2-5	ND
2	Floor Seam Caulk	Hangar	ND
2	Fan Unit Gasket	2-19	ND
2	Firebrick	2-26 (Boiler Room)	ND
2	Refractory	2-26 (Boiler Room)	ND
3	Drywall	3-1, 3-2, 3-3, 3-4, 3-5, 3-6, 3-7, 3-8, 3-9, 3-10,3-12,3-13	ND
3	Wallboard	3-1, 3-2, 3-3, 3-4, 3-5, 3-6, 3-7, 3-8, 3-9, 3-10,3-12,3-13	ND
3	2' x 4' Medium Fissured	3-1, 3-2, 3-3, 3-4, 3-5, 3-6, 3-7, 3-8, 3-9, 3-10,3-12	ND

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	Ceiling Panel		
3	Brown Baseboard	3-1, 3-2, 3-3, 3-4, 3-6, 3-7, 3-9, 3-10,3-12,3-13	ND
3	Fire Door Insulation	3-1	ND
3	Floor Seam Caulk	Hangar	ND
3	Fan Unit gasket	3-14	ND
3	Firebrick	3-14	ND
3	Refractory	3-14	ND
4	Drywall	4-1, 4-2, 4-3,4-4, 4-5, 4-6, 4-7, 4-8,4-9, 4-10, 4-11,4-12, 4-13,4-14,4-15, 4-19, 4-20	ND
4	Wallboard	4-1, 4-2, 4-3,4-4, 4-5, 4-6, 4-7, 4-8,4-9, 4-10,4- 11,4-12, 4-13,4-14,4-15, 4-19, 4-20	ND
4	2' x 4' Medium Fissured Ceiling Panel	4-1, 4-2, 4-3,4-4, 4-6, 4-7, 4-8,4-9, 4-10,4-11, 4-12, 4-14,4-15, 4-19	ND
4	2' x 4' Long Fissured Ceiling Panel	4-5,4-20	ND
4	2' x 2' Rough Textured Ceiling Panel	4-13	ND
4	12" x 12" White Ceiling Tile/Glue Pod/Backer	4-20	ND/ND
4	Brown Baseboard	4-1, 4-2, 4-3,4-4, 4-5, 4-6, 4-7, 4-8,4-9, 4-10,4-11,4-12, 4-15, 4-19, 4-20	ND
4	Gray Baseboard	4-13, 4-14	ND
4	12" x 12" Beige/Tan Floor Tile & Mastic	4-5	ND
4	Floor Seam Caulk	Hangar	ND
5	Drywall	5-1, 5-2, 5-3,5-5, 5-7, 5-8	ND
5	Wallboard	5-1, 5-2, 5-3,5-5, 5-7, 5-8	ND
5	2' x 4' Medium Fissured Ceiling Panel	5-1, 5-2, 5-3,5-4	ND
5	2' x 4' Long Fissured Ceiling Panel	5-5, 5-7,5-14	ND
5	2' x 2' Rough Textured Ceiling Panel	5-8	ND
5	12" x 12" Uniformed Holed Ceiling Tile (fiberboard)	5-6	ND
5	Brown Baseboard	5-3,5-5, 5-7,	ND
5	12" x 12" Gray with Black Streak Floor Tile & Mastic	5-3	ND
5	Wallboard	5-1, 5-2, 5-3,5-5, 5-7, 5-8	ND
5	2' x 4' Medium Fissured Ceiling Panel	5-1, 5-2, 5-3,5-4	ND
5	2' x 4' Long Fissured Ceiling Panel	5-5, 5-7,5-14	ND
5	2' x 2' Rough Textured Ceiling Panel	5-8	ND
5	Brown Baseboard	5-3,5-5, 5-7	ND
5	12" x 12" Off White with Tan Splotch Floor Tile & Mastic	Bay Maintenance Office	ND
5	Floor Seam caulk	Bay	ND

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6	Drywall	6-1, 6-4, 6-5, 6-6, 6-8, 6-9, 6-10	ND
6	Wallboard	6-1, 6-3, 6-4, 6-5, 6-6, 6-8, 6-9, 6-10	ND
6	2' x 4' Medium Fissured Ceiling Panel	6-5, 6-7, 6-8, 6-9, 6-10, 6-14	ND
6	Pipe Wrap	6-1, 6-5	ND
6	Stall Divider Insulation	6-1, 6-5	ND
6	2' x 4' Long Fissured Ceiling Panel	6-6	ND
6	Floor Covering	6-3	ND
6	Fan Unit Gasket	6-12	ND
6	Firebrick	6-12	ND
6	Refractory	6-12	ND
6	Exhaust Stack Brick/Mortar	6-12	ND
6	Floor Seam Caulk	Hangar	ND
6	Boiler Rope Gasket	Exterior Boiler Room	ND
6	Pipe Joint on Fiberglass Lines	Exterior Boiler Room *	ND
7	Drywall	7-1, 7-3, 7-4, 7-5, 7-6, 7-7, 7-10, 7-13, 7-14	ND
7	Wallboard	7-1, 7-3, 7-4, 7-5, 7-6, 7-7, 7-10, 7-13, 7-14	ND
7	2' x 4' Pinhole/Gash Ceiling Panel	7-1, 7-4, 7-7	ND
7	Pipe Wrap	7	ND
7	Stall Divider Insulation	7-2	ND
7	2' x 4' Long Fissured Ceiling Panel	7-2, 7-6, 7-14(2)	ND
7	Firebrick	7-2	ND
7	Refractory	7-2	ND
7	12" x 12" Beige with White/Tan Fleck Floor Tile/Mastic	7-14(2)	ND
7	2' x 4' Short Fissured Ceiling Panel	7-6, 7-7	ND
7	Fiberglass Bat Covering (Paper)	7-7, 7-10-, 7-11	ND
7	Floor Seam Caulk	Hangar	ND
7	Fan Unit Gasket	7-2	ND
8	Drywall	8-1, 8-2, 8-3, 8-4, 8-5, 8-6, 8-7, 8-8, 8-9, 8-10, 8-11, 8-12, 8-13, 8-14, 8-15, 8-16, 8-17, 8-19, 8-20, 8-21, 8-22, 8-23, 8-24, 8-25, 8-26, 8-27, 8-28, 8-29, 8-30	ND
8	Wallboard	8-1, 8-4, 8-5,, 8-6, 8-7, 8-8, 8-9, 8-10, 8-11, 8-13, 8-17, 8-19	ND
8	2' x 2' Rough Textured Ceiling Panel	8-1, 8-2, 8-3, 8-4, 8-5, 8-6, 8-7, 8-8, 8-9, 8-10, 8-11, 8-12, 8-13, 8-14, 8-15, 8-16, 8-17, 8-19, 8-20, 8-21, 8-22, 8-23, 8-24, 8-25, 8-26, 8-27, 8-28, 8-29, 8-30	ND
8	Stall Divider Insulation	8-2, 8-18	ND

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8	Brown Baseboard	8-1, 8-4, 8-5, 8-6, 8-7, 8-8, 8-14, 8-22, 8-23, 8-24, 8-25, 8-26, 8-27	ND
8	12" x 12" Tan with Beige Fleck Floor Tile/Mastic	8-7, 8-14	ND
8	Brown Mosaic pattern Linoleum	8-20, 8-30	ND
8	12" x 12" Brown Design Pattern Floor Tile & Mastic	8-17	ND
8	Floor Seam Caulk	Hangar	ND
8	Exterior window caulk (brown)	Exterior windows of Bay 8	ND

Materials not sampled during this inspection because they were deemed non-suspect include:

- Fibrous glass batting insulation under the metal jacketing of the exterior access boiler in Bay #3.
- Fiberglass straight pipe insulation found on some mechanical system piping throughout the facility.

* Classified as ACM as only two samples were taken in ATC report.

3.0 CONCLUSIONS & RECOMMENDATIONS

The ACM assessment chart provided in Section 2.2 summarizes locations and quantities of remaining/presumed ACM's associated with Hangar 2.

Under the EPA's NESHAP, all friable asbestos or nonfriable asbestos that could become friable during demolition must be removed prior to the activity. These materials are considered regulated asbestos-containing materials (RACM). ACM is not considered RACM under NESHAP, and therefore need not be removed before demolition if it:

- (i) Is a Category I non-friable ACM that is not friable.
- (ii) Is on a facility component that is encased in concrete or other similarly hard material and is adequately wet whenever exposed during demolition.
- (iii) Was not accessible for testing and therefore was not discovered until after demolition began and, as a result of the demolition, cannot be safely removed. If not removed for safety reasons, the exposed RACM and any asbestos-contaminated debris must be treated as asbestos-containing waste material and kept adequately wet at all times until disposed of.
- (iv) Is a Category II non-friable ACM and the probability is low that the material will become crumbled, pulverized, or reduced to powder during demolition. The exterior building caulk may become friable during demolition and should be removed by a licensed asbestos abatement contractor.

Section 3.1 provides asbestos abatement response actions for identified/presumed ACM in order to facilitate demolition of the structures.

3.1 ABATEMENT RESPONSE ACTIONS

Friable ACM's identified include TSI straight pipe (aircell & millboard, pipe wrap), pipe joint and hanger insulation, pipe joint insulation on fiberglass straight lines, boiler and tank insulation, boiler seam chalk/gasket material and boiler mud plate material. TSI is found throughout the mechanical rooms and shop/office spaces on the southeast side of the building as well as the southeast side of each Bay. Boiler, tank insulations, boiler mud plate material and boiler seam caulk/gaskets are found in the four mechanical room areas. In addition, friable TSI may be present between interior component walls where observed mechanical piping enter/exit a wall/ceiling. Additional TSI should be assumed present in sink chases and/or bathroom chases that are not accessible without structural demolition (do not have access doors). Careful, selective demolition of walls should be conducted at these locations to determine if ACM is present.

All TSI removal should be performed via Class I removal procedures as outlined under 29 CFR 1926.1101. Tank and boiler insulation removal should be performed in fully contained negative pressure enclosures (NPE's). Pipe insulation can be removed via negative pressure glovebag enclosures.

Nonfriable ACM's identified include various 9" x 9" and 12" x 12" floor tiles and cement asbestos ductwork throughout the office and shop areas, both interior and exterior window caulking and glaze and exterior building caulking, corrugated cement asbestos panels around the building perimeter and in the Bay areas, one lab table top in Bay 6, sink undercoating in Bay 8, fan unit caulk and tunnel sealant in the mechanical areas and tunnels, weatherproofing tar above a window in Bay 4 and roofing flashing/tar associated with the boiler rooms and AC units.

All caulking materials and tunnel sealant materials are classified as Category II nonfriable materials. Materials are in fair/poor condition and have lost much of their elasticity; therefore they should be treated as RACM and removed prior to demolition.

Cement asbestos products and the lab table top are also Category II nonfriable materials. While they are rigid, the EPA has determined that standard demolition procedures have high probability of rendering these materials friable. Therefore, these materials should also be treated as RACM and removed prior to demolition.

Floor tile, weatherproofing tar and roofing materials are considered Category I nonfriable materials. If floor tile materials are in good/fair condition they do not have to be removed under NESHAP. However, floor tile materials are required to be removed if they are in poor condition and therefore could become friable or if the demolition contractor plans to salvage the concrete floor. Because floor tile conditions vary throughout the facility and the salvageable value of the concrete, all floor tiles materials should be considered RACM and removed prior to demolition. All nonfriable RACM removal should be performed via Class II removal procedures as outlined under 29 CFR 1926.1101.

Demolition with Roofing Materials in Place is covered under the NESHAP regulations (40 CFR Part 61 Subpart M). Asbestos-containing roofing tar/flashing materials identified in this investigation are not considered RACM under NESHAP as long as they are not rendered friable. Roofing materials can be cut in sections to facilitate demolition but should not be sanded, grinded or abraded. If the asbestos-containing roofing material is not in poor condition and is not friable, it may be disposed of in a landfill which accepts ordinary demolition waste. The asbestos-containing roofing material may not be ground up for recycling into other products.

In addition, contractors should ensure they follow all OSHA regulations pertaining to demolition of Category I ACM materials. Category I or II nonfriable ACM that is not subject to 61.150(a)(3) would still have to be disposed of in a landfill that accepts building debris, in a landfill that operates in accordance with 61.154, or at a facility that operates in accordance with 61.155.

HANGAR 2 SUMMARY LIST OF ASBESTOS-CONTAINING MATERIALS REQUIRING ABATEMENT

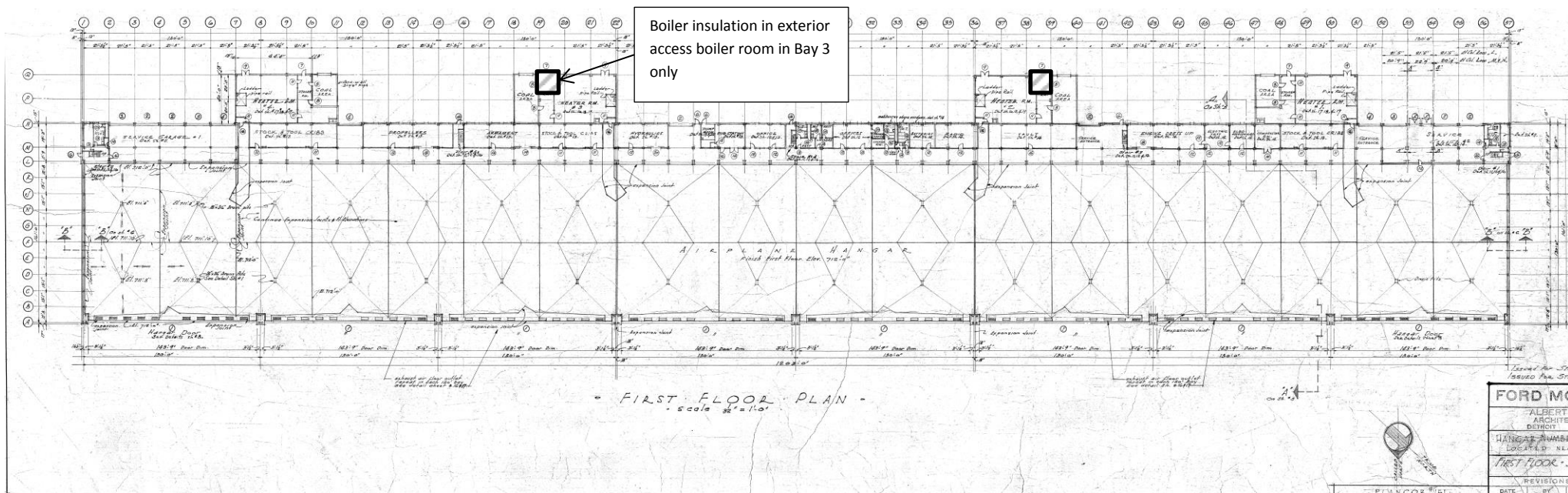
DESCRIPTION	LOCATION	QUANTITY
Transite Duct	Throughout office/shop areas	~71,000 square feet
Transite Panels	Hanger Exterior and Bays	~96,850 square feet
Straight Pipe Joint & Hanger Insulation (joint/hanger quantities included in linear total)	Throughout office/shop areas **	~7,675' linear **
	SE sides of Bays	~1,650 linear + 650 pipe fittings/valves
9" x 9" floor tile (brown),	Bay office areas *	~29,500 square feet
9" x 9" floor tile (green)	1-5, 1-6, 8-8 *	~1,930 square feet
9" x 9" floor tile (tan w/ black streaks)	1-9, 1-9 (2), 1-10, 3-12, 3-13 *	~6,620 square feet
9" x 9" floor tile (black w/ red/white specks)	1-9, 1-9 (2) *	~750 square feet
12" x 12" floor tile (off white w/ black flecks)	7-4 – 7-7, 7-10 – 7-13 *	~2,850 square feet
Floor tile under 12" x 12" floor tile (beige w/ dark spot)	5-14	~1,150 square feet
Interior window pane caulk	Windows	1,190 windows ~9,806' linear x .5 " *
Interior window frame glaze	Windows	78 frame units ~400' linear x .5" *
Exterior window pane caulk	Windows	1,190 windows ~1,424' linear x .5 " *
Exterior window frame caulk	Windows	78 frame units ~400' linear x .5" *
Exterior window caulk/glaze	Exterior – Hangar doors	~900' linear x .5" *
Boiler Insulation	2-26, 7-2 – Boiler Rooms	~300 square feet
Tank Insulation	2-26, 7-2 – Boiler Rooms	~400 square feet
Boiler/Tank Straight pipe/joint insulation	2-26, 7-2 – Boiler Rooms	~300 linear feet – 2" – 12" pipe, 2 - 12" valves
	Exterior access boiler rooms in Bays 3 & 6	~67 fittings 2" – 12"
Boiler caulk/gasket (coal boiler)	2-26, 3-14, 6-12, 7-2 - Boiler Rooms	~600 linear feet x 6"
Fan unit caulk	2-26, 3-14, 6-12, 7-2 - Boiler Rooms	~1,600 linear feet x 2"

DESCRIPTION	LOCATION	QUANTITY
Concrete tunnel sealant	2-26, 3-14, 6-12, 7-2 - Boiler Rooms tunnels	~2,400 linear feet x 2"
Boiler wall insulation (under metal jacket)	Exterior entry boiler room – 6-12	12' x 4.5' x 3' ~150 square feet
Boiler Plate Mud	Exterior entry boiler rooms – 3-14, 6-12	~185 square feet
Fire Door Core	Bay 3	4 doors
Black table top	6-14	45 square feet
Fuel Pipe Wrap	Bay 6 exterior – outside meter room	8" - 4 linear feet
Sink undercoating (white)	8-15	1 sink ~ 3square feet
Exterior Building Caulk	Lower Roof above Boiler Rooms - 2-26, 3-14, 6-12, 7-2	800 linear feet x .5"
Transition caulk	Around exterior door frames (standard and roll-up) & between some bays	750 linear feet x .5"

- * Majority of floor tile is under 12" x 12" non-asbestos tile and/or raised computer floors on 1st floor in Bays 2,3 and 5 and carpet squares or carpet on the 2nd floor.
- ** Friable TSI may be present between interior component walls where observed mechanical piping enter/exit a wall/ceiling. Additional TSI should be assumed present in sink chases and/or bathroom chases that were not accessible without structural demolition. Careful, selective demolition of walls should be conducted at these locations to determine if ACM is present. If TSI is present, it should be removed by a licensed asbestos abatement contractor per applicable regulations, prior to demolition activities

HANGAR 2 SUMMARY LIST OF ASBESTOS-CONTAINING MATERIALS NOT REQUIRING ABATEMENT

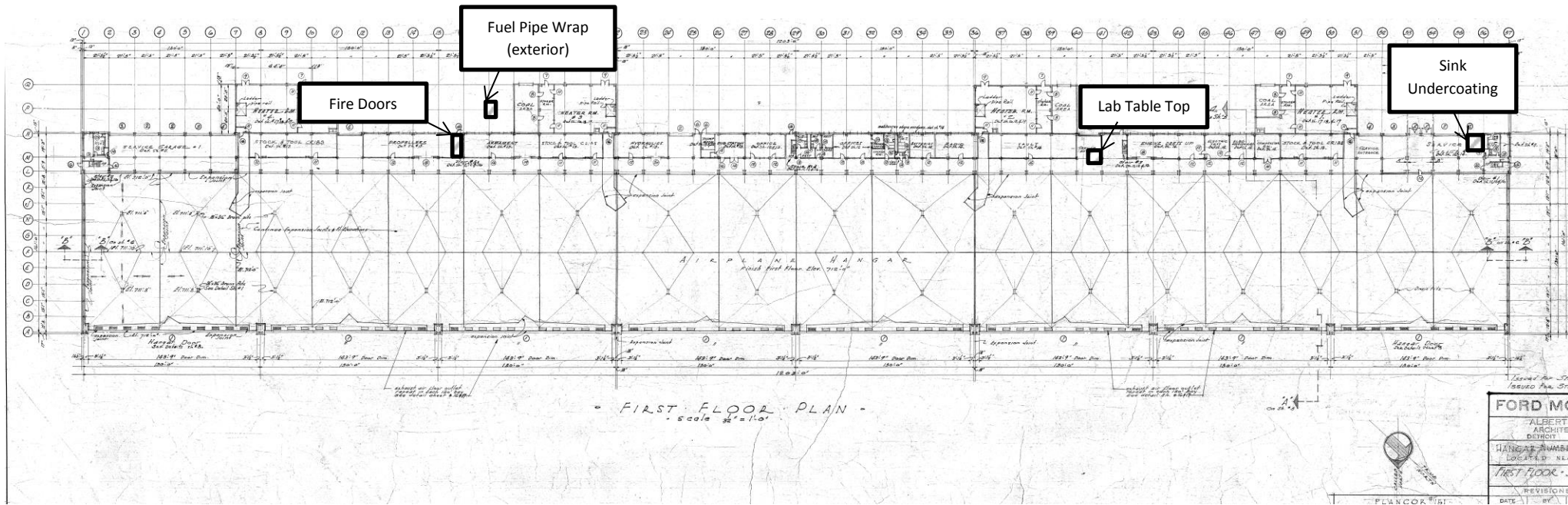
DESCRIPTION	LOCATION	QUANTITY
Roof Flashing-Lower Roof above Boiler Rooms	2-26, 3-14, 6-12, 7-2	800 LF
A/C Unit Tar	Middle Roof top	18 Units
Weatherproofing Tar	4-3	30 square feet



HANGAR 2 – 1st FLOOR

LOCATIONS OF ASBESTOS CONTAINING BOILER INSULATION & BOILER PLATE MUD (Exterior Access)

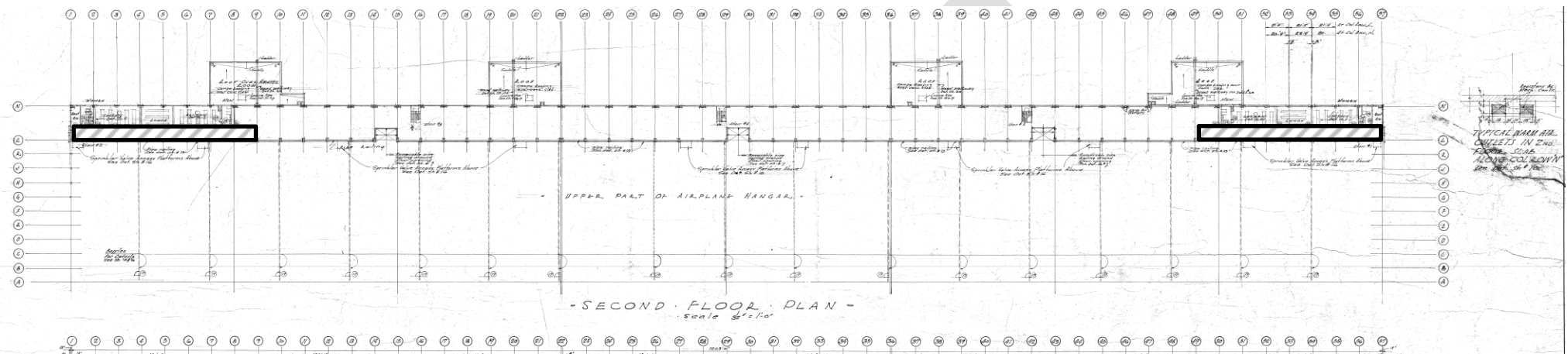




HANGAR 2 – 1ST FLOOR

**LOCATIONS OF ASBESTOS CONTAINING SINK UNDERCOATING,
FUEL PIPE WRAP, LAB TABLE TOP & FIRE DOORS**

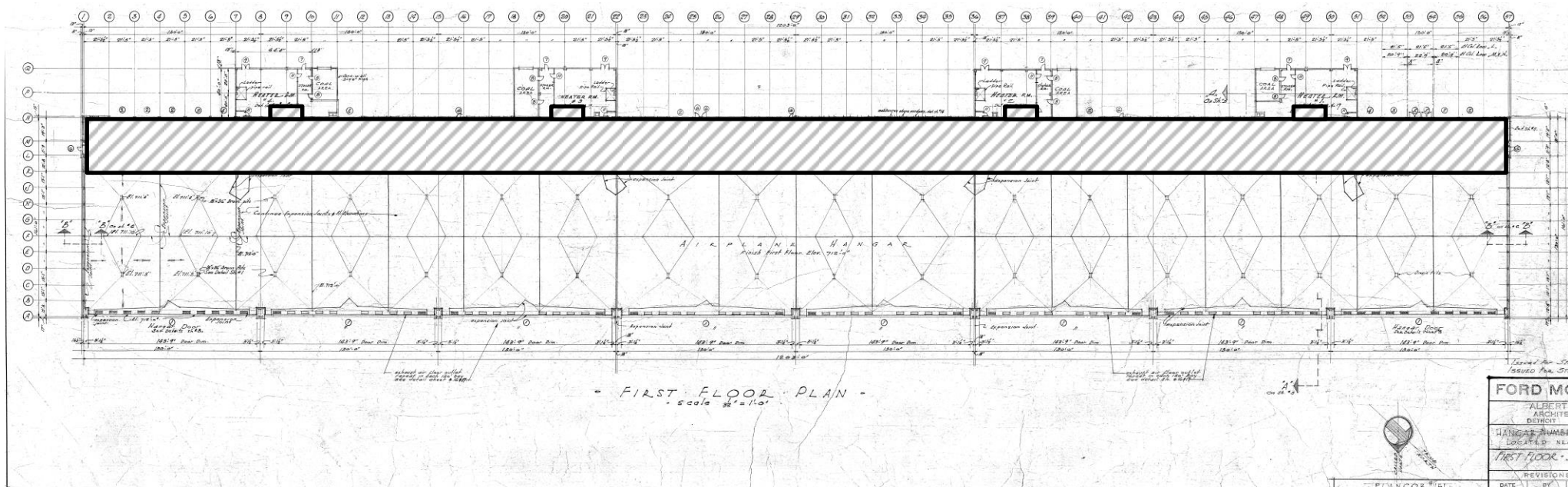




HANGAR 2 – 2ND FLOOR

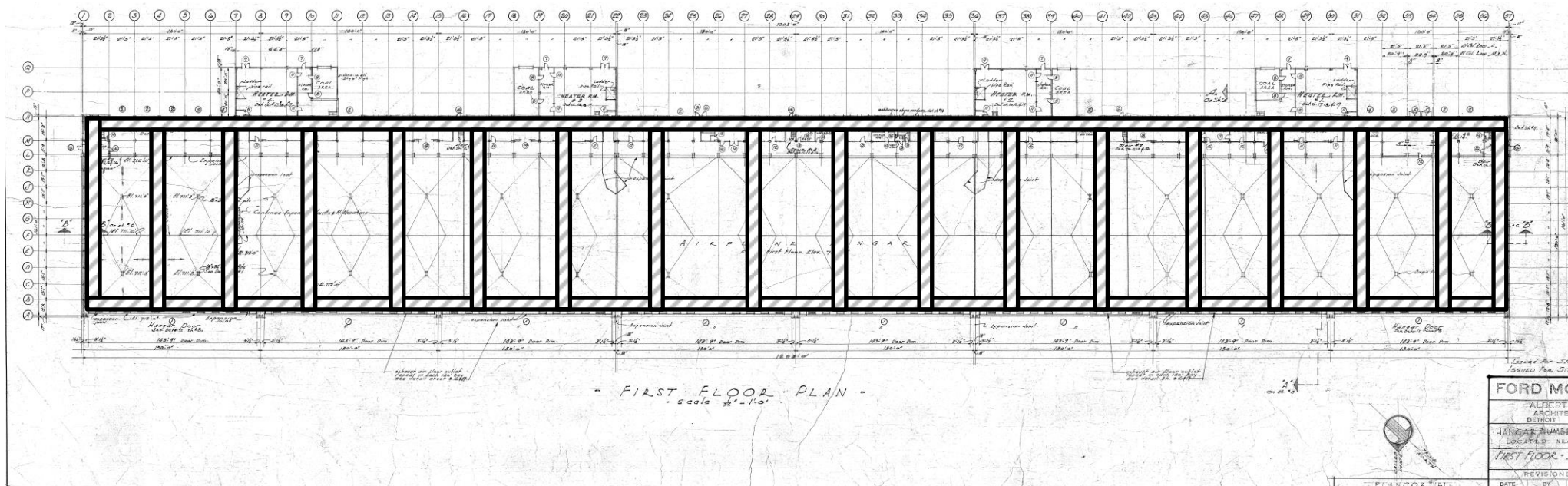
LOCATIONS OF CEMENT ASBESTOS DUCTS





HANGAR 2 – 1st FLOOR **LOCATIONS OF CEMENT ASBESTOS** **DUCTS**

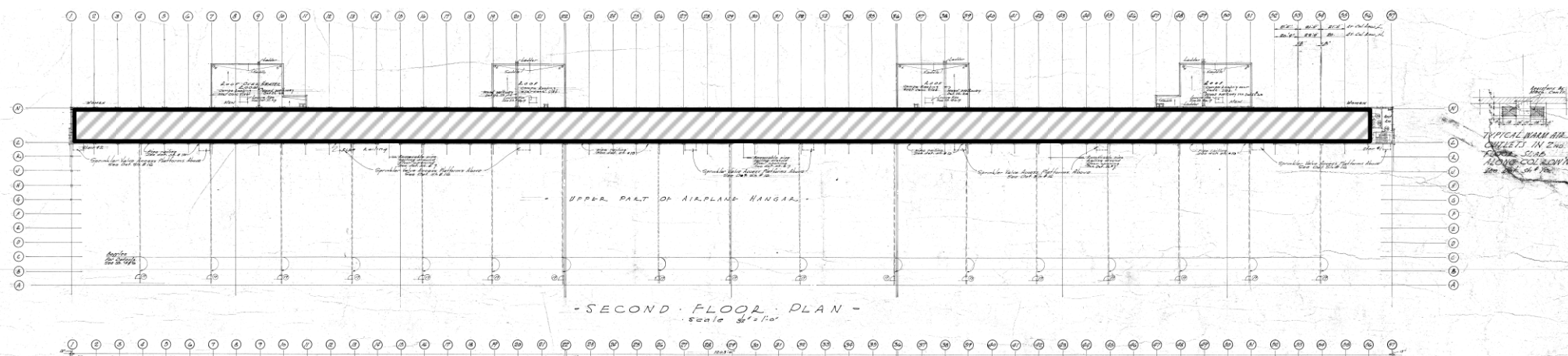




HANGAR 2

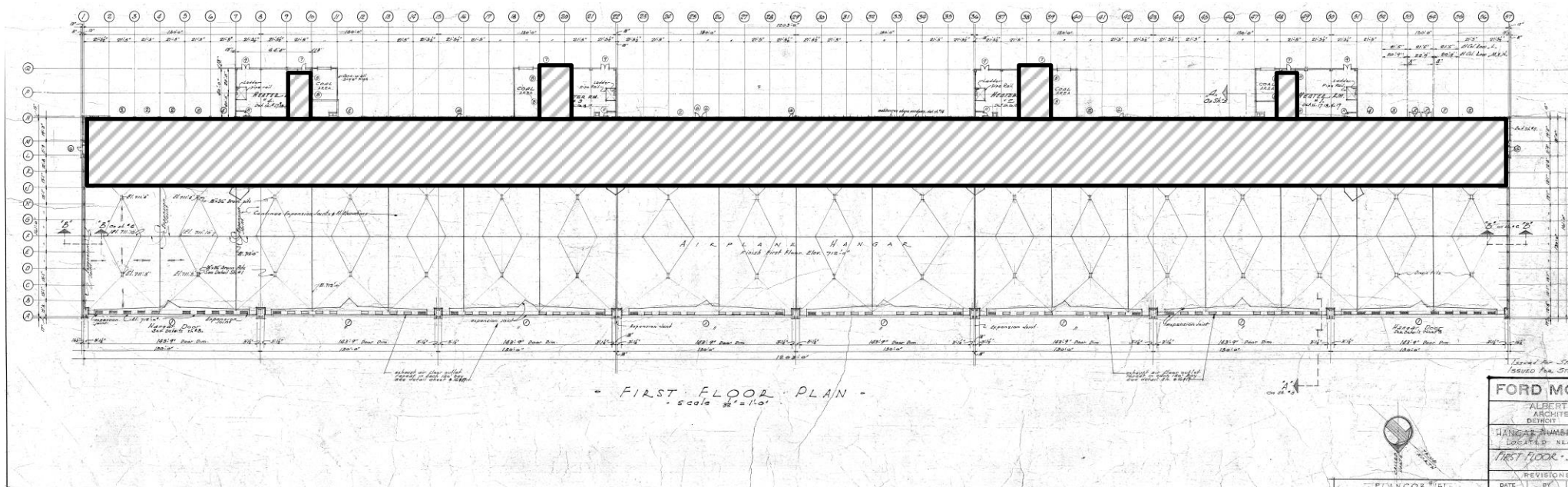
LOCATIONS OF CEMENT ASBESTOS PANELS





HANGAR 2 – 2ND FLOOR LOCATIONS OF ASBESTOS-CONTAINING PIPE INSULATION

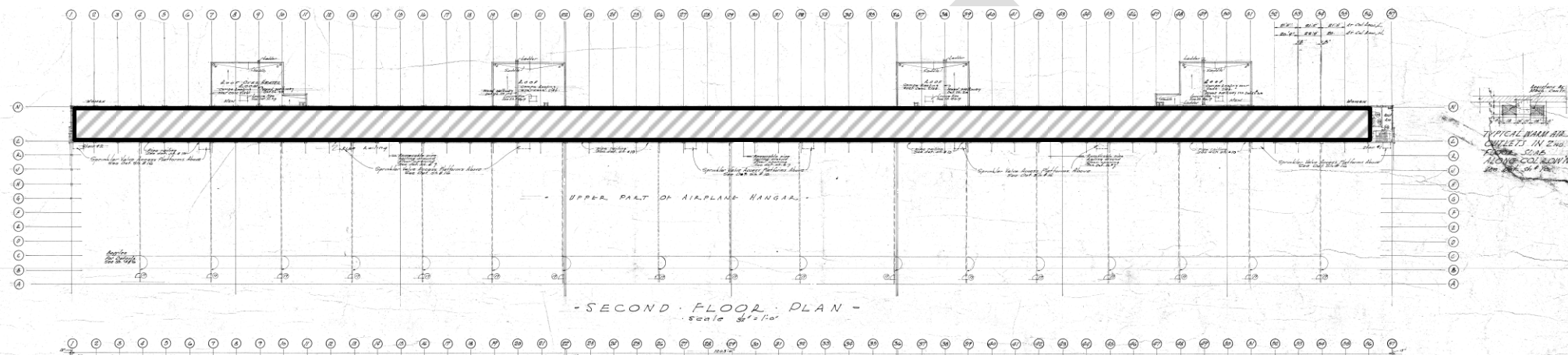




HANGAR 2 – 1ST FLOOR

LOCATIONS OF ASBESTOS-CONTAINING PIPE INSULATION



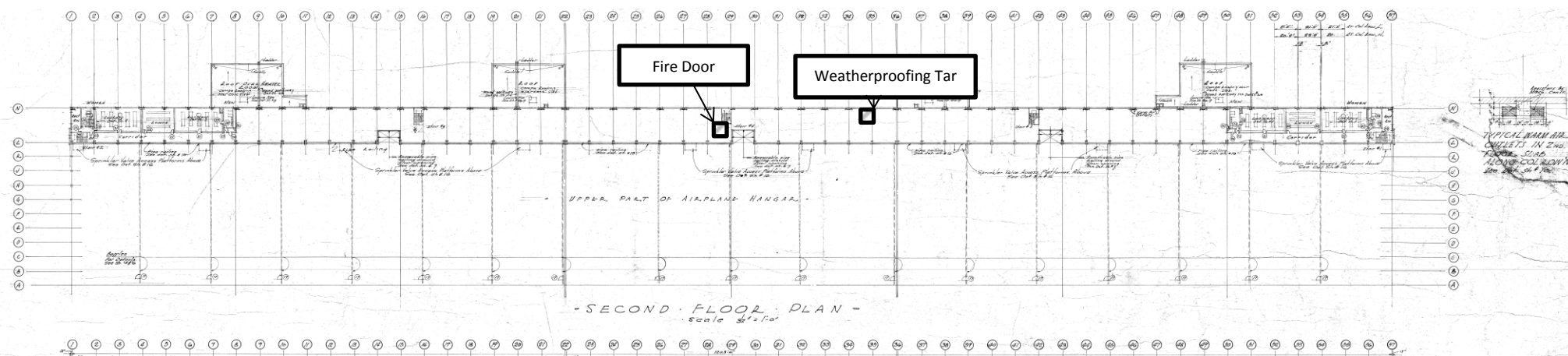


HANGAR 2 – 2ND FLOOR

LOCATIONS OF ASBESTOS-CONTAINING FLOOR TILE

(Note: not all rooms on 2nd floor contain floortile, refer to specific locations in ACM assessment chart)



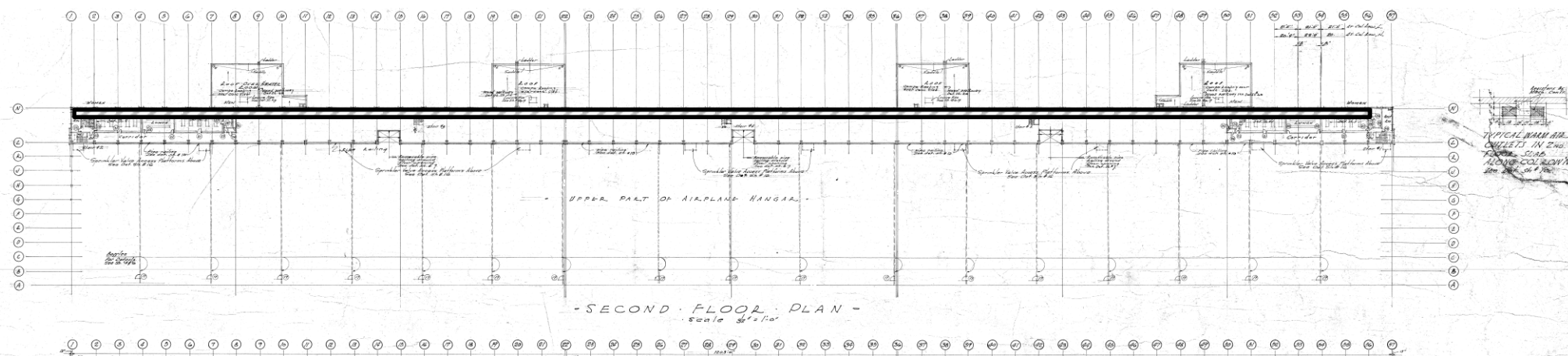


HANGAR 2 – 2ND FLOOR

LOCATIONS OF ASBESTOS CONTAINING

WEATHERPROOFING TAR & FIRE DOORS





HANGAR 2 – 2ND FLOOR

LOCATIONS OF ASBESTOS-CONTAINING WINDOW CAULK/GLAZING & EXTERIOR BUILDING CAULK

(Note: Window caulk/glaze located where windows are present.

Exterior building caulk located at doors/roll-up doors, building transitions)





Photo #1: Asbestos-containing 9" x 9" floor tile (brown). Representative for all 9" x 9" tiles.

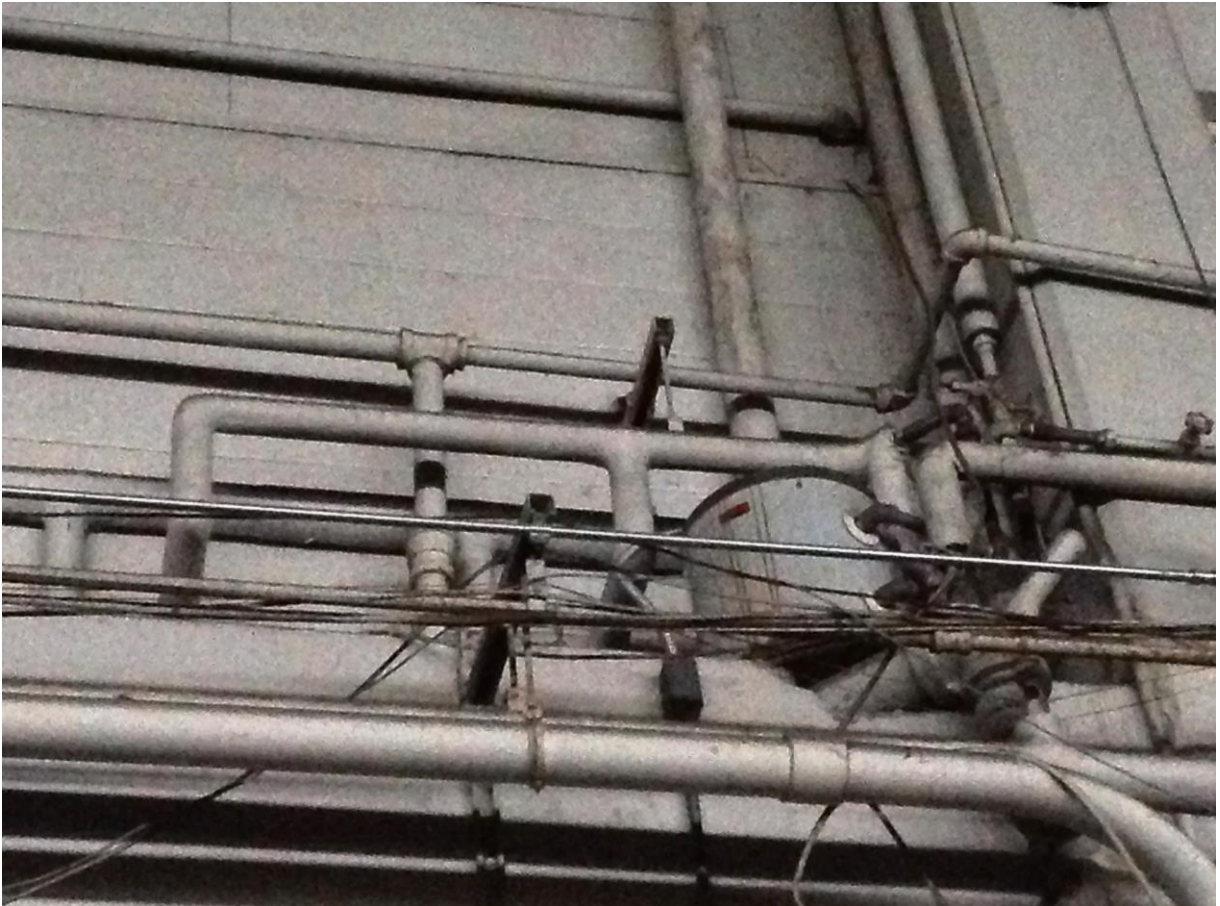


Photo #2: Asbestos-containing thermal system straight pipe/joint insulation (water).



Photo #3: Cement asbestos HVAC duct.



Photo #4: Asbestos-containing 12" x 12" floor tile (off white w/ black flecks).



Photo #5: Asbestos-containing exterior window caulks.



Photo #6: Asbestos-containing interior window glaze.



Photo #7: Asbestos-containing Boiler insulation, Bay 2 interior boiler room.



Photo #8: Asbestos-containing HW tank insulation & heating piping, Bay 2 interior boiler room.

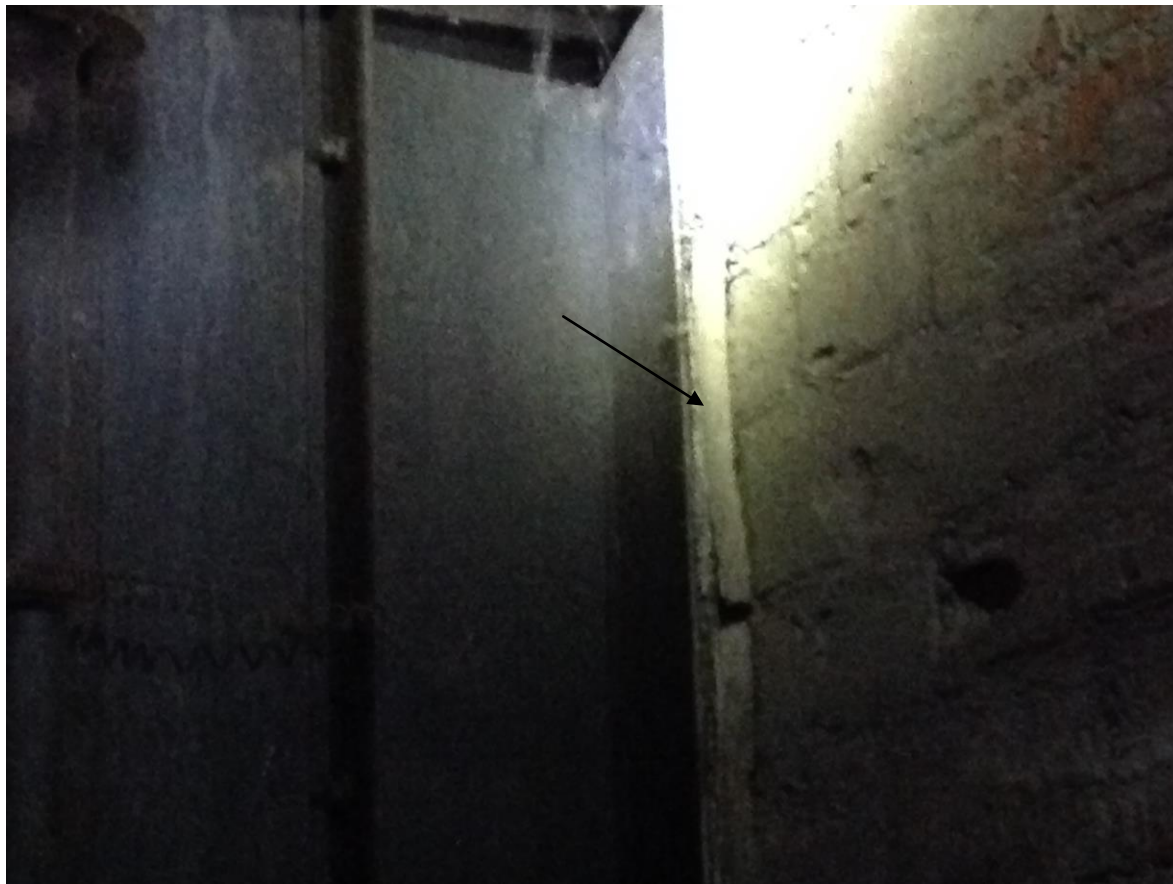


Photo #9: Asbestos-containing boiler caulk/gasket.



Photo #10: Asbestos-containing fan unit caulk.



Photo #11: Asbestos-containing lab table top.



Photo #12: Asbestos-containing white sink insulation.



Photo #13: Exterior cement asbestos corrugated panels.



Photo #14: Asbestos-containing exterior fuel line pipe insulation.



Photo #15: Asbestos-containing boiler wall insulation. Exterior boiler room, Bay 6.



Photo #16: Asbestos-containing boiler plate mud. Exterior boiler room, Bay 3.

PHOTOS NOT PROVIDED:

- ROOFING FLASHING OR TAR**
- WEATHERPROOFING TAR**
- CONCRETE TUNNEL SEALEANT**

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449-9990, Fax (734) 449-9991.

Web Site: <http://apexresearch-inc.com>. Email: Bob.Letarte@apexresearchlab.comCustomer Name: Environmental Consulting Group IncAddress: 7105 WarrenCity, St., Zip: Ann Arbor MI 48105Phone: 734-222-7050 Fax: 734-222-7251Date of Survey: 11/25-27/13Project: KIP - Hanger 2 SurveyProject # A1372-445Contact Person: Mike IngelsEmail: mjingles@hotmail.com

Lab Use Only

Log-In: _____

Report: _____

Fax: _____

Verbal: _____

Email: _____

Turn Around Times: (Circle One)

Rush _____ 24 hour _____

48 hour _____ 72 hour _____Other: _____ TTP yes / no
(Test Till Positive)Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM ☒

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: Bulk/NOP _____ AHERA _____ EPA Level II _____ Other _____

***Terms and conditions on the other side.

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
1	445-01	Concrete ceiling, deck Catwalk NW corner Bay 2	90		
2	02	" " " " " "	90		
3	03	" " " " " "	90		
4	04	Interior window glass (Perimeter) Bay 6 - SE corner	50		
5	05	Exterior Perimeter Window caulk Bay 6 - LL	91		
6	06	" Window caulk Bay 6 - LL	91		
7	07	1'x1' CT (uniform hole) - fiberboard 5'6"	92		
8	08	Fire door core - 2nd ^{TOP} stairwell Bay 4 (nwd)	93		
9	09	" " 1st Fl. Exit Hallway, E. End - Bay 3 (nwd)	93		
10	10	" " 1st Fl. Welding Shop Door - E. End Bay 4 (paper)	35		
11	11	9'x9" UAT BAY 8, Hanger Floor, W. End	94		

Relinquished By: M. LetarteDate: 11/27/13 2:10 pm

Revision Date: June 2011

Received By: _____

Date: 11/27/13

Relinquished By: _____

Date: _____

Relinquished By: _____

Date: _____

NOV 27 2013

APEX #

49123

APEX Research, Inc.

4 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991.
 Web Site: <http://apexresearch-inc.com>. Email: Bob.Letarte@apexresearchlab.com

Customer Name: Environmental Consulting Group, Inc.Address: 7105 WarrenCity, St., Zip: Ann Arbor MI 48105Phone: 734-222-7050 Fax: 734-222-7051Date of Survey: 12/13/13Project: YIP - Hangar 2 SurveyProject # A1372-445Contact Person: M. Ke IngelsEmail: m.ingels@hotmail.com

Lab Use Only

Log-In: _____

Report: _____

Fax: _____

Verbal: _____

Email: _____

Turn Around Times: (Circle One)

Rush 24 hour48 hour 72 hourOther: _____ TTP yes / no
(Test Till Positive)Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM ☒

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: Bulk/NOP _____ AHERA _____ EPA Level II _____ Other _____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
1	445-12	Boiler Insulation - Int Wall	Bag 3 - Ext	94	
2	13	" " " "	" " "	94	
3	14	" " " "	" " "	94	
4	15	East Window Casette LL	Bag 3 - S.S.	95	
5	16	" " " " LL	" " SW Corner	95	
6	17	" " " " LL	" " W. End	95	

Relinquished By: [Signature]
 Date: 11/4/13
 Revision Date: June/2011

Received By: [Signature]
 Date: _____

Relinquished By: _____
 Date: _____

Relinquished By: _____
 Date: _____

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: YIP - Hanger 2 Survey
Project # A1372-445

Report To:

Mr. Mike Ingels
Environmental Consulting Group, Inc.
7105 Warren
Ann Arbor, MI 48105

ARI Report # 13-49029
Date Collected: 11/25-27/2013
Date Received: 11/27/13
Date Analyzed: 12/02/13
Date Reported: 12/02/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 49029 - 01 Cust. #: 445-01 Material: Concrete Ceiling Deck Location: Catwalk, NW Corner Bay 2 Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 49029 - 02 Cust. #: 445-02 Material: Concrete Ceiling Deck Location: Catwalk, NW Corner Bay 2 Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 49029 - 03 Cust. #: 445-03 Material: Concrete Ceiling Deck Location: Catwalk, NW Corner Bay 2 Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert Letarte".

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: YIP - Hanger 2 Survey
Project # A1372-445

Report To:

Mr. Mike Ingels
Environmental Consulting Group, Inc.
7105 Warren
Ann Arbor, MI 48105

ARI Report # 13-49029
Date Collected: 11/25-27/2013
Date Received: 11/27/13
Date Analyzed: 12/02/13
Date Reported: 12/02/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 49029 - 04 Cust. #: 445-04 Material: Interior Window Glaze Location: Bay 6 - Stairwell Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 5%	Other - 95%
Lab ID #: 49029 - 05 Cust. #: 445-05 Material: Exterior Perimeter Window Caulk Location: Bay 6 - LL Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 5%	Other - 95%
Lab ID #: 49029 - 06 Cust. #: 445-06 Material: Exterior Window Caulk Location: Bay 6 - LL Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO Chrysotile - < 1%	Wollastonite - 5% Other - 95%

For Layered Samples, each component will be analyzed and reported separately.

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Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: YIP - Hanger 2 Survey
Project # A1372-445

Report To:

Mr. Mike Ingels
Environmental Consulting Group, Inc.
7105 Warren
Ann Arbor, MI 48105

ARI Report # 13-49029
Date Collected: 11/25-27/2013
Date Received: 11/27/13
Date Analyzed: 12/02/13
Date Reported: 12/02/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 49029 - 07 Cust. #: 445-07 Material: 1'x1' CT - Fiberboard 5-6 Location: Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 49029 - 08 Cust. #: 445-08 Material: Firedoor Core Location: 2nd Top Stairwell to Bay 4 (Mud) Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Perlite - 40% Other - 60%
Lab ID #: 49029 - 09 Cust. #: 445-09 Material: Firedoor Core Location: 1st Fl. Exit Hall Door, E. End Bay 3 Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 50%	Other - 50%

For Layered Samples, each component will be analyzed and reported separately.

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Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: YIP - Hanger 2 Survey
Project # A1372-445

Report To:

Mr. Mike Ingels
Environmental Consulting Group, Inc.
7105 Warren
Ann Arbor, MI 48105

ARI Report # 13-49029
Date Collected: 11/25-27/2013
Date Received: 11/27/13
Date Analyzed: 12/02/13
Date Reported: 12/02/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 49029 - 10 Cust. #: 445-10 Material: Firedoor Core Location: 1st Fl. Welding Shop Door E. End Bay 4 Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 49029 - 11 Cust. #: 445-11 Material: 9"x9" VAT Location: Bay 8, Hanger Floor, W. End Appearance: beige, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO Chrysotile - < 1%	Other - 100%
Lab ID #: 49029 - 11a Cust. #: 445-11 Material: Mastic Location: Bay 8, Hanger Floor, W. End Appearance: black, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert Letarte".

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: YIP Hanger 2 Survey
Project # A1372-445

Report To:

Mr. Mike Ingels
Environmental Consulting Group
7105 Warren Rd.
Ann Arbor, MI 48105

ARI Report # 13-49123
Date Collected: 12/03/13
Date Received: 12/04/13
Date Analyzed: 12/05/13
Date Reported: 12/05/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 49123 - 01 Cust. #: 445-12 Material: Boiler Insulation Location: Int. Wall, Bay 3 Ext. Boiler Rm. Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 35%	Cellulose - 35% Other - 30%
Lab ID #: 49123 - 02 Cust. #: 445-13 Material: Boiler Insulation Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 35%	Cellulose - 35% Other - 30%
Lab ID #: 49123 - 03 Cust. #: 445-14 Material: Boiler Insulation Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 35%	Cellulose - 35% Other - 30%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert Letarte".

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: YIP Hanger 2 Survey
Project # A1372-445

Report To:

Mr. Mike Ingels
Environmental Consulting Group
7105 Warren Rd.
Ann Arbor, MI 48105

ARI Report # 13-49123
Date Collected: 12/03/13
Date Received: 12/04/13
Date Analyzed: 12/05/13
Date Reported: 12/05/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 49123 - 04 Cust. #: 445-15 Material: Ext. Window Caulk - LL Location: Bay 3 - S Side Appearance: black, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 2% Other - 98%
Lab ID #: 49123 - 05 Cust. #: 445-16 Material: Ext. Window Caulk - LL Location: Bay 3 - SW Corner Appearance: brown, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Synthetic - 5% Other - 95%
Lab ID #: 49123 - 06 Cust. #: 445-17 Material: Ext. Window Caulk - LL Location: Bay 3 - W End Appearance: brown, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Synthetic - 5% Other - 95%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert Letarte".

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0

34923

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990

E-mail: apexresearch@chartermi.net

Fax: 734-449-9991



Client Name: ATC Associates Inc.
 Address: 46555 Humboldt Drive, Suite 100
 City, St., Zip: Novi, Michigan 48377
 Phone: (248) 669-5140 Fax: (248) 669-5147

Date of Survey: 3-14 thru 3-16-11
 Project: Willow Run Airport - Hanger #2
 Project #: 34.4198.1101
 Contact Person: Rob Sattl

Lab Use Only
 Log-In _____
 Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

1st Positive StepAsbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
100	28-CP-A	2x4 medium fast particle CP 4-1	2		
101	28-CP-B		4-3		
102	28-CP-C		4-12		
103	28-CP-D		3-2		
104	29-WPM-A	Weatherstripping material - 4-3			
105	30-WG-A	Window Glass 4-3			
106	30-WG-B		4-11		
107	30-WG-C		2-16		
108	30-WG-D		1-9(2)		
109	30-WG-E		7-2		
110	30-WG-F		5-14		

Relinquished by: M. HallDate: 3/17/11Rev: 12/03
Work Forms: COCReceived by: [Signature]Date: 3/18/11 G. [Signature]

RECEIVED

MAR 18 2011

APEX RESEARCH

Relinquished by: _____

Date: _____

Received by: _____

Date: _____

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189

Phone: 734-449-9990

E-mail: apexresearch@chartermi.net

Fax: 734-449-9991



Client Name: ATC Associates Inc.
Address: 46555 Humboldt Drive, Suite 100
City, St., Zip: Novi, Michigan 48377
Phone: (248) 669-5140 Fax: (248) 669-5147

Date of Survey: 3-14 thru 3-16-11
Project: Willow Run Airport - Hangar #2
Project #: 39.41498.1101
Contact Person: Rub Sattl

Lab Use Only
Log-In _____
Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

1st Posture Step

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
111	31-FT-A	12x12 Twp 6 H. Brw. shak 4-5			
112	31-FT-B				
113	31-FT-C				
114	32-CPA-A	2x2 rough Twp GP with soil 4-13			
115	32-CPA-B				
116	32-CPA-C				
117	33-BB-A	Black/DK Gray Bitumbrd / Adhnsn 4-13			
118	33-BB-B				
119	33-BB-C				

Relinquished by: M. K...

Received by: [Signature]

Relinquished by: _____

Received by: _____

Date: 3/17/11

Date: 3/19/11 9am

Date: _____

Date: _____

Rev: 12/03
Work Forms: COC

RECEIVED
MAR 18 2011
APEX RESEARCH

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189

Phone: 734-449-9990

E-mail: apexresearch@chartermi.net

Fax: 734-449-9991



Client Name: ATC Associates Inc.
Address: 46555 Humboldt Drive, Suite 100
City, St., Zip: Novi, Michigan 48377
Phone: (248) 669-5140 Fax: (248) 669-5147

Date of Survey: 3-14 Thru 3-16-11
Project: Willow Run Airport - Hangar #2
Project #: 37.4198.1101
Contact Person: Rob Smith

Lab Use Only
Log-In _____
Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

1st Positive Start

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
120	34-FWB-A	Fibers wall Board 4-14			
121	34-FWB-B				
122	34-FWB-C				
123	35-FD-A	Fire door Insulation 3-1			
124	36-CP-A	2x4 Lg. Fissure / Heavy plate 2-1			
125	36-CP-B				
126	36-CP-C				
127	37-WC-A	Window sill 2-16			
128	37-WC-B				
129	37-WC-C				

Relinquished by: [Signature]

Received by: [Signature]

Relinquished by: _____

Received by: _____

Date: 3/17/11

Date: 3/18/11

Date: _____

Date: _____

Rev: 12/03
Work Forms: COC

RECEIVED
MAR 18 2011
APEX RESEARCH

34923

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E-mail: apexresearch@chartermi.net

Fax: 734-449-9991



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 Phone: (248) 669-5140 Fax: (248) 669-5147

Date of Survey: 3-14 thru 3-16-11
 Project: Willow Run Airport - Hanger #2
 Project #: 34.41498.1101
 Contact Person: Rob Saitl

Lab Use Only
 Log-In _____
 Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

1st Positive Sup.

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
130	38-FT-A	9x9 Tow with Black steel FT 1-1			
131	38-FT-B				
132	38-FT-C				
133	39-CT-A	1x1 Irregular det CT/Glass/Pd/Bulk 1-6			
134	39-CT-B				
135	39-CT-C				
136	40-TD-A	Transite Det 1-4(2)			
137	40-TD-B				
138	40-TD-C				
139	40-TD-D				
140	40-TD-E				

Relinquished by: M. H. H.Received by: [Signature]Date: 3/17/11Date: 3/18/11

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Received by: _____

Date: _____

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Client Name: ATC Associates Inc.
Address: 46555 Humboldt Drive, Suite 100
City, St., Zip: Novi, Michigan 48377
Phone: (248) 669-5140 Fax: (248) 669-5147

Date of Survey: 3-14 thru 3-16-11
Project: Willow Run Airport - Hanger #2
Project #: 39.4193.1101
Contact Person: Rub SmtL

Lab Use Only
Log-In _____
Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

1st Positive Stop

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
141	40-TD-F	Transite Duct 2-19			
142	40-TD-G	↓ 6-12			
	40-TD-H				
143	41-FT-A	9x9 Black Lk Rd/White skid FT 1-9/12			
144	41-FT-B	↓			
145	41-FT-C	↓			
146	42-FT-A	12x12 Brown Desktop Pth # 8-17			
147	42-FT-B	↓			
148	42-FT-C	↓			
1					

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Phone: (248) 669-5140 Fax: (248) 669-5147

Date of Survey: 3-14 thru 3-16-11
Project: Willow Run Airport - Hanger #2
Project #: 34.41498.1101
Contact Person: Rob Sroth

Lab Use Only
Log-In _____
Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

1st Positive Step

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
149	43-LN-A	Brown Mason Linoleum 8-30	1		
150	43-LN-B				
151	43-LN-C				
152	44-GK-A	Few unit Gasket 7-2			
153	44-GK-B				
154	44-GK-C				
155	44-GK-D				
156	45-FB-A	Finback 7-2			
157	45-FB-B				
158	45-FB-C				

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Date: 3/18/11

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 City, St., Zip: Novi, Michigan 48377
 Phone: (248) 669-5140 Fax: (248) 669-5147

Date of Survey: 3-14 Thru 3-16-11
 Project: Willow Run Airport - Hanger #2
 Project #: 39.41493.1101
 Contact Person: Rob Smith

Lab Use Only
 Log-In _____
 Report _____

Turn Around Times: (Circle One)

Rush _____ 24 hour _____
 48 hour _____ 72 hour _____
 Other: _____ TTP _____

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____
 Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____
 Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____
 TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

1st Active Step

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
159	46-BI-A	Beaker ins (Hot water) 7-2			
160	46-BI-B	↓			
161	46-BI-C	↓			
162	47-TK-A	Tank ins (Hot water) 7-2			
163	47-TK-B	↓			
164	47-TK-C	↓			
165	48-PI-A	Beaker pipe ins (Hot water) 7-2			
166	48-PI-B	↓			
167	48-PI-C	↓			

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Date of Survey: 3-14 thru 3-16-11
 Project: Willow Run Airport - Hangar #2
 Project #: 37.41493.1101
 Contact Person: Rob Smith

Lab Use Only
 Log-In _____
 Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

1st Positive Stop

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
168	49-RJ-A	Bunker Area Joint (Ht. wall) 7-2	1		
169	49-RJ-B				
170	49-RJ-C				
171	50-RB-A	Refractory Bulk (old coal boiler) 7-2			
172	50-RB-B				
173	50-RB-C				
174	51-FB-A	Firebrick (old coal boiler) 7-2			
175	51-FB-B				
176	51-FB-C				

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Project: Willow Run Airport - Hanger #2
Project #: 37.41493.1101
Contact Person: Rob Smith

Lab Use Only
Log-In _____
Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

1st Positive Stop

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
177	S2-BC-A	Bunker bulk/Gasket 7-2			
178	S2-BC-B				
179	S2-BC-C				
180	S3-TT-A	Black Table top 6-14			
181	S3-TT-B				
182	S3-TT-C				
183	S4-CPC-A	concrete pipe coating 6-12 (Tunnel)			
184	S4-CPC-B				
185	S4-CPC-C				

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Date of Survey: 3-14 Thru 3-16-11
 Project: Willow Run Airport - Hanger #2
 Project #: 34923.1101
 Contact Person: Rob Sattl

Lab Use Only
 Log-In _____
 Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

1st Positive Stop

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
186	SS-CPS-A	concrete pipe sublet G-12 Tunnel			
187	SS-CPS-B				
188	SS-CPS-C				
189	SL-ESB-A	Exhaust stack Bulk/mix G-12			
190	SL-ESB-B				
191	SL-ESB-C				
192	S7-FC-A	Few unit bulk - G-12			
193	S7-FC-B				
194	S7-FC-C		2-14		

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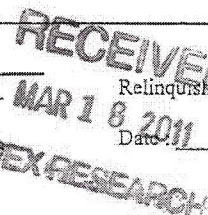
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Phone: (248) 669-5140 Fax: (248) 669-5147

Date of Survey: 3-14 thru 3-16-11
Project: Willow Run Airport - Hangar #2
Project #: 39. 41498.1101
Contact Person: Rob Smith

Lab Use Only
Log-In _____
Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

1st Positive Step

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
195	58-BL-A	Bulk seal/casket G-12			
196	58-BL-B				
197	58-BL-C				
198	59-FB-A	Fireback (old coal boiler) G-12			
199	59-FB-B				
200	59-FB-C				
201	60-BL-A	Bulk Benz refractory G-12			
202	60-BL-B				
203	60-BL-C				

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Date of Survey: 3-14 thru 3-16-11
Project: Willow Run Airport - Hargis #2
Project #: 39.41498.1101
Contact Person: Rob Smith

Lab Use Only
Log-In _____
Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

1st Positive Step

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
204	G1-FT-A	12x12 Berge with Dill seats S-14			
205	G1-FT-B				
206	G1-FT-C				
207	G2-FT-A	Tile under G1-FT S-14			
208	G3-CP-A	2x2 Light vent Test CP S-8			
209	G3-CP-B				
210	G3-CP-C				
211	G4-CT-A	1x1 White CT/Glue Pad/Bulk U-20			
212	G4-CT-B				
213	G4-CT-C				

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Phone: (248) 669-5140 Fax: (248) 669-5147

Date of Survey: 3-14 thru 3-16-11
Project: Willow Run Airport - Hangar #2
Project #: 39.41498.1101
Contact Person: Rob Smith

Lab Use Only
Log-In _____
Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

1st Positive Step

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
214	65-FT-A	12x12 LF Bulge FT 3-13			
215	65-FT-B				
216	65-FT-C				
217	66-FT-A	Two FT under 65-FT 3-13			
218	67-FT-A	12x12 Mosaic FT 3-12			
219	67-FT-B				
220	67-FT-C				
221	68-FT-A	Tile under 67-FT 3-12			
222	69-FT-A	12x12 Black with white crack FT 2-26			
223	69-FT-B				
224	69-FT-C				

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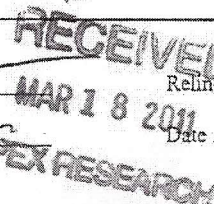
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Date: 3/17/11

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 City, St., Zip: Novi, Michigan 48377
 Phone: (248) 669-5140 Fax: (248) 669-5147

Date of Survey: 3-14 thru 3-16-11
 Project: Willow Run Airport - Hangar #2
 Project #: 37.4148.1101
 Contact Person: Rob Smith

Lab Use Only
 Log-In _____
 Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

1st Posture Step

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
225	70-FT-A	Tile under 69-FT 2-26			
226	71-FT-A	Tile under raised floor 2-26			
227	72-FT-A	Tile under 121R Bulk FT 2-24			
228	73-BX-A	Bulk caulk / Gasket 2-26			
	73-BX-B				
	73-BX-C				
229	74-TK-A	Tank Insult (under) 2-26			
230	75-BT-A	Bulk Insult (1st later) 2-26			
231	76-LX-A	Ext window Gkz - Hangar Bay Doors			
232	76-LX-B				
233	76-LX-C				

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Project #: 39.41498.1101
Contact Person: Rob Smith

Lab Use Only
Log-In _____
Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

1st Positive Step

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
234	77-SC-A	Floor scum chalk Bay 1	1/2		
235	77-SC-B	↓ Bay 6	"		
236	78-FT-A	12x12 off white / tan speckle Ft. Bay 5 mid off			
237	78-FT-B				
238	78-FT-C	↓			
239	79-LP-A	2x4 scattered pinholes/shut fissures - Bay 6 off			
240	79-LP-B				
241	79-LP-C	↓			

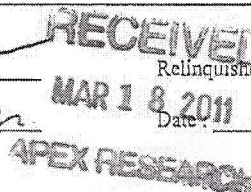
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Date: 3/17/11

Date: 3/18/11 Gen

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 Project #: 39.41498.1101
 Contact Person: Rob Smith

Lab Use Only
 Log-In _____
 Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

1st Position Step

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
242 <u>234 40</u>	20-GK-A	Bulk rope Gasket - Bay 6			
243 <u>235 42</u>	20-GK-B				
244 <u>236 43</u>	20-GK-C				
245 <u>237 44</u>	21-BP-A	Bulk Plate Mud - Bay 6			
246 <u>238 45</u>	21-BP-B				
247 <u>239 46</u>	21-BP-C				
248 <u>240 47</u>	22-DJ-A	6"-8" pipe jct w Fiberglass - Bay 6			
249 <u>241 48</u>	23-DJ-A	2"-4" pipe jct w Fiberglass Bay 6			
250 <u>242 49</u>	24-PI-A	Fuel pipe wrap - Exterior			

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Date of Survey: 3-14 thru 3-16-11
 Project: Willow Run Airport - Hanger #2
 Project #: 39.4198.1101
 Contact Person: Rob Smith

Lab Use Only
 Log-In _____
 Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hourOther: TTPAsbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

1st Positive Step

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
245 51	85-RM-A	roof material upper			
245 52	85-RM-B				
244 53	85-RM-C	↓ middle			
245 54	86-RF-A	roof Flashing lower			
246 55	86-RF-B				
247 56	86-RF-C	↓ middle			
248 57	87-ACT-A	air conditioning tower - roof lower			
249 58	87-ACT-B				
250 59	87-ACT-C	↓			

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48 hour 72 hour

Other: _____ TTP _____

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

1st Positive Step

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
251 60	88-EBX-A	Ext Bldg Culk - lower rd			
252 61	88-EBX-B				
253 62	88-EBX-C				
254 63	89-EBX-A	Ext window culk - middle rd - west			
255 64	89-EBX-B				
256 65	89-EBX				
257 66	90-EBX-A	Ext. window Glass - W side Not			
258 67	90-EBX-B				
259 68	90-EBX-C				

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Date: _____

APEX Research, Inc. 11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990
E-mail: apexresearch@chartermi.net Fax: 734-449-9991

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990

E-mail: apexresearch@chartermi.net

Fax: 734-449-9991



Client Name: ATC Associates Inc.
Address: 46555 Humboldt Drive, Suite 100
City, St., Zip: Novi, Michigan 48377
Phone: (248) 669-5140 Fax: (248) 669-5147

Date of Survey: 3-14 thru 3-16-11
Project: Willow Run Airport - Hanger #2
Project #: 39.41498.1101
Contact Person: Rob Smith

Lab Use Only
Log-In _____
Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP

Asbestos: Bulk ☒ Wipe ☐ Point Count ☐ PCM ☐

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

1st Positive Step

[illegible]

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11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990

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Fax: 734-449-9991

Client Name: ATC Associates Inc.Address: 46555 Humboldt Drive, Suite 100City, St., Zip: Novi, Michigan 48377Phone: (248) 669-5140 Fax: (248) 669-5147Date of Survey: 3-14 thru 3-16-11Project: Willow Run Airport - Hanger #2Project #: 34-41498.1101Contact Person: Rob Smith

Lab Use Only

Log-In _____

Report _____

Turn Around Times: (Circle One)

Rush _____ 24 hour _____

48 hour _____ 72 hour 72 hour

Other: _____ TTP _____

1st Positive StepAsbestos: Bulk X Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
1	1-CP-A	2x2 rough Test CP-	2-1		
2	1-CP-B		2-4		
3	1-CP-C		2-6		
4	1-CP-D		2-9		
5	2-PT-A	6"-8" pipe insulation	2-1		
6	2-PT-B		7-14		
7	2-PT-C	above 2-15			
8	2-PT-D		7-5		
9	2-PT-E		4-2		
10	2-PT-F	2nd fl. Hatched in			
11	2-PT-G		5-9		

Relinquished by: M. SmithReceived by: [Signature]Date: 3/17/11Date: 3/16/11 9am**RECEIVED****MAR 18 2011**

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Date: _____

Rev: 12/03

Work Forms: COC

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Client Name: ATC Associates Inc.
 Address: 46555 Humboldt Drive, Suite 100
 City, St., Zip: Novi, Michigan 48377
 Phone: (248) 669-5140 Fax: (248) 669-5147

Date of Survey: 3-14 thru 3-16-11
 Project: Willow Run Airport - Hanger #2
 Project #: 37.4198.1101
 Contact Person: Rob Smith

Lab Use Only
 Log-In _____
 Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

1st Positive Step

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
12	3-WB-A	Wallboard	8-1		
13	3-WB-B		8-5		
14	3-WB-C		8-11		
15	4-FT-A	9x9 Brown tile Bag/10th	8-1		
16	4-FT-B		8-4		
17	4-FT-C		8-10		
18	4-FT-D		6-1		
19	4-FT-E		6-6		
20	4-FT-F		4-1		
21	4-FT-G		4-14		
22	4-FT-H		8-11		

Relinquished by: M. SmithReceived by: J. M. RECEIVED

Relinquished by: _____

Received by: _____

Date: 3/17/11Date: 3/18/11 9am

MAR 18 2011

Date: _____

Date: _____

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990

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Phone: (248) 669-5140 Fax: (248) 669-5147

Date of Survey: 3-14 thru 3-16-11
Project: Willow Run Airport - Hanger #2
Project #: 39.41498.1101
Contact Person: Rob Smith

Lab Use Only
Log-In _____
Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

1st positive stop

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
23	S-BB-A	Brown Paintboard/Adhesive 8-1			
24	S-BB-B		8-7		
25	S-BB-C	↓	8-14		
26	G-P-A	2" x 4" pipe joint ins 8-3			
27	G-P-B		8-12		
28	G-P-C	↓	7-14		
29	7-LP-A	2' x 4' small ground CP 8-2			
30	7-LP-B				
31	7-LP-C				

Relinquished by: M. Smith

Received by: [Signature]

Relinquished by: _____

Received by: _____

Date: 3/17/11

Date: 3/18/11 9am

Date: _____

Date: _____

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MAR 18 2011
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Date of Survey: 3-14 thru 3-16-11
Project: Willow Run Airport - Hanger #2
Project #: 39. 41498. 1101
Contact Person: Rob Smith

Lab Use Only
Log-In _____
Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

1st Positive Step

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
32	8-SD-A	Stall divider ins	8-2		
33	8-SD-B		8-13		
34	8-SD-C		6-1		
35	8-SD-D		6-5		
36	9-PI-A	2"-4" pipe insulation	8-3		
37	9-PI-B		8-12		
38	9-PI-C		7-14		
39	9-PI-D		2x41 Elev. rm		
40	10-ET-A	12x12 Tow. w/lt. Brown/Brn. Floor	7-7		
41	10-ET-B		8-7		
42	10-ET-C		8-14		

Relinquished by: M. Neal

Received by: [Signature]

Date: 3/17/11

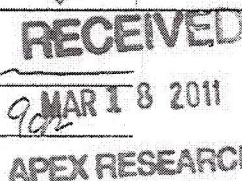
Date: 3/18/11 9:00

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Date: _____

Date: _____



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Date of Survey: 3-14 thru 3-16-11
Project: Willow Run Airport - Hangar #2
Project #: 39.41493.1101
Contact Person: Rob Smith

Lab Use Only
Log-In _____
Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

1st Positive Step

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
43	11-FT-A	989 GWP with white steel FT 8-8	7		
44	11-FT-B		1-5		
45	11-FT-C		1-5		
46	11-FT-D		1-6		
47	12-DS-A	Drywall Separates 8-13			
48	12-DS-B		8-14		
49	12-DS-C		8-15		
50	12-DS-D		7-4		
51	12-DS-E		6-1		
52	12-DS-F		6-5		
53	12-DS-G		6-6		

Relinquished by: M. Smith

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Date: 3/17/11

Date: 3/18/11

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Received by: _____

Date: _____

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Date of Survey: 3-14 thru 3-16-11
 Project: Willow Run Airport - Hanger #2
 Project #: 34.41493.1101
 Contact Person: Rob Smith

Lab Use Only
 Log-In _____
 Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

1st Positive StopAsbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
54	12-DS-H	Drywall Scaffolds 4-1			
55	12-DS-T		3-7		
56	12-DS-J		7-1		
57	13-FT-A	12 x 12 Bayes with white/tau Flak 7-14			
58	13-FT-B				
59	13-FT-C				
60	14-PT-A	6-8" pipe hanger insulate 7-14			
61	14-PT-B				
62	14-PT-C				

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Date: 3/17/11Date: 3/18/11 9am **MAR 18 2011**

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Date: _____

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 Phone: (248) 669-5140 Fax: (248) 669-5147

Date of Survey: 3-14 thru 3-16-11
 Project: Willow Run Airport - Hangar #2
 Project #: 34923.1101
 Contact Person: Rob Sattl

Lab Use Only
 Log-In _____
 Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

1st Positive Step

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
63	15-CP-A	2x4 Tray fiss/porch CP. 8-14			
64	15-CP-B				
65	15-CP-C				
66	16-PJ-A	6"-8" pipe joint trouble (Area above 8-15)			
67	17-TP-A	Transite Panel - Area above 8-15			
68	17-TP-B				
69	17-TP-C				
70	18-SU-A	White sink undercabinet 8-15			
71	19-FT-A	12x12 off white with Black Fleck 7-4			
72	19-FT-B				
73	19-FT-C				

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Received by: _____

Date: _____

Date: _____

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Date of Survey: 3-14 thru 3-16-11
 Project: Willow Run Airport - Hanger #2
 Project #: 34.41498.1101
 Contact Person: Rob Smith

Lab Use Only
 Log-In _____
 Report _____

Turn Around Times: (Circle One)

Rush _____ 24 hour _____
 48 hour _____ 72 hour _____
 Other: _____ TTP _____
 1st Positive Step

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____
 Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____
 Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____
 TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
74	20-CP-A	2x4 pinhole/Gash CP 7-4	7		
75	20-CP-B	7-5			
76	20-CP-C	↓			
77	21-CP-A	2x4 short fissured / long pinhole 7-6	7-6		
78	21-CP-B	7-7			
79	21-CP-C	↓			
80	22-CP-A	2x4 lg fissured / pinhole 7-6	7-6		
81	22-CP-B	7-10			
82	22-CP-C	6-6			
83	22-CP-D	2-5			

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Relinquished by: _____

Received by: _____

Date: 3/17/11Date: 3/18/11

MAR 18 2011

Date: _____

Date: _____

Rev: 12/03
 Work Forms: COC

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Phone: (248) 669-5140 Fax: (248) 669-5147

Date of Survey: 3-14 thru 3-16-11
Project: Willow Run Airport - Hanger #2
Project #: 34. 41998. 1101
Contact Person: Rob Smith

Lab Use Only
Log-In _____
Report _____

Turn Around Times: (Circle One)

Rush _____ 24 hour _____
48 hour _____ 72 hour _____
Other: _____ TTP _____

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____
Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____
Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____
TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

1st positive step

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
84	23-FBL-A	Fiberless bat ceiling (Pena)	7-10		
85	23-FBL-B		7-11		
86	23-FBL-C		7-7		
87	24-PE-A	Pipe wrap w fiberglass	6-1		
88	24-PE-B		6-5		
89	25-FC-A	Floor covering	6-3		
90	25-FC-B				
91	25-FC-C				

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Relinquished by: _____

Received by: _____

Date: 3/17/11

Date: 3/18/11 9am

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Date: _____

Date: _____

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Project #: 39.41498.1101
Contact Person: Rob Smith

Lab Use Only
Log-In _____
Report _____

Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: _____ TTP _____

1st Positive Stop

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
92	26-FWB-A	Fiber wall board G-3			
93	26-FWB-B	G-5			
94	26-FWB-C	G-2			
95	26-FWB-D	G-6			
96	26-FWB-E	G-3			
97	27-FT-A	12x12 Gyp with Blk Stk 5-3			
98	27-FT-B				
99	27-FT-C				

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Received by: [Signature]

Date: 3/17/11

Date: 3/18/11 9am

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APEX RESEARCH

Relinquished by: _____

Received by: _____

Date: _____

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: Willow Run Airport- Hanger #2
Project # 39.41498.1101

Report To:

Mr. Rob Smith
ATC Associates Inc.
46555 Humboldt Drive, Suite 100
Novi, MI 48377

ARI Report # 11-34923
Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 01 Cust. #: 1-CP-A Material: 2x2 Rough Texture Ceiling Panel Location: 8-1 Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 80% Other - 20%
Lab ID #: 34923 - 02 Cust. #: 1-CP-B Material: 2x2 Rough Texture Ceiling Panel Location: 8-4 Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 80% Other - 20%
Lab ID #: 34923 - 03 Cust. #: 1-CP-C Material: 2x2 Rough Texture Ceiling Panel Location: 8-6 Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 80% Other - 20%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: Willow Run Airport- Hanger #2
Project # 39.41498.1101

Report To:

Mr. Rob Smith
ATC Associates Inc.
46555 Humboldt Drive, Suite 100
Novi, MI 48377

ARI Report # 11-34923
Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 04 Cust. #: 1-CP-D Material: 2x2 Rough Texture Ceiling Panel Location: 8-9 Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 80% Other - 20%
Lab ID #: 34923 - 05 Cust. #: 2-PI-A Material: 6"-8" Pipe Insulation Location: 8-1 Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Other - 20%
Lab ID #: 34923 - 06 Cust. #: 2-PI-B Material: 6"-8" Pipe Insulation Location: 7-14 Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Other - 20%

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Robert T. Letarte Jr., Laboratory Director

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Test Method, Polarized Light Microscopy (PLM)



Project: Willow Run Airport- Hanger #2
Project # 39.41498.1101

Report To:

Mr. Rob Smith
ATC Associates Inc.
46555 Humboldt Drive, Suite 100
Novi, MI 48377

ARI Report # 11-34923
Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 07 Cust. #: 2-PI-C Material: 6"-8" Pipe Insulation Location: Above 8-15 Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Other - 20%
Lab ID #: 34923 - 08 Cust. #: 2-PI-D Material: 6"-8" Pipe Insulation Location: 7-5 Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Other - 20%
Lab ID #: 34923 - 09 Cust. #: 2-PI-E Material: 6"-8" Pipe Insulation Location: 4-2 Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 15%	Cellulose - 70% Other - 15%

For Layered Samples, each component will be analyzed and reported separately.

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Robert T. Letarte Jr., Laboratory Director

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Test Method, Polarized Light Microscopy (PLM)



Project: Willow Run Airport- Hanger #2
Project # 39.41498.1101

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Novi, MI 48377

ARI Report # 11-34923
Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 10 Cust. #: 2-PI-F Material: 6"-8" Pipe Insulation Location: 2 nd Floor Electrical Room Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 11 Cust. #: 2-PI-G Material: 6"-8" Pipe Insulation Location: 5-9 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 12 Cust. #: 3-WB-A Material: Wallboard Location: 8-1 Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 5% Other - 95%

A handwritten signature in black ink, appearing to read "Robert Letarte".

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: Willow Run Airport- Hanger #2
Project # 39.41498.1101

Report To:

Mr. Rob Smith
ATC Associates Inc.
46555 Humboldt Drive, Suite 100
Novi, MI 48377

ARI Report # 11-34923
Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 13 Cust. #: 3-WB-B Material: Wallboard Location: 8-5 Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 2% Other - 78%
Lab ID #: 34923 - 14 Cust. #: 3-WB-C Material: Wallboard Location: 8-11 Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Fiberglass - 2% Other - 68%
Lab ID #: 34923 - 15 Cust. #: 4-FT-A Material: 9x9 Brown Floor Tile Location: 8-1 Appearance: brown, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 15a
Cust. #: 4-FT-A
Material: Mastic
Location: 8-1
Appearance: black, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 16
Cust. #: 4-FT-B
Material: 9x9 Brown Floor Tile
Location: 8-4
Appearance:
Layer: 1 of 2

Asbestos Present:

NOT ANALYZED

Lab ID #: 34923 - 16a
Cust. #: 4-FT-B
Material: Mastic
Location: 8-4
Appearance: black, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 17 Cust. #: 4-FT-C Material: 9x9 Brown Floor Tile Location: 8-10 Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 17a Cust. #: 4-FT-C Material: Mastic Location: 8-10 Appearance: black, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 18 Cust. #: 4-FT-D Material: 9x9 Brown Floor Tile Location: 6-1 Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 18a
Cust. #: 4-FT-D
Material: Mastic
Location: 6-1
Appearance: black,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 19
Cust. #: 4-FT-E
Material: 9x9 Brown Floor Tile
Location: 6-6
Appearance:
Layer: 1 of 2

Asbestos Present:

NOT ANALYZED

Lab ID #: 34923 - 19a
Cust. #: 4-FT-E
Material: Mastic
Location: 6-6
Appearance: black,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 20 Cust. #: 4-FT-F Material: 9x9 Brown Floor Tile Location: 4-1 Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 20a Cust. #: 4-FT-F Material: Mastic Location: 4-1 Appearance: black, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other – 100%
Lab ID #: 34923 - 21 Cust. #: 4-FT-G Material: 9x9 Brown Floor Tile Location: 4-14 Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 21a
Cust. #: 4-FT-G
Material: Mastic
Location: 4-14
Appearance: black, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 22
Cust. #: 4-FT-H
Material: 9x9 Brown Floor Tile
Location: 8-11
Appearance:
Layer: 1 of 2

Asbestos Present:

NOT ANALYZED

Lab ID #: 34923 - 22a
Cust. #: 4-FT-H
Material: Mastic
Location: 8-11
Appearance: black, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 23
Cust. #: 5-BB-A
Material: Brown Base Board
Location: 8-1
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 23a
Cust. #: 5-BB-A
Material: Adhesive
Location: 8-1
Appearance: yellow,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 24
Cust. #: 5-BB-B
Material: Brown Base Board
Location: 8-7
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 24a
Cust. #: 5-BB-B
Material: Adhesive
Location: 8-7
Appearance: yellow, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 25
Cust. #: 5-BB-C
Material: Brown Base Board
Location: 8-14
Appearance: brown, nonfibrous, homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 25a
Cust. #: 5-BB-C
Material: Adhesive
Location: 8-14
Appearance: yellow, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 26 Cust. #: 6-PJ-A Material: 2" - 4" Pipe Joint Insulation Location: 8-3 Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 60%	Cellulose - 10% Other - 30%
Lab ID #: 34923 - 27 Cust. #: 6-PJ-B Material: 2" - 4" Pipe Joint Insulation Location: 8-12 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 28 Cust. #: 6-PJ-C Material: 2" - 4" Pipe Joint Insulation Location: 7-14 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

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Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 29 Cust. #: 7-CP-A Material: 2'x4' Small Fissured Ceiling Panel Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%
Lab ID #: 34923 - 30 Cust. #: 7-CP-B Material: 2'x4' Small Fissured Ceiling Panel Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%
Lab ID #: 34923 - 31 Cust. #: 7-CP-C Material: 2'x4' Small Fissured Ceiling Panel Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%

For Layered Samples, each component will be analyzed and reported separately.

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 32
Cust. #: 8-SD-A
Material: Stall Divider Insulation
Location: 8-2
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

Lab ID #: 34923 - 33
Cust. #: 8-SD-B
Material: Stall Divider Insulation
Location: 8-13
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

Lab ID #: 34923 - 34
Cust. #: 8-SD-C
Material: Stall Divider Insulation
Location: 6-1
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 35
Cust. #: 8-SD-D
Material: Stall Divider Insulation
Location: 6-5
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

Lab ID #: 34923 - 36
Cust. #: 9-PI-A
Material: 2"-4" Pipe Insulation
Location: 8-3
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

Lab ID #: 34923 - 37
Cust. #: 9-PI-B
Material: 2"-4" Pipe Insulation
Location: 8-12
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

For Layered Samples, each component will be analyzed and reported separately.

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 38 Cust. #: 9-PI-C Material: 2"-4" Pipe Insulation Location: 7-14 Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 34923 - 39 Cust. #: 9-PI-D Material: 2"-4" Pipe Insulation Location: 2nd Floor Electrical Room Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 34923 - 40 Cust. #: 10-FT-A Material: 12x12 Tan Floor Tile Location: 8-7 Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 41
Cust. #: 10-FT-B
Material: 12x12 Tan Floor Tile
Location: 8-7
Appearance: beige, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 42
Cust. #: 10-FT-C
Material: 12x12 Tan Floor Tile
Location: 8-14
Appearance: beige, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 43
Cust. #: 11-FT-A
Material: 9x9 Green Floor Tile
Location: 8-8
Appearance: green, fibrous, homogenous
Layer: 1 of 2

Asbestos Present: **YES**
Chrysotile - 10%

Other - 90%

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Novi, MI 48377

ARI Report # 11-34923
Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 43a
Cust. #: 11-FT-A
Material: Mastic
Location: 8-8
Appearance: black, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 44
Cust. #: 11-FT-B
Material: 9x9 Green Floor Tile
Location: 1-5
Appearance:
Layer: 1 of 2

Asbestos Present:

NOT ANALYZED

Lab ID #: 34923 - 44a
Cust. #: 11-FT-B
Material: Mastic
Location: 1-5
Appearance: black, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: Willow Run Airport- Hanger #2
Project # 39.41498.1101

Report To:

Mr. Rob Smith
ATC Associates Inc.
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Novi, MI 48377

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Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 45 Cust. #: 11-FT-C Material: 9x9 Green Floor Tile Location: 1-5 Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 45a Cust. #: 11-FT-C Material: Mastic Location: 1-5 Appearance: black, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other – 100%
Lab ID #: 34923 - 46 Cust. #: 11-FT-D Material: 9x9 Green Floor Tile Location: 1-6 Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	

A handwritten signature in black ink, appearing to read "Robert Letarte".

Robert T. Letarte Jr., Laboratory Director

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 46a Cust. #: 11-FT-D Material: Mastic Location: 1-6 Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 47 Cust. #: 12-DS-A Material: Drywall Systems Location: 8-13 Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 34923 - 48 Cust. #: 12-DS-B Material: Drywall Systems Location: 8-14 Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 2% Other - 88%

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 49
Cust. #: 12-DS-C
Material: Drywall Systems
Location: 8-15
Appearance: white, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 40%
Fiberglass - 5%
Other - 55%

Lab ID #: 34923 - 50
Cust. #: 12-DS-D
Material: Drywall Systems
Location: 7-4
Appearance: white, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 20%
Fiberglass - 2%
Other - 78%

Lab ID #: 34923 - 51
Cust. #: 12-DS-E
Material: Drywall Systems
Location: 6-1
Appearance: white, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 40%
Other - 60%

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 52
Cust. #: 12-DS-F
Material: Drywall Systems
Location: 6-5
Appearance: white, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 20%
Other - 80%

Lab ID #: 34923 - 53
Cust. #: 12-DS-G
Material: Drywall Systems
Location: 6-6
Appearance: white, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 20%
Fiberglass - 2%
Other - 78%

Lab ID #: 34923 - 54
Cust. #: 12-DS-H
Material: Drywall Systems
Location: 4-1
Appearance: white, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 40%
Other - 60%

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Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 55 Cust. #: 12-DS-I Material: Drywall Systems Location: 3-7 Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 50% Other - 50%
Lab ID #: 34923 - 56 Cust. #: 12-DS-J Material: Drywall Systems Location: 7-1 Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 2% Other - 78%
Lab ID #: 34923 - 57 Cust. #: 13-FT-A Material: 12x12 Beige Floor Tile Location: 7-14 Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 58
Cust. #: 13-FT-B
Material: 12x12 Beige Floor Tile
Location: 7-14
Appearance: beige, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 59
Cust. #: 13-FT-C
Material: 12x12 Beige Floor Tile
Location: 7-14
Appearance: beige, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 60
Cust. #: 14-PI-A
Material: 6"-8" Pipe Hanger Insulation
Location: 7-14
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **YES**
Chrysotile - 10%

Mineral Wool - 70%
Other - 20%

For Layered Samples, each component will be analyzed and reported separately.

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 61 Cust. #: 14-PI-B Material: 6"-8" Pipe Hanger Insulation Location: 7-14 Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 62 Cust. #: 14-PI-C Material: 6"-8" Pipe Hanger Insulation Location: 7-14 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 63 Cust. #: 15-CP-A Material: 2x4 Tiny Fissure Ceiling Panel Location: 8-14 Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 64 Cust. #: 15-CP-B Material: 2x4 Tiny Fissure Ceiling Panel Location: 8-15 Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%
Lab ID #: 34923 - 65 Cust. #: 15-CP-C Material: 2x4 Tiny Fissure Ceiling Panel Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%
Lab ID #: 34923 - 66 Cust. #: 16-PJ-A Material: 6"-8" Pipe Joint Insulation Location: Area Above 8-15 Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 50%	Other - 50%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 67 Cust. #: 17-TP-A Material: Transite Panel Location: Area Above 8-15 Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile – 40%	Other - 60%
Lab ID #: 34923 - 68 Cust. #: 17-TP-B Material: Transite Panel Location: Exterior E. Side Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 69 Cust. #: 17-TP-C Material: Transite Panel Location: Bay 8 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

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Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 70
Cust. #: 18-SU-A
Material: White Sink Undercoating
Location: 8-15
Appearance: white, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **YES**
Chrysotile - 20%

Other - 80%

Lab ID #: 34923 - 71
Cust. #: 19-FT-A
Material: 12x12 Off-White Floor Tile
Location: 7-4
Appearance: beige, fibrous, homogenous
Layer: 1 of 2

Asbestos Present: **YES**
Chrysotile - 2%

Other - 98%

Lab ID #: 34923 - 71a
Cust. #: 19-FT-A
Material: Mastic
Location: 7-4
Appearance: black, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 72 Cust. #: 19-FT-B Material: 12x12 Off-White Floor Tile Location: 7-7 Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 72a Cust. #: 19-FT-B Material: Mastic Location: 7-7 Appearance: black, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 73 Cust. #: 19-FT-C Material: 12x12 Off-White Floor Tile Location: 1-1 Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	

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Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 73a
Cust. #: 19-FT-C
Material: Mastic
Location:
Appearance: black,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 74
Cust. #: 20-CP-A
Material: 2x4 Pinhole/Gash Ceiling Panel
Location: 7-4
Appearance: beige,fibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 30%
Mineral Wool - 30%
Perlite - 20%
Other - 20%

Lab ID #: 34923 - 75
Cust. #: 20-CP-B
Material: 2x4 Pinhole/Gash Ceiling Panel
Location: 7-5
Appearance: beige,fibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 30%
Mineral Wool - 30%
Perlite - 20%
Other - 20%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 76 Cust. #: 20-CP-C Material: 2x4 Pinhole/Gash Ceiling Panel Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%
Lab ID #: 34923 - 77 Cust. #: 21-CP-A Material: 2x4 Short Fissured Ceiling Panel Location: 7-6 Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%
Lab ID #: 34923 - 78 Cust. #: 21-CP-B Material: 2x4 Short Fissured Ceiling Panel Location: 7-7 Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 79 Cust. #: 21-CP-C Material: 2x4 Short Fissured Ceiling Panel Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%
Lab ID #: 34923 - 80 Cust. #: 22-CP-A Material: 2x4 Large Fissured Ceiling Panel Location: 7-6 Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%
Lab ID #: 34923 - 81 Cust. #: 22-CP-B Material: 2x4 Large Fissured Ceiling Panel Location: 7-10 Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%

For Layered Samples, each component will be analyzed and reported separately.

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Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: Willow Run Airport- Hanger #2
Project # 39.41498.1101

Report To:

Mr. Rob Smith
ATC Associates Inc.
46555 Humboldt Drive, Suite 100
Novi, MI 48377

ARI Report # 11-34923
Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 82 Cust. #: 22-CP-C Material: 2x4 Large Fissured Ceiling Panel Location: 6-6 Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%
Lab ID #: 34923 - 83 Cust. #: 22-CP-D Material: 2x4 Large Fissured Ceiling Panel Location: 2-5 Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%
Lab ID #: 34923 - 84 Cust. #: 23-FBC-A Material: Fiberglass Bat Covering Location: 7-10 Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 90% Other - 10%

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ARI Report # 11-34923
Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 85
Cust. #: 23-FBC-B
Material: Fiberglass Bat Covering
Location: 7-11
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

Lab ID #: 34923 - 86
Cust. #: 23-FBC-C
Material: Fiberglass Bat Covering
Location: 7-7
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

Lab ID #: 34923 - 87
Cust. #: 24-PI-A
Material: Pipe Wrap on Fiberglass
Location: 6-1
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Mineral Wool - 80%
Other - 20%

For Layered Samples, each component will be analyzed and reported separately.

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 88 Cust. #: 24-PI-B Material: Pipe Wrap on Fiberglass Location: 6-5 Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 80% Other - 20%
Lab ID #: 34923 - 89 Cust. #: 25-FC-A Material: Floor Covering Location: 6-3 Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Fiberglass - 40% Other - 60%
Lab ID #: 34923 - 90 Cust. #: 25-FC-B Material: Floor Covering Location: 6-3 Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 40% Other - 60%

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 91
Cust. #: 25-FC-C
Material: Floor Covering
Location: 6-3
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Fiberglass - 40%
Other - 60%

Lab ID #: 34923 - 92
Cust. #: 26-FWB-A
Material: Fiber Wall Board
Location: 6-3
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

Lab ID #: 34923 - 93
Cust. #: 26-FWB-B
Material: Fiber Wall Board
Location: 6-5
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 94
Cust. #: 26-FWB-C
Material: Fiber Wall Board
Location: 6-2
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

Lab ID #: 34923 - 95
Cust. #: 26-FWB-D
Material: Fiber Wall Board
Location: 6-6
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

Lab ID #: 34923 - 96
Cust. #: 26-FWB-E
Material: Fiber Wall Board
Location: 4-3
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 97
Cust. #: 27-FT-A
Material: 12x12 Grey Floor Tile
Location: 5-3
Appearance: grey, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 98
Cust. #: 27-FT-B
Material: 12x12 Grey Floor Tile
Location: 5-3
Appearance: grey, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 99
Cust. #: 27-FT-C
Material: 12x12 Grey Floor Tile
Location: 5-3
Appearance: grey, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 100 Cust. #: 28-CP-A Material: 2x4 Medium Fissure Ceiling Panel Location: 4-1 Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%
Lab ID #: 34923 - 101 Cust. #: 28-CP-B Material: 2x4 Medium Fissure Ceiling Panel Location: 4-3 Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%
Lab ID #: 34923 - 102 Cust. #: 28-CP-C Material: 2x4 Medium Fissure Ceiling Panel Location: 4-12 Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 103 Cust. #: 28-CP-D Material: 2x4 Medium Fissure Ceiling Panel Location: 3-2 Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%
Lab ID #: 34923 - 104 Cust. #: 29-WPM-A Material: Weatherproofing Material Location: 4-3 Appearance: brown, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 34923 - 104a Cust. #: 29-WPM-A Material: Coating Location: 4-3 Appearance: black, fibrous, homogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%

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ARI Report # 11-34923
Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 105
Cust. #: 30-WG-A
Material: Window Glaze
Location: 4-3
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 106
Cust. #: 30-WG-B
Material: Window Glaze
Location: 4-11
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 107
Cust. #: 30-WG-C
Material: Window Glaze
Location: 2-16
Appearance: white,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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ARI Report # 11-34923
Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 108
Cust. #: 30-WG-D
Material: Window Glaze
Location: 1-9(2)
Appearance: grey, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 109
Cust. #: 30-WG-E
Material: Window Glaze
Location: 7-2
Appearance: white, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **YES**
Chrysotile - 2%

Other - 98%

Lab ID #: 34923 - 110
Cust. #: 30-WG-F
Material: Window Glaze
Location: 5-14
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 111
Cust. #: 31-FT-A
Material: 12x12 Tan Floor Tile
Location: 4-5
Appearance: beige, nonfibrous, homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 111a
Cust. #: 31-FT-A
Material: Mastic
Location: 4-5
Appearance: black, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 112
Cust. #: 31-FT-B
Material: 12x12 Tan Floor Tile
Location: 4-5
Appearance: beige, nonfibrous, homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 112a
Cust. #: 31-FT-B
Material: Mastic
Location: 4-5
Appearance: black,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 113
Cust. #: 31-FT-C
Material: 12x12 Tan Floor Tile
Location: 4-5
Appearance: beige,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 113a
Cust. #: 31-FT-C
Material: Mastic
Location: 4-5
Appearance: black,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 114
Cust. #: 32-CP-A
Material: 2x2 Rough Texture Ceiling Panel
Location: 4-13
Appearance: beige, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Mineral Wool - 80%
Other - 20%

Lab ID #: 34923 - 115
Cust. #: 32-CP-B
Material: 2x2 Rough Texture Ceiling Panel
Location: 4-13
Appearance: beige, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Mineral Wool - 80%
Other - 20%

Lab ID #: 34923 - 116
Cust. #: 32-CP-C
Material: 2x2 Rough Texture Ceiling Panel
Location: 4-13
Appearance: beige, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Mineral Wool - 80%
Other - 20%

For Layered Samples, each component will be analyzed and reported separately.

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: Willow Run Airport- Hanger #2
Project # 39.41498.1101

Report To:

Mr. Rob Smith
ATC Associates Inc.
46555 Humboldt Drive, Suite 100
Novi, MI 48377

ARI Report # 11-34923
Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 117
Cust. #: 33-BB-A
Material: Black Baseboard
Location: 4-13
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 117a
Cust. #: 33-BB-A
Material: Adhesive
Location: 4-13
Appearance: yellow,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 118
Cust. #: 33-BB-B
Material: Black Baseboard
Location: 4-14
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

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Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 118a
Cust. #: 33-BB-B
Material: Adhesive
Location: 4-14
Appearance: yellow,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 119
Cust. #: 33-BB-C
Material: Black Baseboard
Location: 2-4
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 119a
Cust. #: 33-BB-C
Material: Adhesive
Location: 2-4
Appearance: yellow,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 120
Cust. #: 34-FWB-A
Material: Fiber Wall Board
Location: 4-14
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

Lab ID #: 34923 - 121
Cust. #: 34-FWB-B
Material: Fiber Wall Board
Location: 4-14
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

Lab ID #: 34923 - 122
Cust. #: 34-FWB-C
Material: Fiber Wall Board
Location: 4-14
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

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Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 123
Cust. #: 35-FD-A
Material: Firedoor Insulation
Location: 3-1
Appearance: white, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Perlite - 50%
Other - 50%

Lab ID #: 34923 - 124
Cust. #: 36-CP-A
Material: 2x4 Large Fissured Ceiling Panel
Location: 2-1
Appearance: beige, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 30%
Mineral Wool - 30%
Perlite - 20%
Other - 20%

Lab ID #: 34923 - 125
Cust. #: 36-CP-B
Material: 2x4 Large Fissured Ceiling Panel
Location: 2-16
Appearance: beige, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 30%
Mineral Wool - 30%
Perlite - 20%
Other - 20%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 126 Cust. #: 36-CP-C Material: 2x4 Large Fissured Ceiling Panel Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%
Lab ID #: 34923 - 127 Cust. #: 37-WC-A Material: Window Caulk Location: 2-16 Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 128 Cust. #: 37-WC-B Material: Window Caulk Location: 1-9(2) Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 129 Cust. #: 37-WC-C Material: Window Caulk Location: 1-9(1) Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 130 Cust. #: 38-FT-A Material: 9x9 Tan Floor Tile Location: 1-1 Appearance: brown, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 34923 - 130a Cust. #: 38-FT-A Material: Mastic Location: 1-1 Appearance: black, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 131 Cust. #: 38-FT-B Material: 9x9 Tan Floor Tile Location: 1-1 Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 131a Cust. #: 38-FT-B Material: Mastic Location: 1-1 Appearance: black, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 132 Cust. #: 38-FT-C Material: 9x9 Tan Floor Tile Location: 1-1 Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	

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Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 132a
Cust. #: 38-FT-C
Material: Mastic
Location: 1-1
Appearance: black,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 133
Cust. #: 39-CT-A
Material: 1x1 Irregular Dot Ceiling Tile
Location: 1-6
Appearance: beige,fibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

Lab ID #: 34923 - 133a
Cust. #: 39-CT-A
Material: Glue Pod
Location: 1-6
Appearance: brown,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 134
Cust. #: 39-CT-B
Material: 1x1 Irregular Dot Ceiling Tile
Location: 1-6
Appearance: brown, fibrous, homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

Lab ID #: 34923 - 134a
Cust. #: 39-CT-B
Material: Glue Pod
Location: 1-6
Appearance: brown, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 135
Cust. #: 39-CT-C
Material: 1x1 Irregular Dot Ceiling Tile
Location: 1-6
Appearance: brown, fibrous, homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 135a Cust. #: 39-CT-C Material: Glue Pod Location: 1-6 Appearance: brown,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 136 Cust. #: 40-TD-A Material: Transite Duct Location: 1-9(2) Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 40%	Other - 60%
Lab ID #: 34923 - 137 Cust. #: 40-TD-B Material: Transite Duct Location: 7-1 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 138 Cust. #: 40-TD-C Material: Transite Duct Location: 7-2 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 139 Cust. #: 40-TD-D Material: Transite Duct Location: 5-8 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 140 Cust. #: 40-TD-E Material: Transite Duct Location: 4-16 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 141 Cust. #: 40-TD-F Material: Transite Duct Location: 2-19 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 142 Cust. #: 40-TD-G Material: Transite Duct Location: 6-12 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 143 Cust. #: 41-FT-A Material: 9x9 Black Floor Tile Location: 1-9(2) Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile – 10%	Other - 90%

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Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 143a
Cust. #: 41-FT-A
Material: Mastic
Location: 1-9(2)
Appearance: black, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 144
Cust. #: 41-FT-B
Material: 9x9 Black Floor Tile
Location: 1-9(2)
Appearance:
Layer: 1 of 2

Asbestos Present:

NOT ANALYZED

Lab ID #: 34923 - 144a
Cust. #: 41-FT-B
Material: Mastic
Location: 1-9(2)
Appearance: black, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 145 Cust. #: 41-FT-C Material: 9x9 Black Floor Tile Location: 1-9(2) Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 145a Cust. #: 41-FT-C Material: Mastic Location: 1-9(2) Appearance: black, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 146 Cust. #: 42-FT-A Material: 12x12 Brown Floor Tile Location: 8-17 Appearance: brown, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Synthetic - 2% Other - 98%

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 146a Cust. #: 42-FT-A Material: Mastic Location: 8-17 Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 147 Cust. #: 42-FT-B Material: 12x12 Brown Floor Tile Location: 8-17 Appearance: brown,fibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Synthetic - 2% Other - 98%
Lab ID #: 34923 - 147a Cust. #: 42-FT-B Material: Mastic Location: 8-17 Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: Willow Run Airport- Hanger #2
Project # 39.41498.1101

Report To:

Mr. Rob Smith
ATC Associates Inc.
46555 Humboldt Drive, Suite 100
Novi, MI 48377

ARI Report # 11-34923
Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 148 Cust. #: 42-FT-C Material: 12x12 Brown Floor Tile Location: 8-17 Appearance: brown,fibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Synthetic - 2% Other - 98%
Lab ID #: 34923 - 148a Cust. #: 42-FT-C Material: Mastic Location: 8-17 Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 149 Cust. #: 43-LN-A Material: Brown Mosaic Linoleum Location: 8-30 Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Synthetic - 20% Other - 80%

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Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 150
Cust. #: 43-LN-B
Material: Brown Mosaic Linoleum
Location: 8-30
Appearance: grey, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Synthetic - 20%
Other - 80%

Lab ID #: 34923 - 151
Cust. #: 43-LN-C
Material: Brown Mosaic Linoleum
Location: 8-30
Appearance: grey, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Synthetic - 20%
Other - 80%

Lab ID #: 34923 - 152
Cust. #: 44-GK-A
Material: Fan Unit Gasket
Location: 7-2
Appearance: grey, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Mineral Wool - 90%
Other - 10%

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Date Collected: 3/14-3/16/11
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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 153
Cust. #: 44-GK-B
Material: Fan Unit Gasket
Location: 7-2
Appearance: grey, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Mineral Wool - 90%
Other - 10%

Lab ID #: 34923 - 154
Cust. #: 44-GK-C
Material: Fan Unit Gasket
Location: 6-12
Appearance: grey, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Mineral Wool - 90%
Other - 10%

Lab ID #: 34923 - 155
Cust. #: 44-GK-D
Material: Fan Unit Gasket
Location: 2-19
Appearance: grey, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Mineral Wool - 90%
Other - 10%

For Layered Samples, each component will be analyzed and reported separately.

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 156
Cust. #: 45-FB-A
Material: Firebrick
Location: 7-2
Appearance: beige,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 157
Cust. #: 45-FB-B
Material: Firebrick
Location: 7-2
Appearance: beige,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 158
Cust. #: 45-FB-C
Material: Firebrick
Location: 7-2
Appearance: beige,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 159 Cust. #: 46-BI-A Material: Boiler Insulation Location: 7-2 Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 60%	Other - 40%
Lab ID #: 34923 - 160 Cust. #: 46-BI-B Material: Boiler Insulation Location: 7-2 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 161 Cust. #: 46-BI-C Material: Boiler Insulation Location: 7-2 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 162 Cust. #: 47-TK-A Material: Tank Insulation Location: 7-2 Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 50%	Mineral Wool - 10% Other - 40%
Lab ID #: 34923 - 163 Cust. #: 47-TK-B Material: Tank Insulation Location: 7-2 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 164 Cust. #: 47-TK-C Material: Tank Insulation Location: 7-2 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 165 Cust. #: 48-PI-A Material: Boiler Pipe Insulation Location: 7-2 Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 60%	Cellulose - 10% Other - 30%
Lab ID #: 34923 - 166 Cust. #: 48-PI-B Material: Boiler Pipe Insulation Location: 7-2 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 167 Cust. #: 48-PI-C Material: Boiler Pipe Insulation Location: 7-2 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

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Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 168 Cust. #: 49-PJ-A Material: Boiler Pipe Joint Location: 7-2 Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 30%	Mineral Wool - 5% Other - 65%
Lab ID #: 34923 - 169 Cust. #: 49-PJ-B Material: Boiler Pipe Joint Location: 7-2 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 170 Cust. #: 49-PJ-C Material: Boiler Pipe Joint Location: 7-2 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

Robert T. Letarte Jr., Laboratory Director

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 171
Cust. #: 50-RB-A
Material: Refractory Brick
Location: 7-2
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 172
Cust. #: 50-RB-B
Material: Refractory Brick
Location: 7-2
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 173
Cust. #: 50-RB-C
Material: Refractory Brick
Location: 7-2
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 174 Cust. #: 51-FB-A Material: Firebrick Location: 7-2 Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 175 Cust. #: 51-FB-B Material: Firebrick Location: 7-2 Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 176 Cust. #: 51-FB-C Material: Firebrick Location: 7-2 Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 177
Cust. #: 52-BC-A
Material: Boiler Caulk
Location: 7-2
Appearance: brown, fibrous, homogenous
Layer: 1 of 2

Asbestos Present: **YES**
Chrysotile - 10%

Other - 90%

Lab ID #: 34923 - 177a
Cust. #: 52-BC-A
Material: Gasket
Location: 7-2
Appearance: grey, fibrous, homogenous
Layer: 2 of 2

Asbestos Present: **YES**
Chrysotile - 80%

Other - 20%

Lab ID #: 34923 - 178
Cust. #: 52-BC-B
Material: Boiler Caulk/Gasket
Location: 7-2
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

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Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 179 Cust. #: 52-BC-C Material: Boiler Caulk/Gasket Location: 7-2 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 180 Cust. #: 53-TT-A Material: Black Table Top Location: 6-14 Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 30%	Other - 70%
Lab ID #: 34923 - 181 Cust. #: 53-TT-B Material: Black Table Top Location: 6-14 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

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Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 182 Cust. #: 53-TT-C Material: Black Table Top Location: 6-14 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 183 Cust. #: 54-CPC-A Material: Concrete Pipe Coating Location: 6-12 Tunnel Appearance: black,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 184 Cust. #: 54-CPC-B Material: Concrete Pipe Coating Location: 6-12 Tunnel Appearance: black,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 185
Cust. #: 54-CPC-C
Material: Concrete Pipe Coating
Location: 6-12 Tunnel
Appearance: black, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 186
Cust. #: 55-CPS-A
Material: Concrete Pipe Sealant
Location: 6-12 Tunnel
Appearance: black, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **YES**
Chrysotile - 15%

Cellulose - 10%
Other - 75%

Lab ID #: 34923 - 187
Cust. #: 55-CPS-B
Material: Concrete Pipe Sealant
Location: 6-12 Tunnel
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

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Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 188 Cust. #: 55-CPS-C Material: Concrete Pipe Sealant Location: 6-12 Tunnel Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 189 Cust: #56-ESB-A Material: Exhaust Stack Brick Location: 6-12 Appearance: red,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 190 Cust: #56-ESB-B Material: Exhaust Stack Brick Location: 6-12 Appearance: red,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

A handwritten signature in black ink, appearing to read "Robert Letarte".

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: Willow Run Airport- Hanger #2
Project # 39.41498.1101

Report To:

Mr. Rob Smith
ATC Associates Inc.
46555 Humboldt Drive, Suite 100
Novi, MI 48377

ARI Report # 11-34923
Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 191
Cust. #: 56-ESB-C
Material: Exhaust Stack Brick
Location: 6-12
Appearance: red, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 192
Cust. #: 57-FC-A
Material: Fan Unit Caulk
Location: 6-12
Appearance: black, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **YES**
Chrysotile - 15%

Other - 85%

Lab ID #: 34923 - 193
Cust. #: 57-FC-B
Material: Fan Unit Caulk
Location:
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

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NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189 (734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis

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Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 194 Cust. #: 57-FC-C Material: Fan Unit Caulk Location: 2-14 Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 195 Cust. #: 58-BC-A Material: Boiler Caulk Location: 6-12 Appearance: beige, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 34923 - 195a Cust. #: 58-BC-A Material: Gasket Location: 6-12 Appearance: white, fibrous, homogenous Layer: 2 of 2	Asbestos Present: YES Chrysotile - 70%	Other - 30%

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 196 Cust. #: 58-BC-B Material: Boiler Caulk/Gasket Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 197 Cust. #: 58-BC-C Material: Boiler Caulk/Gasket Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 198 Cust. #: 59-FB-A Material: Firebrick Location: 6-12 Appearance: beige, nonfibrinous, homogenous: Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 199
Cust. #: 59-FB-B
Material: Firebrick
Location: 6-12
Appearance: beige, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 200
Cust. #: 59-FB-C
Material: Firebrick
Location: 6-12
Appearance: beige, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 201
Cust. #: 60-BC-A
Material: Boiler Refractory
Location: 6-12
Appearance: grey, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 202
Cust. #: 60-BC-B
Material: Boiler Refractory
Location: 6-12
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 203
Cust. #: 60-BC-C
Material: Boiler Refractory
Location: 6-12
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 204
Cust. #: 61-FT-A
Material: 12x12 Beige Floor Tile
Location: 5-14
Appearance: white,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 205
Cust. #: 61-FT-B
Material: 12x12 Beige Floor Tile
Location: 5-14
Appearance: white, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 206
Cust. #: 61-FT-C
Material: 12x12 Beige Floor Tile
Location: 5-14
Appearance: white, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 207
Cust. #: 62-FT-A
Material: Tile Under 61-FT
Location: 5-14
Appearance: red, fibrous, homogenous
Layer: 1 of 2

Asbestos Present: **YES**
Chrysotile - 10%

Other - 90%

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 207a
Cust. #: 62-FT-A
Material: Mastic
Location: 5-14
Appearance: black, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 208
Cust. #: 63-CP-A
Material: 2x2 Light Rough Texture Floor Tile
Location: 5-8
Appearance: white, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 30%
Mineral Wool - 30%
Perlite - 20%
Other - 20%

Lab ID #: 34923 - 209
Cust. #: 63-CP-B
Material: 2x2 Light Rough Texture Floor Tile
Location: 5-8
Appearance: white, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 30%
Mineral Wool - 30%
Perlite - 20%
Other - 20%

For Layered Samples, each component will be analyzed and reported separately.

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Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 210 Cust. #: 63-CP-C Material: 2x2 Light Rough Texture Floor Tile Location: 5-8 Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%
Lab ID #: 34923 - 211 Cust. #: 64-CT-A Material: 1x1 White Ceiling Tile Location: 4-20 Appearance: brown,fibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Perlite - 10% Other - 10%
Lab ID #: 34923 - 211a Cust. #: 64-CT-A Material: Glue Pod Location: 4-20 Appearance: brown,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 212 Cust. #: 64-CT-B Material: 1x1 White Ceiling Tile Location: 4-20 Appearance: brown,fibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Perlite - 10% Other - 10%
Lab ID #: 34923 - 212a Cust. #: 64-CT-B Material: Glue Pod Location: 4-20 Appearance: brown,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 213 Cust. #: 64-CT-C Material: 1x1 White Ceiling Tile Location: 4-20 Appearance: brown,fibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Perlite - 10% Other - 10%

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Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 213a
Cust. #: 64-CT-C
Material: Glue Pod
Location: 4-20
Appearance: brown,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 214
Cust. #: 65-FT-A
Material: 12x12 Light Blue Floor Tile
Location: 3-13
Appearance: beige,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 214a
Cust. #: 65-FT-A
Material: Mastic
Location: 3-13
Appearance: black,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 215
Cust. #: 65-FT-B
Material: 12x12 Light Blue Floor Tile
Location: 3-13
Appearance: beige, nonfibrous, homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 215A
Cust. #: 65-FT-B
Material: Mastic
Location: 3-13
Appearance: black, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 216
Cust. #: 65-FT-C
Material: 12x12 Light Blue Floor Tile
Location: 3-13
Appearance: beige, nonfibrous, homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 216a
Cust. #: 65-FT-C
Material: Mastic
Location: 3-13
Appearance: black,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 217
Cust. #: 66-FT-A
Material: Tan Floor Tile Under 65-FT
Location: 3-13
Appearance: beige,fibrous,homogenous
Layer: 1 of 2

Asbestos Present: **YES**
Chrysotile - 10%

Other - 90%

Lab ID #: 34923 - 217a
Cust. #: 66-FT-A
Material: Mastic
Location: 3-13
Appearance: black,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 218
Cust. #: 67-FT-A
Material: 12x12 Maroon Floor Tile
Location: 3-12
Appearance: red,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 219
Cust. #: 67-FT-B
Material: 12x12 Maroon Floor Tile
Location: 3-12
Appearance: red,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 220
Cust. #: 67-FT-C
Material: 12x12 Maroon Floor Tile
Location: 3-12
Appearance: red,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 221
Cust. #: 68-FT-A
Material: Tile Under 67-FT
Location: 3-12
Appearance: brown, fibrous, homogenous
Layer: 1 of 2

Asbestos Present: **YES**
Chrysotile - 2%

Other - 98%

Lab ID #: 34923 - 221a
Cust. #: 68-FT-A
Material: Mastic
Location: 3-12
Appearance: black, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 222
Cust. #: 69-FT-A
Material: 12x12 Black Floor Tile
Location: 2-26
Appearance: black, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: Willow Run Airport- Hanger #2
Project # 39.41498.1101

Report To:

Mr. Rob Smith
ATC Associates Inc.
46555 Humboldt Drive, Suite 100
Novi, MI 48377

ARI Report # 11-34923
Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 223
Cust. #: 69-FT-B
Material: 12x12 Black Floor Tile
Location: 2-26
Appearance: black,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 224
Cust. #: 69-FT-C
Material: 12x12 Black Floor Tile
Location: 2-26
Appearance: black,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 225
Cust. #: 70-FT-A
Material: Tile Under 69-FT
Location: 2-26
Appearance: white,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 226 Cust. #: 71-FT-A Material: Tile Under Raised Floor Location: 2-26 Appearance: brown,fibrous,homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 34923 - 226a Cust. #: 71-FT-A Material: Mastic Location: 2-26 Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 227 Cust. #: 72-FT-A Material: Tile Under 12x12 Black Floor Tile Location: 2-24 Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 227a Cust. #: 72-FT-A Material: Mastic Location: 2-24 Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 228 Cust. #: 73-BC-A Material: Gasket/Boiler Caulk Location: 2-26 Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 70%	Other - 30%
Lab ID #: 34923 - 229 Cust. #: 74-TK-A Material: Tank Insulation Location: 2-26 Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 80%	Other - 20%

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 230 Cust. #: 75-BT-A Material: Boiler Insulation Location: 2-26 Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 80%	Other - 20%
Lab ID #: 34923 - 231 Cust. #: 76-WG-A Material: Exterior Window Glaze Location: Hanger by Doors Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 2%	Other - 98%
Lab ID #: 34923 - 232 Cust. #: 76-WG-B Material: Exterior Window Glaze Location: Hanger by Doors Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 233
Cust. #: 76-WG-C
Material: Exterior Window Glaze
Location: Hanger by Doors
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

Lab ID #: 34923 - 234
Cust. #: 77-SC-A
Material: Floor Seam Caulk
Location: Bay 1
Appearance: black, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 5%
Other - 95%

Lab ID #: 34923 - 235
Cust. #: 77-SC-B
Material: Floor Seam Caulk
Location: Bay 6
Appearance: black, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 10%
Other - 90%

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 236
Cust. #: 78-FT-A
Material: 12x12 Off-White Floor Tile
Location: Bay 5
Appearance: white, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 237
Cust. #: 78-FT-B
Material: 12x12 Off-White Floor Tile
Location: Bay 5
Appearance: white, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 34923 - 238
Cust. #: 78-FT-C
Material: 12x12 Off-White Floor Tile
Location: Bay 5
Appearance: white, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 239 Cust. #: 79-CP-A Material: 2x4 Scatter Pinhole Ceiling Panel Location: Bay 6 Office Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%
Lab ID #: 34923 - 240 Cust. #: 79-CP-B Material: 2x4 Scatter Pinhole Ceiling Panel Location: Bay 6 Office Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%
Lab ID #: 34923 - 241 Cust. #: 79-CP-C Material: 2x4 Scatter Pinhole Ceiling Panel Location: Bay 6 Office Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Mineral Wool - 30% Perlite - 20% Other - 20%

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Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 242
Cust. #: 80-GK-A
Material: Boiler Rope Gasket
Location: Bay 6
Appearance: beige, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Fiberglass - 90%
Other - 10%

Lab ID #: 34923 - 243
Cust. #: 80-GK-B
Material: Boiler Rope Gasket
Location: Bay 6
Appearance: beige, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Fiberglass - 90%
Other - 10%

Lab ID #: 34923 - 244
Cust. #: 80-GK-C
Material: Boiler Rope Gasket
Location: Bay 6
Appearance: beige, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Fiberglass - 90%
Other - 10%

For Layered Samples, each component will be analyzed and reported separately.

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Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 245
Cust. #: 81-BP-A
Material: Boiler Plate Mud
Location: Bay 6
Appearance: grey, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **YES**
Chrysotile – 10%

Other - 90%

Lab ID #: 34923 - 246
Cust. #: 81-BP-B
Material: Boiler Plate Mud
Location: Bay 6
Appearance:
Layer:

Asbestos Present:

NOT ANALYZED

Lab ID #: 34923 - 247
Cust. #: 81-BP-C
Material: Boiler Plate Mud
Location: Bay 6
Appearance:
Layer:

Asbestos Present:

NOT ANALYZED

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 248 Cust. #: 82-PJ-A Material: 6"-8" Pipe Joint on Fiberglass Location: Bay 6 Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 40% Other - 60%
Lab ID #: 34923 - 249 Cust. #: 83-PJ-A Material: 2"-4" Pipe Joint on Fiberglass Location: Bay 6 Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 30% Other - 70%
Lab ID #: 34923 - 250 Cust. #: 84-PI-A Material: Fuel Pipe Wrap Location: Exterior Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 60%	Fiberglass - 10% Other - 30%

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 251 Cust. #: 85-RM-A Material: Rubber Location: Upper Appearance: black,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 251a Cust. #: 85-RM-A Material: Foam Location: Upper Appearance: yellow,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 251b Cust. #: 85-RM-A Material: Tar Location: Upper Appearance: black,fibrous,homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Other - 60%

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Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 252 Cust. #: 85-RM-B Material: Foam Location: Middle Appearance: yellow,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 252a Cust. #: 85-RM-B Material: Tar Location: Middle Appearance: black,fibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 34923 - 253 Cust. #: 85-RM-C Material: Rubber Location: Lower Appearance: black,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 253a Cust. #: 85-RM-C Material: Foam Location: Lower Appearance: yellow,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 253b Cust. #: 85-RM-C Material: Tar Location: Lower Appearance: black,fibrous,homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 34923 - 254 Cust. #: 86-RF-A Material: Roof Flashing Location: Upper Appearance: black,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 5% Other - 95%

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Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 255
Cust. #: 86-FR-B
Material: Roof Flashing
Location: Middle
Appearance: black, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 5%
Other - 95%

Lab ID #: 34923 - 256
Cust. #: 86-RF-C
Material: Roof Flashing
Location: Lower
Appearance: black, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **YES**
Chrysotile - 10%

Other - 90%

Lab ID #: 34923 - 257
Cust. #: 87-ACT-A
Material: Air Condition Tar
Location: Roof
Appearance: black, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **YES**
Chrysotile - 10%

Other - 90%

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Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Willow Run Airport- Hanger #2
Project # 39.41498.1101

Report To:

Mr. Rob Smith
ATC Associates Inc.
46555 Humboldt Drive, Suite 100
Novi, MI 48377

ARI Report # 11-34923
Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 267 Cust. #: 90-EWG-B Material: Exterior Window Glaze Location: W Side Middle Appearance: Layer: 1 of 1	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 268 Cust. #: 90-EWG-C Material: Exterior Window Glaze Location: W Side S Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 269 Cust. #: 91-EWC-A Material: Exterior Window Caulk Location: W Side N Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

Robert T. Letarte Jr., Laboratory Director

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Project: Willow Run Airport- Hanger #2
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ARI Report # 11-34923
Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information

Asbestos Type/Percent

Non-Asbestos

Lab ID #: 34923 - 261 Cust. #: 88-EBC-B Material: Exterior Window Caulk Location: Lower Roof Appearance: Layer: 1 of 1	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 262 Cust. #: 88-EBC-C Material: Exterior Window Glaze Location: Lower Roof Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 263 Cust. #: 89-ECW-A Material: Exterior Window Caulk Location: Middle Roof W Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately

A handwritten signature in black ink, appearing to read "Robert J. Smith".

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189 (734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)



Project: Willow Run Airport- Hanger #2
Project # 39.41498.1101

Report To:

Mr. Rob Smith
ATC Associates Inc.
46555 Humboldt Drive, Suite 100
Novi, MI 48377

ARI Report # 11-34923
Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 264 Cust. #: 89-EWC-B Material: Exterior Window Caulk Location: Middle Roof W Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 265 Cust. #: 89-EWC Material: Exterior Window Caulk Location: Middle Roof W Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 34923 - 266 Cust. #: 90-EWG-A Material: Exterior Window Glaze Location: W Side N Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert Letarte".

Robert T. Letarte Jr., Laboratory Director

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Test Method, Polarized Light Microscopy (PLM)



Project: Willow Run Airport- Hanger #2
Project # 39.41498.1101

Report To:

Mr. Rob Smith
ATC Associates Inc.
46555 Humboldt Drive, Suite 100
Novi, MI 48377

ARI Report # 11-34923
Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information**Asbestos Type/Percent****Non-Asbestos**

Lab ID #: 34923 - 267
Cust. #: 90-EWG-B
Material: Exterior Window Glaze
Location: W Side Middle
Appearance:
Layer: 1 of 1

Asbestos Present:

NOT ANALYZED

Lab ID #: 34923 - 268
Cust. #: 90-EWG-C
Material: Exterior Window Glaze
Location: W Side S
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

Lab ID #: 34923 - 269
Cust. #: 91-EWC-A
Material: Exterior Window Caulk
Location: W Side N
Appearance: white, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



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Test Method, Polarized Light Microscopy (PLM)



Project: Willow Run Airport- Hanger #2
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ARI Report # 11-34923
Date Collected: 3/14-3/16/11
Date Received: 03/18/11
Date Analyzed: 03/23/11
Date Reported: 03/23/11

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 34923 - 270 Cust. #: 91-EWC-B Material: Exterior Window Caulk Location: W Side N Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 2%	Other - 98%
Lab ID #: 34923 - 271 Cust. #: 91-EWC-C Material: Exterior Window Caulk Location: W Side N Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 34923 - 272 Cust. #: 10-FT-D Material: Location: Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)

Project: Willow Run Airport- Hanger #2
Project # 39.41498.1101



*Training was conducted in accordance with TOSCA II;
the requirements of 40 CFR 763, (AHERA) Appendix C;
and Michigan Act 440, PA 1988*

CERTIFICATE NO. BIMPR12051102

TILLOTSON ENVIRONMENTAL OCCUPATIONAL CONSULTING

presents this certificate to:

MIKE INGELS /SS# 7567

Dated:

MAY 11, 2012


for successful completion of the course and examination for:

8-HOUR ASBESTOS BUILDING INSPECTOR MANAGEMENT PLANNER REFRESHER TRAINING

EXPIRATION DATE: MAY 11, 2013


MICHAEL R. TILLOTSON, CIH, CHMM

State of Michigan
Department of Licensing and Regulatory Affairs
Michigan Occupational Safety & Health Administration - Asbestos Program

 **Asbestos Inspector**

Michael J. Ingels
7105 Warren Road
Ann Arbor, MI 48105

Accreditation Number **A8942** **Expiration Date** **08/25/2013**

This individual has satisfactorily met or exceeded the requirements of Michigan Public Act 440 of 1988, as amended, to be accredited as an Asbestos Inspector.

DOB: 06/28/1957

Accreditation card is not valid if altered. 100879

101 W. Cass Suite C
St. Johns, MI 48879
989-227-2000

MICHAEL J. INGELS

PRESIDENT - ENVIRONMENTAL CONSULTING GROUP, INC.

Mike is responsible for the management of all environmental activities associated with Environmental Consulting Group, Inc. (ECG). Mike has over twenty-five years of environmental experience specializes in indoor air quality related activities includes all phases of asbestos management. Mike's extensive asbestos management experience includes building surveys, project designs, management planning, air monitoring /clearance testing, construction management, awareness training and litigation support. Mike has also conducted and managed indoor air quality studies, mold assessments, lead-based paint investigations, environmental site assessments, baseline environmental site assessments, underground storage tank investigations, soil sampling and building demolition and management phase services.

Mike has extensive management experience at Detroit Metropolitan Wayne County Airport. This ongoing project has included management of phased removal of asbestos abatement projects totaling over \$5,000,000.00.

RELATED PROJECTS

- 3M
- Delta
- Federal Express
- General Services Administration
- J.P. Morgan Chase
- Massachusetts Mutual Life Insurance Company
- Oakland Community College
- Oscar Mayer
- Wayne County
- Wayne County Airport Authority
- as well as numerous projects for local municipalities, colleges, schools and businesses■



Areas of Expertise

- Asbestos management for Industrial, commercial & governmental agencies


Education

- BS Natural Resources, University of Michigan - Ann Arbor, MI, 1979

Continued Education and Professional Training

- EPA/AHERA Certified Asbestos Building Inspector – Michigan License #A8942
- EPA/AHERA Certified Asbestos Project Designer – Michigan License #A8942
- EPA/AHERA Certified Asbestos Management Planner – Michigan License #A8942
- NIOSH 582 Fiber Counting Certification (Equivalent)
- OSHA 29 CFR 1910.120 Hazardous Waste Operations Emergency Response
- Underground Storage Tank Investigation - Midwest Center of Occupational Health & Safety
- HUD/EPA Guidelines – Certified Lead Inspector- Midwest Center of Occupational Health & Safety

**MEMORANDUM**

DATE: MARCH 11, 2014
TO: MR. ROBERT SCHLOESSER, CRA, INC.
FROM: MICHAEL J. INGELS, ECG, INC. 
RE: ADDENDUM TO ASBESTOS SURVEY REPORT FOR HANGAR 2
WILLOW RUN AIRPORT

Environmental Consulting Group, Inc. (ECG) performed additional asbestos sampling and assessment of components associated with electrical panels at Hangar 2, at the Willow Run Airport on March 10, 2014. This assessment was conducted after an investigation at Hangar 1, under a separate contract, was performed and documented that certain components within the electrical panels were asbestos-containing.

ECG has no existing sampling data on components within electrical panels at the Site. Based upon sampling performed at Hangar 1 and on-site observations, ECG collected eleven (11) samples of five (5) new distinct suspect materials. Bulk samples were submitted to Apex Research in Whitmore Lake for analysis via Polarized Light Microscopy (PLM). PLM is the EPA recognized method for determining whether a building material is considered asbestos-containing. The EPA considers a building material to be asbestos-containing if it contains greater than 1% asbestos by weight. Analytical results determined that three (3) of the new building materials are asbestos-containing.

7105 Warren Road
Ann Arbor, MI 48105
Voice: 734-222-7050
Fax: 734-222-7051

The charts listed on the following pages summarize materials that were sampled during this investigation and list them according to the results of the laboratory analysis. The sample identification chart lists each building material (homogeneous area), its sample number(s), description and asbestos content. The ACM assessment chart lists identified ACM's, noting their location, quantity, friability/condition and comments pertaining to removal to facilitate demolition of the structure. All materials identified as asbestos-containing contain chrysotile asbestos unless specified otherwise.

SAMPLE IDENTIFICATION CHART

HOMO AREA	SAMPLE ID	DESCRIPTION	CONTENT
ASBESTOS-CONTAINNG MATERIALS			
92	445-18, 27	Electrical Panel Arc Chute	30% Chrysotile
93	445-19, 28	Electrical Panel Fuse Housing	30% Chrysotile
94	445-20, 22, 25	Electrical wire wrap banding string	ND
95	445—21, 23, 26	Electrical wire wrap (black)	ND
96	445-24	Circuit Isolation Board	40% Chrysotile

ACM ASSESSMENT CHART

BAY #	DESCRIPTION	LOCATION	QUANTITY	FRIABLITLY CONDITION	COMMENTS
1	Electrical Panel Arc Chute – inside each circuit box within the panel	Along South wall Off catwalk against N. wall	3 electrical panels/~10 sf/panel 1 electrical panels/~10 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove *
1	Electrical Panel Fuse Housing – inside each circuit box within the panel	Along South wall Off catwalk against N. wall	3 electrical panels/~10 sf/panel 1 electrical panels/~10 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove *
1	Circuit Isolation Board – at bottom of panel below circuit boxes	Along South wall Off catwalk against N. wall	3 electrical panels/~.5 sf/panel 1 electrical panels/~.5 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove
2	Electrical Panel Arc Chute – inside each circuit box within the panel	Along South wall Off catwalk against N. wall (1) and on catwalk, south side (3)	3 electrical panels/~10 sf/panel 4 electrical panels/~10 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove *
2	Electrical Panel Fuse Housing – inside each circuit box within the panel	Along South wall Off catwalk against N. wall (1) and on catwalk, south side (3)	3 electrical panels/~10 sf/panel 4 electrical panels/~10 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove *
2	Circuit Isolation Board – at bottom of panel below circuit boxes	Along South wall Off catwalk against N. wall (1) and on catwalk, south side (3)	3 electrical panels/~.5 sf/panel 4 electrical panels/~.5 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove
3	Electrical Panel Arc Chute – inside each circuit box within the panel	Along South wall Off catwalk against N. wall	3 electrical panels/~10 sf/panel 1 electrical panels/~10 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove *
3	Electrical Panel Fuse Housing – inside each circuit box within the panel	Along South wall Off catwalk against N. wall	3 electrical panels/~10 sf/panel 1 electrical panels/~10 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove *
3	Circuit Isolation Board – at bottom of panel below circuit boxes	Along South wall Off catwalk against N. wall	3 electrical panels/~.5 sf/panel 1 electrical panels/~.5 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove
4	Electrical Panel Arc Chute – inside each circuit box within the panel	Along South wall Off catwalk against N. wall	3 electrical panels/~10 sf/panel 1 electrical panels/~10 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove *

BAY #	DESCRIPTION	LOCATION	QUANTITY	FRIABILITY CONDITION	COMMENTS
4	Electrical Panel Fuse Housing – inside each circuit box within the panel	Along South wall Off catwalk against N. wall	3 electrical panels/~10 sf/panel 1 electrical panels/~10 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove *
4	Circuit Isolation Board – at bottom of panel below circuit boxes	Along South wall Off catwalk against N. wall	3 electrical panels/~.5 sf/panel 1 electrical panels/~.5 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove
5	Electrical Panel Arc Chute – inside each circuit box within the panel	Along South wall Off catwalk against N. wall	3 electrical panels/~10 sf/panel 1 electrical panels/~10 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove *
5	Electrical Panel Fuse Housing – inside each circuit box within the panel	Along South wall Off catwalk against N. wall	3 electrical panels/~10 sf/panel 1 electrical panels/~10 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove *
5	Circuit Isolation Board – at bottom of panel below circuit boxes	Along South wall Off catwalk against N. wall	3 electrical panels/~.5 sf/panel 1 electrical panels/~.5 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove
6	Electrical Panel Arc Chute – inside each circuit box within the panel	Along South wall Off catwalk against N. wall	3 electrical panels/~10 sf/panel 1 electrical panels/~10 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove *
6	Electrical Panel Fuse Housing – inside each circuit box within the panel	Along South wall Off catwalk against N. wall	3 electrical panels/~10 sf/panel 1 electrical panels/~10 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove *
6	Circuit Isolation Board – at bottom of panel below circuit boxes	Along South wall Off catwalk against N. wall	3 electrical panels/~.5 sf/panel 1 electrical panels/~.5 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove
7	Electrical Panel Arc Chute – inside each circuit box within the panel	Along South wall Off catwalk against N. wall (1) and on catwalk, south side (3)	3 electrical panels/~10 sf/panel 4 electrical panels/~10 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove *
7	Electrical Panel Fuse Housing – inside each circuit box within the panel	Along South wall Off catwalk against N. wall (1) and on catwalk, south side (3)	3 electrical panels/~10 sf/panel 4 electrical panels/~10 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove *
7	Circuit Isolation Board – at bottom of panel below circuit boxes	Along South wall Off catwalk against N. wall (1) and on catwalk, south side (3)	3 electrical panels/~.5 sf/panel 4 electrical panels/~.5 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove

WAYNE COUNTY AIRPORT AUTHORITY**MARCH 11, 2014****ASBESTOS INSPECTION REPORT ADDENDUM MEMORANDUM – YIP – HANGAR 2, YSPILANTI, MICHIGAN****ECG PROJECT #A1372-44****PAGE 4**

BAY #	DESCRIPTION	LOCATION	QUANTITY	FRIABLITLY CONDITION	COMMENTS
8	Electrical Panel Arc Chute – inside each circuit box within the panel	Along South wall Off catwalk against N. wall	3 electrical panels/~10 sf/panel 1 electrical panels/~10 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove *
8	Electrical Panel Fuse Housing – inside each circuit box within the panel	Along South wall Off catwalk against N. wall	3 electrical panels/~10 sf/panel 1 electrical panels/~10 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition – Remove *
8	Circuit Isolation Board – at bottom of panel below circuit boxes	Along South wall Off catwalk against N. wall	3 electrical panels/~.5 sf/panel 1 electrical panels/~.5 sf/panel	Nonfriable Good	Cat. II NF – material could become friable during demolition - Remove

- * Arc chute and fuse housing materials are located within circuit boxes within each electrical panel. Once panels are de-energized and wires cut, circuit box can be pulled out intact and disposed of as ACM.

END OF MEMORANDUM

Apex #

50826**APEX Research Inc.**

11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449-9990, Fax (734) 449-9991.

Web Site: <http://apexresearch-inc.com> Email: Bob.Lecarie@apexresearchlab.com

Customer Name: Environmental Consulting Group
 Address: 7105 Warren Road
 City, St., Zip: Ann Arbor, MI 48105
 Phone: 734-222-7050 Fax: 734-222-7051

Date of Survey: 3/10/14
 Project: YIP Hanger 2 - Demo
 Project # A372-445
 Contact Person: Mike Ingels
 Email: mjngels57@hotmail.com

Lab Use Only

Log-In: _____

Report: _____

Fax: _____

Verbal: _____

Email: _____

Turn Around Times: (Circle One)

Rush 24 hour
 48 hour 72 hour
 Other: _____ TTP yes / no
 (Test Till Positive)

***Terms and conditions on the other side.

Asbestos: Bulk ☒ Wipe _____ Point Count _____ PCM _____
 Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____
 Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____
 TEM: Bulk/NOP _____ AHERA _____ EPA Level II _____ Other _____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
1	445-18	Electrical Panel Arc Chute -		92	- Bay 3 - S. Wall Chry-30
2	" 19	" " Fuse Housing		93	" Chry-30
3	" 20	" Wire Bending		94	" NAD
4	" 21	" " Wrap		95	" NAD
5	" 22	" " Bending		94	Bay 5 NAD
6	" 23	" " Wrap		95	Bay 5 NAD, NAD
7	" 24	" Isolation Panel		96	Bay 5 Chry-40
8	" 25	" Wire Bending		94	Bay 6 NAD
9	" 26	" Wire Wrap		95	Bay 6 NAD, NAD
10	" 27	" Panel Arc Chute		92	Bay 3 - Cath. suit - N. Wall Chry-30
11	" 28	" " Fuse Housing		93	- Bay 5 - S. Wall Chry-30

Relinquished By: M. Lecarie
 Date: 3/10/14
 Revision Date: June 2011

Received By: [Signature]
 Date: 3/10/14

Relinquished By: _____
 Date: MAR 10 2014

Relinquished By: _____
 Date: _____

APEX RESEARCH

Appendix C

Site Photographs



Photo 1 – Hangar 2 northeast side



Photo 2 – Hangar 2 northeast side AC units above mezzanine

SITE PHOTOGRAPHS



Photo 3 – Hangar 2 north half office area



Photo 4 – Hangar 2 HVAC trenches and hangar doors

SITE PHOTOGRAPHS



Photo 5 – Hangar 2 north half and collection sump



Photo 6 – Hangar 2 east side stairs to second floor offices

SITE PHOTOGRAPHS



Photo 7 – Hangar 2 east side electric shop



Photo 8 – Hangar 2 electric shop interior

SITE PHOTOGRAPHS



Photo 9 – Hangar 2 storage shed



Photo 10 – Hangar 2 typical boiler fan room

SITE PHOTOGRAPHS



Photo 11 – Hangar 2 boiler fan oil leak



Photo 12 – Hangar 2 typical door reservoir

SITE PHOTOGRAPHS

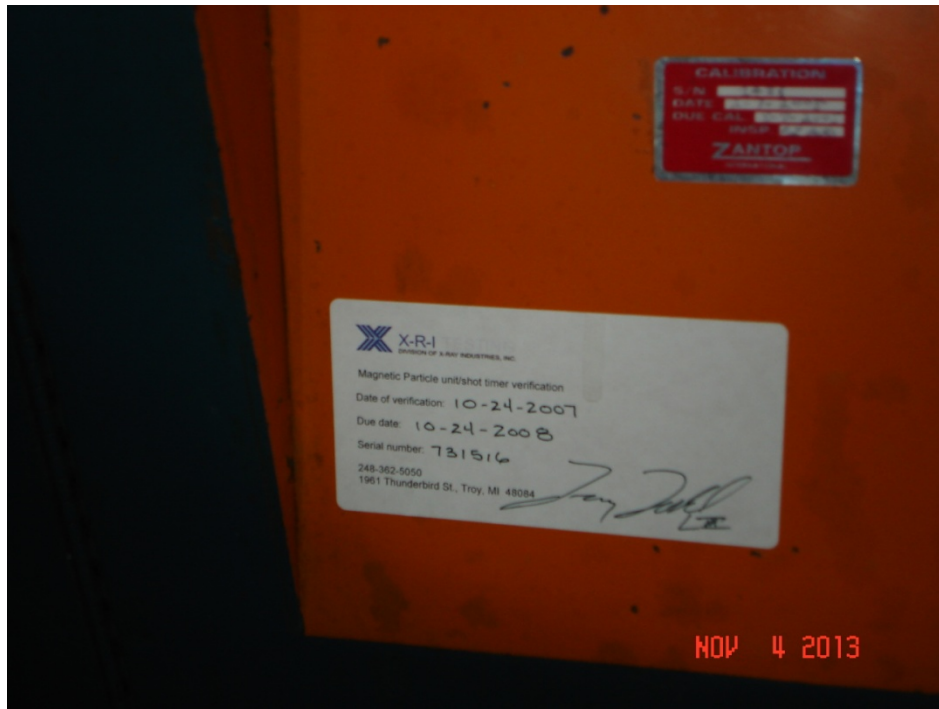


Photo 13 – Hangar 2 X-ray machine tag in radioactive area



Photo 14 – Hangar 2 radioactive area chemical vat container

SITE PHOTOGRAPHS

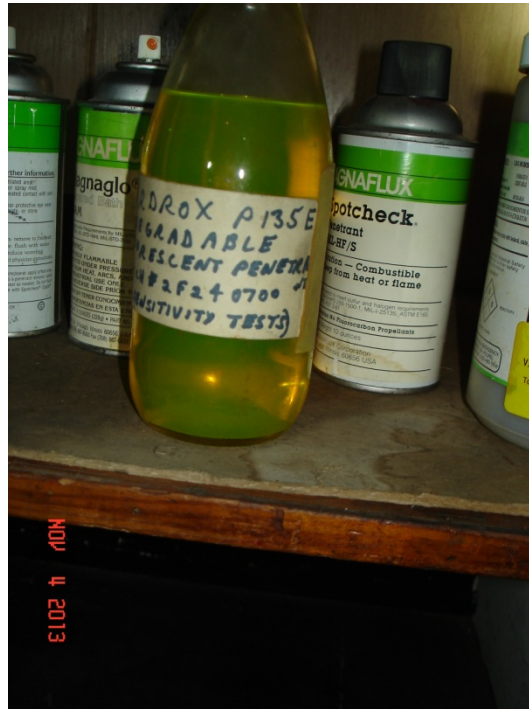


Photo 15 – Hangar 2 X-ray lab mixed Ardrox



Photo 16 – Hangar 2 X-ray lab Magnaflux Magnaglo

SITE PHOTOGRAPHS



Photo 17 – Hangar 2 X-ray lab Magnaflux Mangalo carrier II

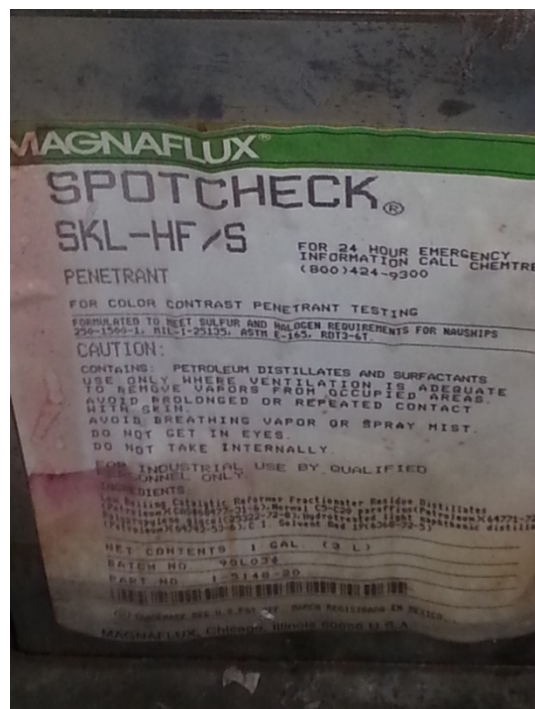


Photo 18 – Hangar 2 X-ray lab Spotcheck

SITE PHOTOGRAPHS



Photo 19 – Hangar 2 X-ray lab Brite more



Photo 20 – Hangar 2 X-ray lab Lubriplate

SITE PHOTOGRAPHS



Photo 21 – Hangar 2 central east wall active substation



Photo 22 – Hangar 2 air compressors

SITE PHOTOGRAPHS



Photo 23 – Hangar 2 air compressors



Photo 24 – Hangar 2 east side wall expansion joint

SITE PHOTOGRAPHS



Photo 25 – Hangar 2 south side transite siding



Photo 26 – Hangar 2 south side

SITE PHOTOGRAPHS