Hazardous Materials Assessment

City of Homer, Public Works Department,
Homer Education and Recreation Complex (HERC) 1 Screening,
Homer Education and Recreation Complex 1 (HERC1),
450 Sterling Highway,
Homer, Alaska 99603

Assessment Date: May 05-06, 2023
Report Date: July 25, 2023
HTRW, LLC Project No.: 2022-12

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1. Introduction and Executive Summary

Under contract to City of Homer, HTRW, LLC performed a limited hazardous building materials assessment of the HERC1 Homer Education and Recreation Complex 1 located at 450 Sterling Highway in Homer, Alaska 99603. The objective of the assessment was to identify ***common hazardous building materials*** that may be affected by a future demolition project at the site. Mr. Christopher T. Ottosen of HTRW, LLC performed the assessment on May 05-06, 2023 while the site was partially occupied.

The following ***common hazardous building materials*** were identified in the building: asbestos-containing materials, lead-containing materials, mercury-containing materials, PCB-containing light ballasts, ozone depleting substances (ODS), heat transfer fluids, and materials with radioactive components.

These ***common hazardous building materials*** are regulated to varying degrees, and in general, require the use of qualified firms using workers who are trained in the safe handling, removal, and disposal of these various materials. The regulations governing the removal of the ***common hazardous building materials*** addressed by this report are intended to ensure the health and safety of persons and the environment. Failure to adhere to the requirements of the governing regulations may result in an uncontrolled release of the materials, potentially exposing persons or the environment to the hazardous effects of the materials. Failure to comply with the regulations may invoke regulatory enforcement action such as fines, citations, and penalties, or may lead to litigation from those parties potentially exposed to the hazards.

2. Generalized Building/Site Descriptions

The HERC1 building was originally constructed in 1956, and has had relatively few documented renovations since that time. There have been no apparent additions to the original structure.

The building has a “split level” design with the north side of the building being at a higher elevation than the south. All portions of the building have a concrete slab-on-grade foundation with reinforced cast-in-place concrete at perimeter walls, the below-grade pipe tunnels on the north side of the building, the lower level east-west corridor and adjacent mechanical room and storage room areas. The remaining areas were typically of wood framed construction.

Floors throughout the building were typically finished with carpet. Ceramic mosaic floor tiles were present in the locker rooms as well as in the original upper level restrooms. The MPR had a wood plank floor, and the kitchen area and boiler room typically had concrete floors. One room on the upper level had exposed 9” x 9” vinyl asbestos tile. The stairwell had rubber flooring on treads and landings, and remaining areas typically had sheet vinyl. Older floor finishes were observed under newer floor finishes in several locations.

Walls throughout the building typically had plywood paneling, “Marlite”, gypsum board, or combinations of these materials layered onto each other. The locker rooms showers had ceramic wall tiles, and the boiler room and adjacent storage rooms had concrete walls. The inside face of the exterior concrete walls in these rooms also had corkboard.

Ceilings throughout the building varied. 12” x 12” glued-on ceiling tiles were typically found in corridors, vestibules, and other “common areas”. Restrooms, locker rooms, the kitchen area, janitor closets, and fan rooms typically had gypsum board ceilings. The locker room showers had ceramic wall tile on the ceilings. Remaining areas typically had suspended 2’ x 4’ lay-in ceiling tiles.

The exterior of the building typically had a corrugated metal siding with window walls at upper level rooms. The roof was not observed but is believed to be of built-up construction based on satellite imagery and a 2007 report by ECI/Hyer, Inc. The roof had a wood tongue and groove deck supported by steel joists in the MPR and by various wood beams and columns for the remainder of the building.

The building had two gas-fired boilers on the lower level with various air handing units, reheat coils, and fintube elements supplying heat and ventilation throughout the building.

3. Project Summary

The future of the building is unknown, and there is no specific project for which this report is intended to be used for. The intent of the limited screening was to identify some additional hazards which had not been adequately addressed by prior hazmat assessments to provide a better overall picture of the existing materials and conditions to aid in decision making about the building's future. This report assumes that additional inspections for ***common hazardous building materials*** will be required prior to any future renovation or demolition activities at the building and that the information contained within this and other reports will be used to supplement those future activities.

4. Inspector

Mr. Christopher T. Ottosen of HTRW, LLC performed the assessment and holds the following certifications: EPA-Certified AHERA Building Inspector, Management Planner, Project Designer, Asbestos Abatement Worker and Contractor/Supervisor, and EPA-Certified Risk Assessor. Mr. Ottosen is an Alaska Asbestos Abatement Certificate of Fitness Holder and has additional training from McCoy and Associates on the RCRA Hazardous Waste Regulations; Confined Space Entry Training; OSHA 10-Hour Training; and Radiation Safety Training. HTRW, LLC is an EPA-Certified Lead-Safe Firm. Documentation of these various certifications and training experience is available on request to HTRW, LLC.

5. Definitions

Auxiliary work: is intended to include all work that is not defined as a ***major element*** by this report. An example of ***auxiliary work*** includes work such as routing of new mechanical or electrical systems to areas outside of the ***main work area***(s).

Common hazardous building materials: for the purposes of this report is intended to include: asbestos-containing materials, lead-containing materials, mercury-containing materials, PCB-containing materials, ozone depleting substances (ODS), heat transfer fluids, and materials with radioactive components.

Main work area: is intended to include area(s) which have defined boundaries where the majority of work is located.

Major element: is intended to include the elements of work which are located within the ***main work area***(s), whose scope is not subject to variations in means or methods, and can generally be identified solely by graphical representation or notation on the contract drawings.

6. Scope of Assessment

The hazardous materials assessment performed by HTRW, LLC did not include inspection of the entire site or identification of all ***common hazardous building materials*** which may be present at the site, including certain ***common hazardous building materials*** not scheduled for disturbance which are located within the assessment boundaries. The assessment was focused on the identification of ***common hazardous building materials*** located within the ***main work area***(s) which may be disturbed by future projects at the site and as agreed upon with our client. The assessment did include identification of ***common hazardous building materials*** located both inside and outside of the main work area boundaries that could potentially be disturbed by future work. The information contained in this report is based mainly on the as-built information described below, observations made by the inspector at the site, the results of the limited sampling conducted, experience in other similar buildings, and from experiences with past projects of similar scope.

Prior to and after the assessment, HTRW, LLC reviewed available documentation for the site which aided in the development of a sampling and inspection strategy, as well as in the preparation of this report. HTRW, LLC reviewed the following information which was made available electronically:

- As-Builts:
  - 1956 Homer High School (original construction).
  - 1960 Plumbing Alterations, Homer School.
  - 1964 Addition to Mechanical System, Homer Senior High School.
  - 1985 Modifications to Homer Lower School and Middle School.
  - 1997 Kachemak Bay Campus Remodel.
- Hazardous Materials Information:
  - A Hazardous Building Materials Survey report dated March 26, 2020 prepared by Environmental Management, Inc.
- Other Information Reviewed:
  - An April 03, 2007 Homer Secondary School Condition Overview by ECI/Hyer, Inc.
  - A December 10, 2012 e-mail report titled "HERC Building Analysis" by Klauder & Company Architects, Inc.
  - An April 05, 2016 HERC Building Upgrade Analysis Report by Stantec Architecture, Inc.
  - A November 27, 2018 Final Recommendation Report prepared by the HERC Task Force.
  - Publicly available property records from the Kenai Peninsula Borough.

7. Asbestos

HTRW, LLC collected bulk samples of building materials at the site which were analyzed by Polarized Light Microscopy (PLM) using protocols defined in 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples; the United States Environmental Protection Agency (USEPA) Method 600, R93-116; and NYSDOH ELAP 198.1 as needed. PLM analysis is the "standard" analysis that is required by most agencies governing asbestos-related work, however, it is limited in its ability to identify smaller asbestos fibers due to the low magnification used by the analytical method, as well as for asbestos fibers which may be obscured by interfering matrices. A secondary analysis that may be performed at the discretion of the inspector to help aid in the analysis of these types of samples is called Transmission Electron Microscopy for Non-friable, Organically Bound (TEM-NOB) materials which uses protocols defined in ELAP Section 198.4. Several other analytical methods exist to determine the presence of asbestos in bulk samples of building materials, and those techniques may be used at the discretion of the building inspector.

The PLM and TEM-NOB samples were analyzed by International Asbestos Testing Laboratories (iATL) located at 9000 Commerce Parkway Suite B, Mt. Laurel, New Jersey 08054. This laboratory was accredited at the time of analysis by the National Institute of Standards and Technology (NIST) through the National Voluntary Laboratory Accreditation Program.

Refer to Appendix A and Appendix D for the following asbestos-related documentation:

Appendix A.1 - Asbestos-Containing Materials Matrix

Appendix A.2 - Table of Asbestos Samples

Appendix A.3 - Final Laboratory Certificate of Analysis & Chain of Custody

Appendix A.4 - Laboratory Accreditations

Appendix A.5 - Asbestos Inspector Certifications

Appendix D - Drawings of Asbestos and PCB Test Locations

A. Survey Results

Refer to Appendix A.1 for a matrix showing the materials which were confirmed or assumed to contain asbestos by this or previous assessments, Appendix A.2 for a listing of samples collected for this project, and Appendix D for drawings of sample locations.

B. Discussion on Findings

Category I Nonfriable Asbestos-Containing Materials

The EPA defines Category I nonfriable asbestos-containing material as:

Asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1 percent asbestos as determined using the method specified in appendix E, subpart E, 40 CFR part 763, section 1, Polarized Light Microscopy.

A summary of the types of Category I nonfriable asbestos-containing material identified in the buildings are shown in Appendix A.1 - Asbestos-Containing Materials Matrix. The Category I nonfriable asbestos-containing materials were typically in good condition with isolated areas of "normal wear-and-tear" type damage unless noted otherwise in the summary.

Category II Nonfriable Asbestos-Containing Materials

The EPA defines Category II nonfriable asbestos-containing material as:

Any material, excluding Category I nonfriable ACM, containing more than 1 percent asbestos as determined using the methods specified in appendix E, subpart E, 40 CFR part 763, section 1, Polarized Light Microscopy that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

A summary of the types of Category II nonfriable asbestos-containing material identified in the buildings are shown in Appendix A.1 - Asbestos-Containing Materials Matrix. The Category II nonfriable asbestos-containing materials were typically in good condition with isolated areas of "normal wear-and-tear" type damage unless noted otherwise in the summary.

Regulated Asbestos-Containing Materials

The EPA defines regulated asbestos-containing materials (RACM) as:

Friable asbestos material; Category I nonfriable ACM that has become friable; Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading; or Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this subpart.

A summary of the types of RACM identified in the buildings are shown in Appendix A.1 - Asbestos-Containing Materials Matrix. The RACM materials were typically in good condition with isolated areas of "normal wear-and-tear" type damage unless noted otherwise in the summary.

Materials Containing Less Than or Equal to One Percent Asbestos

Materials which contain less than or equal to 1% asbestos are not classified as an asbestos-containing material by the EPA or OSHA, and these materials are not regulated for disposal by the EPA. However, OSHA regulations under 29 CFR 1926.1101 still apply to workers involved in the disturbance of materials containing ≤1% asbestos. A summary of the types of materials which contain less than or equal to 1% asbestos identified in the buildings are shown in Appendix A.1 - Asbestos-Containing Materials Matrix. The materials which contain less than or equal to 1% asbestos were typically in good condition with isolated areas of "normal wear-and-tear" type damage unless noted otherwise in the summary.

Other Asbestos-Containing Materials

Some components, typically mechanical equipment, may contain several different types of materials that fall into one or more of the three categories. A summary of the types of components which may contain different categories of asbestos-containing materials in the buildings are shown in Appendix A.1 - Asbestos-Containing Materials Matrix. The components which may contain different categories of asbestos-containing materials were typically in good condition with isolated areas of "normal wear-and-tear" type damage unless noted otherwise in the summary.

As discussed elsewhere in this report, not all areas of the site were inspected, and not all materials were sampled or identified. This report assumes that additional asbestos-containing materials may be present. Any work which will disturb existing building materials that have not been shown to not contain asbestos must be performed by trained asbestos workers unless representative sampling performed by qualified persons shows otherwise.

C. Regulatory Discussion

Asbestos-related work is a highly regulated industry, and the assessment performed by HTRW, LLC was partially intended to identify asbestos-containing materials so that the health and safety requirements of various governing agencies as they relate to asbestos work could be satisfied. A partial listing of applicable public laws, statutes, and regulations include:

- Occupational Safety and Health Administration:
  - 29 CFR 1910.134 – Respiratory Protection
  - 29 CFR 1910.1001 – Asbestos in General Industry
  - 29 CFR 1910.1200 – Hazard Communication
  - 29 CFR 1926.33 – Access to Employee Exposure and Medical Records
  - 29 CFR 1926.55 – Gases, Vapors, Fumes, Dusts, and Mists
  - 29 CFR 1926.59 – Hazard Communication
  - 29 CFR 1926.103 – Respiratory Protection
  - 29 CFR 1926.1101 – Asbestos in Construction
- United States Environmental Protection Agency:
  - 40 CFR Part 61, Subpart A – General Provisions
  - 40 CFR Part 61, Subpart M – National Emission Standard for Asbestos
  - 40 CFR Part 763 – Asbestos
- United States Department of Transportation:
  - 49 CFR Part 107 – Hazardous Materials Program Procedures
  - 49 CFR Part 171 – General Information, Regulations, and Definitions
  - 49 CFR Part 172 – Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, Training Requirements, and Security Plans
  - 49 CFR Part 173 – Shippers- General Requirements for Shipments and Packagings
- Alaska Statutes:
  - AS Section 18.31 – Asbestos
  - AS Section 18.60 – Safety
  - AS Section 18.62 – Certificates of Fitness
  - AS Section 23.05 – Department of Labor and Workforce Development
- Alaska Administrative Code:
  - 8 AAC 61 – Occupational Safety and Health Division
  - 8 AAC 61.600-790 – Asbestos Abatement Certification
  - 8 AAC 61.1010-1190 – Occupational Safety and Health Standards
  - 18 AAC 60 – Solid Waste Management

- 18 AAC 60.450 – Asbestos Disposal Regulations
- 18 AAC 62 – Hazardous Waste
- 18 AAC 70 – Water Quality Standards
- 18 AAC 72 – Wastewater Treatment and Disposal
- 18 AAC 75 – Oil and Other Hazardous Substances Pollution Control

The removal and disposal of materials containing asbestos is regulated in different ways by different regulatory agencies. The main difference which drives which regulations apply is whether the affected areas are classified as a "school building" as defined by 40 CFR 763.83. 40 CFR 763 Subpart E, Asbestos-Containing Materials in Schools, is commonly referred to as "AHERA" and contains several requirements specific to "school buildings" which may not be required in other types of buildings. Specific requirements for facilities meeting the definition of a "school building" include the requirement to designate persons to ensure the requirements of the regulation are properly implemented, requires initial and periodic inspections, the development and maintenance of an asbestos management plan, specifies training requirements, annual notification requirements, recordkeeping and labeling requirements, clearance air sampling, among other requirements unique to "school buildings". Although these requirements are specific to "school buildings", many of the same requirements are commonly required by contracts.

Three of the other main asbestos regulations which govern asbestos-related work in most facilities, including schools, include 29 CFR 1926.1101 for worker protection, 40 CFR 61 Subpart M for inspection and disposal requirements related to renovation and demolition activities, and Title 49 CFR, Subtitle B, Chapter I, Subchapter C (DOT, Hazardous Materials Regulations 49 CFR Parts 171-185) for the transportation of materials containing asbestos.

D. Conclusions and Recommendations

The disturbance and disposal of asbestos-containing materials are subject to regulation by the agencies described above among others. All asbestos-related work must be performed in accordance with all applicable laws whether they are referenced within this report or not.

8. Lead

HTRW, LLC did not perform any testing for lead-containing materials during the site visit. The 2020 report by EMI did contain limited lead testing information for the building which had been performed using an unknown type of X-Ray Fluorescence (XRF) analyzer. The report indicated that lead-containing paints were present at the building. The 2020 assessment did not appear to include testing or identification of all paints and materials in the building, and additional sampling may be required to determine the applicability of 29 CFR 1910.1025 and/or 29 CFR 1926.62.

Additionally, this building was constructed prior to 1978 and some or all of the building may be classified as a child occupied facility in accordance with 40 CFR 745, and therefore, may be regulated by 40 CFR 745.

Refer to Appendix B and Appendix D for the following lead-related documentation:

Appendix B.1 - Lead-Containing Materials Matrix

Appendix B.2 - Table of XRF Readings (None)

Appendix B.3 - Lead Inspector Certifications

Appendix D - Drawings of Asbestos and PCB Test Locations

A. Survey Results

Refer to Appendix B.1 for a matrix showing the materials which were confirmed or assumed to contain lead by this or previous assessments, Appendix B.2 for the results of the XRF testing, and Appendix D for drawings of sample locations.

B. Discussion on Findings

The concentrations of lead found in painted surfaces were not described by the 2020 EMI report. That report provided only "positive" or "negative" results for each reading, which appears to be based on criteria for lead-based paint. Paints and other materials containing lead at concentrations lower than lead-based paint criteria are common, and due to the age of the building, all painted, glazed, laminated, or otherwise coated surfaces should be considered lead-containing unless further testing shows otherwise. Similarly, metallic lead is assumed to be present on the roof at VTR's and inside of roof drain bowls at the clamping rings. XRF technology cannot currently classify paints and other materials as "lead-free" for the purposes of determining if 29 CFR 1926.62 applies, and therefore, additional sampling of materials may be required.

C. Regulatory Discussion

Lead-related work is a highly regulated industry, and the assessment performed by HTRW, LLC was partially intended to identify lead-containing materials so that the health and safety requirements of various governing agencies as they relate to lead work could be satisfied. A partial listing of applicable public laws, statutes, and regulations include:

- Occupational Safety and Health Administration:
    - 29 CFR 1910.120 – Hazardous Waste Operations and Emergency Response
    - 29 CFR 1910.134 – Respiratory Protection
    - 29 CFR 1910.1000 – Air Contaminants
    - 29 CFR 1910.1025 – Lead in General Industry
    - 29 CFR 1910.1200 – Hazard Communication
    - 29 CFR 1926.62 – Lead in Construction
    - 29 CFR 1926.65 – Hazardous Waste Operations and Emergency Response
- United States Environmental Protection Agency:
    - 40 CFR 260 – Hazardous Waste Management System: General
    - 40 CFR 261 – Identification and Listing of Hazardous Waste
    - 40 CFR 262 – Standards Applicable to Generators of Hazardous Waste
    - 40 CFR 263 – Standards Applicable to Transporters of Hazardous Waste
    - 40 CFR 264 – Standards for Owners and Operators of Hazardous Waste Treatment, Storage, And Disposal Facilities
    - 40 CFR 265 – Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, And Disposal Facilities
    - 40 CFR 266 – Standards for The Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities
    - 40 CFR 267 – Standards for Owners and Operators of Hazardous Waste Facilities Operating Under a Standardized Permit
    - 40 CFR 268 – Land Disposal Restrictions
    - 40 CFR 270 – EPA Administered Permit Programs: The Hazardous Waste Permit Program
    - 40 CFR 271 – Requirements for Authorization of State Hazardous Waste Programs
    - 40 CFR 272 – Approved State Hazardous Waste Management Programs
    - 40 CFR 273 – Standards for Universal Waste Management
    - 40 CFR 745 Lead-Based Paint Poisoning Prevention in Certain Residential Structures
- United States Department of Transportation:
    - 49 CFR Part 107 – Hazardous Materials Program Procedures
    - 49 CFR Part 171 – General Information, Regulations, and Definitions
    - 49 CFR Part 172 –Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, Training Requirements, and Security Plans
    - 49 CFR Part 173 – Shippers- General Requirements for Shipments and Packagings

- Alaska Statutes:
    - AS Section 18.60 – Safety
    - AS Section 18.62 – Certificates of Fitness
    - AS Section 18.63 – Hazardous Painting Certification
    - AS Section 23.05 – Department of Labor and Workforce Development
- Alaska Administrative Code:
    - 8 AAC 61 – Occupational Safety and Health Division
    - 8 AAC 61.800-890 – Painting Certification
    - 8 AAC 61.1010-1190 – Occupational Safety and Health Standards
    - 18 AAC 60 – Solid Waste Management
    - 18 AAC 62 – Hazardous Waste
    - 18 AAC 70 – Water Quality Standards
    - 18 AAC 72 – Wastewater Treatment and Disposal
    - 18 AAC 75 – Oil and Other Hazardous Substances Pollution Control

The disturbance of lead-containing materials is subject to regulation by 29 CFR 1910.1025 and 29 CFR 1926.62. Which regulation governs depends on whether the planned work is classified as construction work or as other work in accordance with OSHA regulations. OSHA's lead regulations do not limit the definition of lead-containing materials to only "paints" and generally include any material containing lead. Similarly, OSHA's lead regulations do not specify a threshold to determine whether a material is considered to be lead-containing or not. OSHA has instead released several formal letters of interpretation which indicate that the scope of the regulation is intended to protect persons from occupational exposure to lead, and therefore, the regulations apply to any material containing lead at any concentration. OSHA's lead regulations contain "trigger tasks" which establish presumptive exposure limits for progressively higher-risk tasks, and those "trigger tasks" form the basis of the employer's initial and ongoing obligations and responsibilities to ensure employees are protected from lead exposure. Each project is unique, and the extent to which the work is regulated must be determined on a case-by-case basis. It is the Owner's and/or contractor's responsibility to review the "trigger tasks" and other requirements of 29 CFR 1910.1025 or 29 CFR 1926.62 to determine which portions apply, if any, to each unique work task required by the project.

Disturbance of paints classified as "lead-based" is subject to regulation by 40 CFR 745, and which portions of the regulation govern depends on whether the planned work is classified as "abatement" as defined by 40 CFR 745.223 (a). Construction projects generally do not meet the definition of "abatement" work and will typically be considered a "Renovation, Repair, or Painting" (RRP) activity under the regulation and would therefore be regulated by 40 CFR 745 Subpart E – Residential Property Renovation. Projects meeting the definition of "abatement" are regulated by 40 CFR 745 Subpart L – Lead-Based Paint Activities.

After establishing which regulation is applicable to the work, the degree to which the work is regulated depends on numerous factors and must be determined on a case-by-case basis. The main pertinent factors include: when was the facility constructed, what age groups occupy the building, where in the building are those groups are located, what is the duration of occupancy for the age groups, are lead-based paints known or assumed to be present, and what quantity of lead-based paint will be disturbed in each area. It is the Owner's and/or contractor's responsibility to review the requirements of 40 CFR 745 to determine which portions apply, if any, to each unique work task required by the project.

The disposal of lead-containing materials is regulated by the EPA, and the extent to which disposal is regulated depends mainly on the type of waste being disposed of and whether the waste is classified as a hazardous or non-hazardous waste in accordance with 40 CFR 261. Typical lead-containing wastes generated during construction projects include, but are not limited to, construction and demolition debris wastes which contain lead, metallic lead wastes, and Universal Waste lead-acid batteries.

All wastes meeting the definition of a "solid waste" as defined by 40 CFR 261.2 must have a hazardous waste determination in accordance with 40 CFR 261 to further characterize the wastes as hazardous or non-hazardous.

The regulations contain many exclusions and other criteria for defining a solid waste, however, for the purposes of this report that definition may be thought of as any waste generated during the course of the construction project.

Construction and demolition debris wastes which contain lead must be TCLP tested in accordance with 40 CFR 261. The results of the TCLP will determine whether the waste stream is characterized as a hazardous or non-hazardous waste for lead, and thus, how those wastes must be managed. There are many factors which can influence the TCLP testing results, such as what lead-containing materials are present in the waste stream, the condition of those materials, how the waste streams are segregated, the total proportion of lead-containing wastes to each individual waste stream, sample selection, among others. Based on studies performed by the United States Army and prior review of TCLP testing results, most construction and demolition debris waste streams are not likely to be classified as a hazardous waste for lead when the waste stream for the entire project is considered. Waste streams which contain relatively large quantities of materials containing high levels of lead or waste streams in which the lead-containing wastes are disproportionately segregated are more likely to be classified as a hazardous waste.

Metallic lead or components with metallic lead by themselves would likely be classified as a hazardous waste. However, these types of wastes can typically be recycled, and the hazardous waste regulations provide an exemption to these wastes as long as they are recycled and managed in accordance with 40 CFR 261.

Lead-acid batteries contain metallic lead and corrosive liquids which are both considered hazardous wastes by 40 CFR 261. However, lead-acid batteries may be managed as a Universal Waste in accordance with 40 CFR 273.

D. Conclusions and Recommendations

The disturbance and disposal of lead-containing paints and other materials are subject to regulation by the agencies described above among others. All lead-related work must be performed in accordance with all applicable laws whether they are referenced within this report or not.

9. Other Common Hazardous Building Materials

Other ***common hazardous building materials*** include mercury-containing materials, PCB-containing light ballasts, Ozone Depleting Substances (ODS), materials with radioactive components, and heat transfer fluids.

A. Mercury

The assessment did not include inspection for components suspected of containing mercury.

a. Survey Results

Refer to Appendix C.1 for a matrix showing the materials which were assumed to contain mercury by this or previous assessments.

b. Discussion on Findings

As discussed above, no specific inspection for mercury-containing materials was performed. However, fluorescent lighting and high intensity discharge lighting were observed during the site visit which are assumed to contain mercury. The 2020 EMI report noted the presence of mercury-containing thermostats, and those thermostats are assumed to still be present but were not specifically noted by HTRW, LLC.

No mercury-containing equipment was observed but may also be present.

c. Regulatory Discussion

Mercury is commonly found in fluorescent, high intensity discharge, neon, mercury vapor, high pressure sodium, and metal halide lamps; in mercury-containing equipment such as thermostats, controls, and switches; and in poured rubber-like polyurethane flooring. These materials are regulated in different ways depending on the amount

of mercury present, the condition of the components which contain mercury, and the quantity of mercury-containing materials being removed.

Materials which contain greater than 0.2 mg/L of mercury by TCLP testing are classified as a hazardous waste by the EPA and DOT and are subject to special packaging, labeling, disposal, transportation, and documentation requirements in accordance with Title 40 CFR, Chapter I, Subchapter I (EPA, Solid Wastes regulations 40 CFR 239-299) and Title 49 CFR, Subtitle B, Chapter I, Subchapter C (DOT, Hazardous Materials Regulations 49 CFR Parts 171-185).

Components such as lamps and thermostats can typically be classified as a hazardous waste based on visual inspection, either by cross referencing manufacturer labels on lamps to the testing results published by the manufacturer, or due to the visible presence of elemental mercury. Similarly, some lamps can be classified as a non-hazardous waste by cross referencing manufacturer labels on lamps to the testing results published by the manufacturer. The use of lamps with “green tip” or “eco” labels does not guarantee that the lamps do not contain mercury above regulatory thresholds for hazardous wastes, and all bulbs must be inspected to determine whether they are classified as a hazardous waste or not.

Mercury-containing lamps and equipment may alternatively be managed as a Universal Wastes in accordance with 40 CFR 273. The purpose of the Universal Waste regulations is to streamline the hazardous waste management standards for certain categories of hazardous waste that are commonly generated by a wide variety of establishments by promoting the collection and recycling of Universal Waste, easing the regulatory burden on retail stores and other generators that wish to collect these wastes and transporters of these wastes, and to encourage the development of municipal and commercial programs to reduce the quantity of these wastes going to municipal solid waste landfills or combustors. However, the EPA does not require that mercury-containing lamps or equipment be managed as Universal Wastes, and these types of wastes may be managed as hazardous waste if the generator desires.

Refer to paragraph F Regulatory References below for a partial listing of applicable regulations.

d. Conclusions and Recommendations

The disturbance and disposal of mercury-containing materials are subject to regulation by the agencies described above among others. All mercury-related work must be performed in accordance with all applicable laws whether they are referenced within this report or not.

B. PCB-Containing Materials

The assessment did not include inspection of light fixtures in the building to determine if PCB-containing light ballasts and/or contamination from a former ballast were present, but limited sampling of building materials for PCB analysis was performed.

a. Survey Results

Refer to Appendix C.1 for a matrix showing the materials which were confirmed or assumed to contain PCBs by this or previous assessments, Appendix C.2 for the results of the PCB testing, and Appendix D for drawings of sample locations.

b. Discussion on Findings

As discussed above, no specific inspection for PCB-containing light ballasts was performed. However, fluorescent lighting and high intensity discharge lighting were observed during the site visit which are assumed to contain PCB ballasts. The 2020 EMI report notes that they did inspect for the presence of PCB-containing ballasts, but the report is unclear on their findings as it states, “all those inspected were not notably labeled”. Typically, ballasts without a

“no PCB” label, or those with a missing label, will be characterized as PCB-containing. Due to the age of the building, PCB-containing ballasts are likely to be present, and contamination from leaking ballasts is also likely to be present.

Polychlorinated Biphenyls (PCBs) were once widely used for various industrial and commercial applications such as in electrical equipment, heat transfer equipment, and hydraulic equipment; as a plasticizer in paints, plastics, and rubber products; as pigments and dyes for carbonless copy paper; among other industrial applications. The manufacturing and use of PCBs at certain concentrations was banned for most products in 1979 by the EPA. Stocks of supplies could be used after this date, and many PCB-containing materials are known to have been used after 1979.

Other common materials that have historically been shown to contain PCBs include paints, caulking, printed circuit boards and attached components like transistors and capacitors, hydraulic fluids, oils, wire and cable insulation, plastic products, fiberglass, felt, foams, cork, miscellaneous adhesives and tapes, flooring products, among many other less-common building-related uses.

The analytical results of the building materials sampled indicate that PCBs are present at the building in concentrations exceeding 1 mg/Kg in some materials. The results also show some materials containing PCBs in quantifiable concentrations lower than 1 mg/Kg.

The dark-brown mastic used to glue ceiling tiles to the gypsum board substrate was confirmed to contain 1.7 mg/Kg of total PCBs. A sample of the glued-on ceiling tile from the same location contained 0.54 mg/Kg of total PCBs, however, it is unclear if the glued-on tile was the primary source of the PCBs, or if the PCBs came from another source, such as the attached mastic. The gypsum board substrate was not sampled at this location, but this report assumes that the glued-on ceiling tiles, the mastic, and the gypsum board substrate will be classified as a PCB waste by Alaska DEC regulations.

The white paint used on interior window components (sills, trim, casings, etc.) was confirmed to contain 1.1 mg/Kg of Total PCBs. This report assumes that both the paint and the wood substrate will be classified as a PCB waste by Alaska DEC regulations.

The heavy weight tar impregnated felt under the wooden MPR floor was confirmed to contain 1.3 mg/Kg of total PCBs. This report assumes that both the paint and the upper 1 inch of concrete substrate will be classified as a PCB waste by Alaska DEC regulations.

The translucent varnish applied to the plywood wall paneling which is common throughout the building was confirmed to contain 4.9 mg/Kg of total PCBs. This report assumes that both the translucent varnish and the plywood wall paneling will be classified as a PCB waste by Alaska DEC regulations.

The beige paint on the exterior concrete walls was confirmed to contain 0.90 mg/Kg of total PCBs which is less than the 1 mg/Kg threshold set by the Alaska DEC. However, because this result is close to the threshold, this report recommends assuming that the paint and the surface of the concrete substrate will be classified as a PCB waste by Alaska DEC regulations. This recommendation is based on the fact that only a limited number of samples were collected, and because the sample collection process introduces contaminants into the sample which could potentially “dilute” the total PCB concentrations in the target material, which in this case was the paint and not the concrete substrate. This report assumes that the corrugated metal siding will have little to no contamination within its matrix due to leaching of PCBs from the applied beige paint.

The green paint used on exterior window components (sills, trim, casings, etc.) of the “west wing” was confirmed to contain 34.1 mg/Kg of Total PCBs. This report assumes that both the paint and the wood substrate will be classified as a PCB waste by Alaska DEC regulations.

The beige paint used in the janitor closet outside of Men 119 was confirmed to contain 12.3 mg/Kg of Total PCBs. This report assumes that the paint and the wood and gypsum board substrates will be classified as a PCB waste by Alaska DEC regulations.

The white paint used on interior "Marlite" wall panels was confirmed to contain 1.0 mg/Kg of Total PCBs. This report assumes that both the paint and the "Marlite" substrate will be classified as a PCB waste by Alaska DEC regulations.

"Blank" samples were not analyzed due to field collection techniques and the uncertainty about how the analytical results could be interpreted. Because PCBs are not water soluble, and the field samples were collected using water-based wipes instead of a wipe with an organic-based solvent, it could not be guaranteed that "all" of the potential surface PCB contamination would have been "picked up" by the wipe. Additionally, the laboratory reported that there was the potential for interference due to the organic nature of the wipe matrix itself, and therefore, any results produced may not have been accurate. Therefore, it was decided that analysis of the blank samples submitted would not be performed as the data would not yield results which could be interpreted in any useful way.

Other PCB-containing materials classified as PCB Bulk Product wastes are assumed to be present at the building, and additional sampling will be required prior to any future renovation or demolition activities at the building should the Alaska DEC maintain its current interpretation of the Alaska Administrative Code as it relates to PCB wastes. Other categories of PCB waste defined by federal regulation are also assumed to be present at the building.

c. Regulatory Discussion

Materials which contain PCBs are regulated in different ways which depends mainly on what concentrations and types of PCBs are present, what physical form the PCBs are in, what components the PCBs were used in, and how the PCB wastes were generated. The transportation and disposal of PCBs are regulated by the EPA, DOT, the Alaska Department of Environmental Conservation, and the Alaska Department of Transportation and Public Facilities and are subject to special packaging, labeling, disposal, transportation, and documentation requirements in accordance with 40 CFR 761; Title 49 CFR, Subtitle B, Chapter I, Subchapter C (DOT, Hazardous Materials Regulations 49 CFR Parts 171-185); 17 AAC 25, 18 AAC 60.

Under federal regulations found at 40 CFR 761.62, certain materials meeting the definition of "PCB Bulk Product waste" may be disposed of "in a facility permitted, licensed, or registered by a State as a municipal or non-municipal non-hazardous waste landfill". Most PCB wastes generated by renovation or demolition activities at buildings will fall under the classification of a "PCB Bulk Product waste" which would allow for disposal at a non-TSCA landfill. However, based on guidance from the Alaska DEC and their interpretation of the Alaska Administrative Code, no PCB wastes exceeding 1 mg/Kg of total PCBs are currently allowed to be disposed of at any location in Alaska.

According to the Alaska DEC's interpretation of the Alaska Administrative Code, landfill owners and operators are obligated to prohibit the disposal of wastes containing PCBs in accordance with 18 AAC 60.240, and this is accomplished mainly by implementing "*a program at the facility to detect and prevent the disposal of regulated hazardous waste and PCB waste as defined in 40 C.F.R. 761.3*". Although there is no specific requirement for a landfill owner or operator to sample materials to determine the presence or concentration of PCBs under 18 AAC 60.240, because it is not possible to determine the presence or concentrations of PCBs by visual means, it is the DEC's interpretation that sampling is thus an inferred requirement under the AAC. Additionally, guidance from the Alaska DEC provides that building wastes could potentially be classified as "*polluted soil*" by 18 AAC 60.990(103)(B) "*a residue or other material that is placed into a landfill and that is not a regulated hazardous waste but contains a hazardous substance in a concentration exceeding the applicable soil cleanup levels set out in 18 AAC 75.341, Table B1 or Table B2*". Table B1 in 18 AAC 75.341 shows the soil cleanup levels for PCBs as 1.0 mg/kg, and therefore, this is the criteria which has been used by this report to determine the applicability of Alaska DEC regulations to the wastes.

Additionally, landfill owners and operators may set more stringent criteria than either Alaska DEC or EPA requirements. This report assumes that waste which may be accepted for disposal at landfills located within Alaska to be less than 1.0 mg/kg of total PCBs, and that waste equaling or exceeding 1.0 mg/kg of total PCBs will be disposed of at a landfill permitted and willing to accept the wastes located somewhere in the Pacific Northwest.

Refer to paragraph F Regulatory References below for a partial listing of applicable regulations.

d. Conclusions and Recommendations

The disturbance and disposal of PCB-containing materials are subject to regulation by the agencies described above among others. All PCB-related work must be performed in accordance with all applicable laws whether they are referenced within this report or not.

C. Ozone Depleting Substances

The assessment did not include inspection for components in the building to determine if ODS were present.

a. Survey Results

Refer to Appendix C.1 for a matrix showing the components which were assumed to contain ODS by this or previous assessments.

b. Discussion on Findings

As discussed above, no specific inspection for equipment containing ODS was performed. Equipment with ODS assumed to be present at the site include consumer-grade refrigerators, portable air conditioning equipment, and other commercial refrigeration equipment. Formulations of ODS at the site are assumed to include both Class I and Class II ODS.

c. Regulatory Discussion

Ozone Depleting Substances (ODS) are broadly categorized by the EPA as either Class I ODS or Class II ODS. Class I ODS have an ozone depletion potential of 0.2 or higher, and include halons, chlorofluorocarbons (CFCs), methyl chloroform, carbon tetrachloride, and methyl bromide. Class I ODS have been subject to an accelerated phaseout schedule by the EPA. Class II ODS have an ozone depletion potential less than 0.2 and are all hydrochlorofluorocarbons (HCFCs). Class II ODS were typically developed as replacements to Class I ODS and have a later phaseout schedule than Class I ODS.

All ODS work must be performed by personnel who have passed an EPA-approved test for certification under 40 CFR 82.161. There are four types of certifications available under 40 CFR 82.161: Type I is required for persons servicing small appliances; Type II is required for servicing or disposing of high- or very high-pressure appliances, except small appliances and MVACs (Motor Vehicle Air Conditioning); Type III is required for servicing or disposing of low-pressure appliances; and Universal technician certification and allows for servicing all types of equipment. Servicing of motor vehicle air conditioning systems requires training and certification in accordance with 40 CFR 82 Subpart B which is generally not needed for building systems and components.

Refer to paragraph F Regulatory References below for a partial listing of applicable regulations.

d. Conclusions and Recommendations

The disturbance and disposal of ODS are subject to regulation by the agencies described above among others. All ODS-related work must be performed in accordance with all applicable laws whether they are referenced within this report or not.

D. Components with Radioactive Materials

The assessment did not include inspection for components in the building to determine if radioactive materials were present.

a. Survey Results

Refer to Appendix C.1 for a matrix showing the components which were assumed to contain radioactive materials by this or previous assessments.

b. Discussion on Findings

As discussed above, no specific inspection for radioactive materials was performed. However, the 2020 EMI report noted the presence of self-illuminating exit signs. HTRW did not note any of these types of signs at the facility at the time of the site visit but may be present. Similarly, smoke detectors with radioactive components were not observed but may be present in building.

c. Regulatory Discussion

Certain components in buildings have been historically known to contain radioactive elements, such as self-illuminating exit signs with a radioactive form a hydrogen called tritium, and smoke detectors with americium-241, radium-226, or nickel-63. These components are considered safe when intact and used in accordance with the manufacturer's instructions and may typically be removed without special training. However, the transportation and disposal of components with radioactive elements is regulated by the Nuclear Regulatory Commission (NRC) under Title 10 CFR, Chapter I (10 CFR Parts 1-199) and is typically performed by returning the components to the manufacturer or other firm licensed by the NRC to accept radioactive wastes.

Refer to paragraph F Regulatory References below for a partial listing of applicable regulations.

d. Conclusions and Recommendations

The disturbance and disposal of radioactive materials are subject to regulation by the agencies described above among others. All radioactive materials-related work must be performed in accordance with all applicable laws whether they are referenced within this report or not.

E. Heat Transfer Fluids

The assessment did not include visual inspection of heating system components in the building to determine what types of heat transfer fluids were present.

a. Survey Results

Refer to Appendix C.1 for a matrix showing the components which were confirmed or assumed to contain heat transfer fluids by this or previous assessments.

b. Discussion on Findings

As discussed above, no specific inspection of heating system components in the building to determine what types of heat transfer fluids were present was performed. This report assumes that the building uses a glycol-based heat transfer fluid of unknown formulation which is assumed to not be classified as a hazardous waste.

c. Regulatory Discussion

Heating and cooling systems in buildings (and generators) may contain heat transfer fluids which are potentially classified as a hazardous waste or other special waste category. These systems typically use various formulations of glycols or water and other additives in order to achieve the desired performance characteristics. Some types of heat transfer fluids may be classified as a hazardous waste or other special waste category based on the original formulation. Additionally, heat transfer fluids are subject to variations in temperature, pH, velocity, age, among other variables which can alter the chemistry of the fluids in unpredictable ways. Due to these variations, heat transfer fluids must have a hazardous waste determination performed prior to disposal in accordance with 40 CFR 261. This determination includes collecting a representative sample of the heat transfer fluids which will be disposed of and having a TCLP test performed on the sample. The TCLP test must include analysis for the RCRA 8 metals at a minimum, and corrosivity must also be determined. Additional testing may be required due to unique circumstances of any particular heating and cooling system.

Based on available data, heat transfer fluids are not typically classified as a hazardous waste, and if recycled, are typically exempt from the hazardous waste regulations.

Refer to paragraph F Regulatory References below for a partial listing of applicable regulations.

d. Conclusions and Recommendations

The disturbance and disposal of heat transfer fluids are subject to regulation by the agencies described above among others. All work involving heat transfer fluids must be performed in accordance with all applicable laws whether they are referenced within this report or not.

F. Regulatory References

Work involving the removal and disposal of ***common hazardous building materials*** is a highly regulated industry, and the assessment performed by HTRW, LLC was partially intended to identify those ***common hazardous building materials*** so that the health and safety requirements of various governing agencies as they relate to those materials could be satisfied. A partial listing of applicable public laws, statutes, and regulations include:

- Nuclear Regulatory Commission:
  - 10 CFR 20 – Standards for Protecting Against Radiation
- Occupational Safety and Health Administration:
  - 29 CFR 1910.120 – Hazardous Waste Operations and Emergency Response
  - 29 CFR 1910.134 – Respiratory Protection
  - 29 CFR 1910.1000 – Air Contaminants
  - 29 CFR 1910.1200 – Hazard Communication
  - 29 CFR 1926.55 – Gases, Vapors, Fumes, Dusts, and Mists
  - 29 CFR 1926.57 – Ventilation
  - 29 CFR 1926.65 – Hazardous Waste Operations and Emergency Response
  - 29 CFR 1926.95 – Criteria for Personal Protective Equipment
  - 29 CFR 1926.353 – Ventilation and Protection in Welding, Cutting, and Heating
- United States Environmental Protection Agency:
  - 40 CFR 82 – Protection of Stratospheric Ozone
  - 40 CFR 260 – Hazardous Waste Management System: General
  - 40 CFR 261 – Identification and Listing of Hazardous Waste
  - 40 CFR 262 – Standards Applicable to Generators of Hazardous Waste
  - 40 CFR 263 – Standards Applicable to Transporters of Hazardous Waste
  - 40 CFR 264 – Standards for Owners and Operators of Hazardous Waste Treatment, Storage, And Disposal Facilities
  - 40 CFR 265 – Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, And Disposal Facilities
  - 40 CFR 266 – Standards for The Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities
  - 40 CFR 267 – Standards for Owners and Operators of Hazardous Waste Facilities Operating Under a Standardized Permit
  - 40 CFR 268 – Land Disposal Restrictions
  - 40 CFR 270 – EPA Administered Permit Programs: The Hazardous Waste Permit Program
  - 40 CFR 271 – Requirements for Authorization of State Hazardous Waste Programs
  - 40 CFR 272 – Approved State Hazardous Waste Management Programs
  - 40 CFR 273 – Standards for Universal Waste Management
  - 40 CFR 761 – Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions

- United States Department of Transportation:
  - 49 CFR Part 107 – Hazardous Materials Program Procedures
  - 49 CFR Part 171 – General Information, Regulations, and Definitions
  - 49 CFR Part 172 –Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, Training Requirements, and Security Plans
  - 49 CFR Part 173 – Shippers- General Requirements for Shipments and Packagings
- Alaska Statutes:
  - AS Section 18.60 – Safety
  - AS Section 23.05 – Department of Labor and Workforce Development
- Alaska Administrative Code:
  - 8 AAC 61 – Occupational Safety and Health Division
  - 8 AAC 61.1010-1190 – Occupational Safety and Health Standards
  - 18 AAC 60 – Solid Waste Management
  - 18 AAC 62 – Hazardous Waste
  - 18 AAC 70 – Water Quality Standards
  - 18 AAC 72 – Wastewater Treatment and Disposal
  - 18 AAC 75 – Oil and Other Hazardous Substances Pollution Control
  - 18 AAC 85 – Radiation Protection

10. Other Materials and Considerations

Other potentially hazardous materials may be present at the site, and there may also be other health, safety, and environmental considerations which are not a part of this report. Examples of these other potentially hazardous materials may include, but are not limited to: wastes classified as Hazardous Wastes; Hazardous Substances; Toxic and Hazardous Substances; Biological Wastes; among others. Examples of other health and safety considerations include, but are not limited to: electrical hazards; fire hazards; hazards from dust, odors, and fumes; scaffolding hazards; among others generally defined in 20 CFR 1910 – General Industry, 29 CFR 1926 – Construction, and other non-specific hazards subject to the General Duty Clause.

This report identifies those materials defined by this report as ***common hazardous building materials***, however, these materials include only a small portion of the potential health, safety, and environmental hazards which may be present at the site. It is the duty of each employer to analyze each unique situation to determine potential health, safety, or environmental hazards which may be present. Persons performing these analysis may include, but are not limited to: those meeting the OSHA definition of an Authorized Person, Competent Person, or Qualified Person; individuals certified as a Certified Safety Professional, Certified Industrial Hygienist, or Certified Environmental Professional; individuals with academic degrees in Occupational Safety and Health and other closely related degrees.

Although most sites contain various potentially hazardous materials and workplace hazards, the assessment was not intended to identify and characterize each individual material or hazard. Materials or hazards which were apparent or noteworthy in the inspector's professional opinion were noted and are discussed below. Materials or hazards which could reasonably be expected to present immediate dangers to the health and safety of the site's occupants or others were noted and appropriate representatives notified.

A. Survey Results

Various cementitious products were observed at the site, such as poured concrete foundations and walls, grout and mortar for quarry tile and ceramics, and refractory/fire brick materials inside of the original chimney. These specific products are assumed to contain crystalline silica, but other components may be present at the site which also contain crystalline silica.

B. Discussion on Findings

Materials including, but not limited to, natural and artificially created sand, stone, rock, concrete, brick, block, mortar, ceramics, glass, pottery, and various blasting medias typically contain crystalline silica, and the disturbance of these types of materials are regulated by 29 CFR 1910.1053 and 29 CFR 1926.1153 if the crystalline silica is respirable. Respirable crystalline silica is defined by regulation as:

Quartz, cristobalite, and/or tridymite contained in airborne particles that are determined to be respirable by a sampling device designed to meet the characteristics for respirable-particle-size-selective samplers specified in the International Organization for Standardization (ISO) 7708:1995: Air Quality—Particle Size Fraction Definitions for Health-Related Sampling

A more generalized definition of respirable crystalline silica is "very small particles at least 100 times smaller than ordinary sand you might find on beaches and playgrounds". Activities including, but not limited to, cutting, sawing, sanding, grinding, drilling, crushing, and abrasive blasting of materials containing crystalline silica will result in worker exposures to respirable crystalline silica dust.

C. Regulatory Discussion

There are numerous regulations governing other potentially hazardous materials or other health, safety, or environmental issues. A partial listing of applicable public laws, statutes, and regulations include:

- United States Code of Federal Regulations:
  - Title 1 – General Provisions
  - Title 24 – Housing and Urban Development
  - Title 29 – Labor
    - 29 CFR 1910.1053 – Respirable Crystalline Silica in General Industry
    - 29 CFR 1926.1153 – Respirable Crystalline Silica in Construction
  - Title 40 – Protection of the Environment
  - Title 46 – Shipping
  - Title 49 – Transportation
- Alaska Statutes:
  - AS Section 18.60 – Safety
  - AS Section 23.05 – Department of Labor and Workforce Development
- Alaska Administrative Code:
  - 8 AAC 61 – Occupational Safety and Health Division

D. Conclusions and Recommendations

All employers working at the site are responsible for identifying other potentially hazardous materials or other health, safety, and environmental hazards, and all work must be performed in accordance with all applicable laws whether they are referenced within this report or not.

11. Limitations

The conclusions and recommendations contained in this report are based on professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted consulting and industry standards and practices and are subject to the following inherent limitations:

A. Accuracy of Information

The conclusions, opinions, and recommendations found in this report are based in large part on the results of the laboratory analysis of samples of building materials collected during the limited assessments. Should such

information provided be found to be inaccurate or unreliable, HTRW, LLC reserves the right to amend or revise its conclusions, opinions, and/or recommendations.

B. Site Conditions

This limited assessment did not include investigation of the entire site and may not be valid outside the assessment boundaries. The intent of this assessment was to identify ***common hazardous building materials*** that may be present at the site which may be affected by future renovation or demolition projects at the building. This assessment was not intended to satisfy any regulatory requirements as they apply to ***common hazardous building materials***. The assessment was performed while the building was partially occupied, with furniture, equipment and/or stored items in place, and did not include destructive examination to seek out concealed materials, and many ***common hazardous building materials*** may not have been identified. This assessment was not intended to identify all ***common hazardous building materials*** that may be present at the building, however, every attempt was made to identify these materials within the budget and scope agreed on with our client and as detailed in this report. Homogenous areas of ***common hazardous building materials*** may vary from what was observed onsite and subsequently described in this report due to limiting factors such as the lack of historical information, paints and surfacing materials, or other concealing components. Although the information in this report may be used as supplemental information to future activities at the building, additional sampling and investigations must be performed by qualified persons prior to any future maintenance, demolition, or renovation activities.

C. Evolving Regulatory Landscape

Statutes, regulations, interpretations, court rulings, industry standards, best management practices, among other pertinent factors continuously change and evolve over time, and in many cases may be interpreted differently by different authorities having jurisdiction at local, state, federal, or other levels. The content of this report is based on these factors understood to be current at the time of this report and in the locality of where the buildings are located. HTRW, LLC reserves the right to amend or revise the content of this report should any of these factors change.

Appendix A – Asbestos

Appendix A.1 – Asbestos-Containing Materials Matrix

HERC1, Homer Education and Recreation Complex 1, 450 Sterling Highway, Homer, Alaska 99603			
MATERIAL DESCRIPTION	**EPA CATEGORY**	**ASSUMED/ CONFIRMED**	**NOTES**
Built-up roof materials	1	A	The 2020 EMI report did not contain sufficient descriptions to determine if they collected enough samples to characterize these materials as asbestos-free and this report assumes the materials contain asbestos
Debris and remnants from built-up roof materials	1	A	
Flange gaskets	1	A	
Valve packings	1	A	
Various colors and patterns of 9” x 9” and 12” x 12” floor tiles	1	A	The 2020 EMI report did not collect enough samples to characterize these materials as asbestos-free and did not perform TEM NOB analysis of these materials which is recommended
Various other roof tars and mastics	1	A	The 2020 EMI report did not contain sufficient descriptions to determine if they collected enough samples to characterize these materials as asbestos-free and this report assumes the materials contain asbestos
“Copper clad” paper used in Can Storage Room 10 in the kitchen	2	A	Noted on 1956 drawings
Black flooring mastic	2	C	Previously confirmed by 2020 EMI report
Black rubber stair stringer	2	A	The May 2023 assessment only collected 1 sample and additional sampling is recommended to fully characterize this material
Brick, grout, refractory, etc. used inside of the original chimney	2	A	
Corkboard mastic used at various locations of the inside face of exterior concrete walls	2	A	
Dampproofing on below grade concrete foundation walls	2	A	

HERC1, Homer Education and Recreation Complex 1, 450 Sterling Highway, Homer, Alaska 99603			
MATERIAL DESCRIPTION	**EPA CATEGORY**	**ASSUMED/ CONFIRMED**	**NOTES**
Grey sticky putty used at the seams of the exterior corrugated metal siding	2	C	
Hard grey-brown window glazing compound on exterior side of exterior windows	2	C	
Heavy weight tar impregnated felt under wooden MPR floor	2	A	The May 2023 assessment only collected 1 sample and additional sampling is recommended to fully characterize this material
High-temperature wiring insulation inside of older light fixtures	2	A	
Joint compound on older gypsum board systems (walls, ceilings, soffits, etc.)	2	C	Previously confirmed by 2020 EMI report
Tan “raised dot” rubber flooring at stair landings and rubber flooring materials on stair treads and risers	2	A	The May 2023 assessment only collected 1 sample of the rubber flooring at the upper level landing and no samples of the other rubber materials. Additional sampling is recommended to fully characterize these materials.
Tarry coating on the inside face of exterior concrete walls	2	A	
Tarry lining of clock-speaker box housings and speaker box housings	2	A	
Undercoatings on the bottom of stainless steel sinks and drinking fountains	2	A	
Vapor barrier materials in shower and locker room floor, wall, and ceiling assemblies	2	A	
Various colors and consistencies of duct seam sealants	2	A	
Various colors of penetration putties	2	A	
Various mastics used behind “Marlite” wall panels, plywood wall panels, mirrors, chalkboards, etc.	2	A	
Dark brown mastic for glued-on ceiling tiles	≤1%	C	Likely contains greater than 1% asbestos if analyzed by TEM NOB
Hard light grey sealant used between exterior window frames and wall openings of the MPR	≤1%	C	Likely contains greater than 1% asbestos if analyzed by TEM NOB

HERC1, Homer Education and Recreation Complex 1, 450 Sterling Highway, Homer, Alaska 99603			
MATERIAL DESCRIPTION	**EPA CATEGORY**	**ASSUMED/ CONFIRMED**	**NOTES**
Various colors and sizes of rubber cove base materials and their associated mastics	NAD	C	The 2020 EMI report appears to have sufficiently sampled these materials to characterize them as asbestos-free. Site verification required to determine if other types of materials are present.
Various colors of carpet mastics	NAD	C	The 2020 EMI report appears to have sufficiently sampled these materials to characterize them as asbestos-free. Site verification required to determine if other types of materials are present.
Various grouts, mastics, and mortars associated with ceramic floor, wall, and ceiling tiles	NAD	C	The 2020 EMI report appears to have sufficiently sampled these materials to characterize them as asbestos-free. Site verification required to determine if other types of materials are present.
“Hard fitting” pipe insulation at fittings, valves, hangars, etc.	RACM	C	Previously confirmed by 2020 EMI report
Insulating materials inside of doors	RACM	A	
Insulation on abandoned boiler	RACM	C	Previously confirmed by 2020 EMI report
Insulation on underslab piping	RACM	A	
Other colors of woven flexible duct connector cloth	RACM	A	RACM designation applied by this report
Replacement flooring materials and their associated mastics, leveling compounds, and substrate to which these are adhered	RACM	A	
Various colors and patterns of sheet vinyl	RACM	A	
Vermiculite insulation at the chimney penetration through the ceilings and roof	RACM	A	
White woven flexible duct connector cloth	RACM	C	RACM designation applied by this report
Sealants, gaskets, linings, etc. used in/on various HVAC equipment	V	A	
Sealants, gaskets, refractory, etc. used in/on the abandoned boiler	V	A	

HERC1, Homer Education and Recreation Complex 1, 450 Sterling Highway, Homer, Alaska 99603			
MATERIAL DESCRIPTION	**EPA CATEGORY**	**ASSUMED/ CONFIRMED**	**NOTES**
Sealants, gaskets, refractory, etc. used in/on the operating boiler	V	A	
Unknown materials in the pipe tunnels	V	A	

Notes to Asbestos-Containing Materials Matrix:

- Materials labeled with a "C" designation are materials which have been confirmed to contain asbestos.
- Materials labeled with an "A" designation are materials which are assumed to contain asbestos.
- Materials labeled with an "NOB" designation are materials which are classified as a "Non-Friable Organically Bound Material" which were sampled and did not contain asbestos by PLM that are assumed to contain asbestos in greater than 1% if analyzed by TEM NOB.
- Materials labeled as ≤1% contained asbestos at concentrations of less than or equal to one percent.
- Materials labeled with an "NAD" designation are materials which were sufficiently sampled and found not to contain asbestos.
- Materials labeled with a "None" designation are materials which were not observed and not believed to be present.
- Materials labeled with a "-" means there was not enough information to determine if the material was present in the individual building, but it does not mean that the material is not present or that the material does not contain asbestos.
- Where EPA Category is labeled as "V", the materials are typically part of an assembly and may have more than one EPA Category material.

Appendix A.2 – Table of Asbestos Samples

HERC1, Homer Education and Recreation Complex 1, 450 Sterling Highway, Homer, Alaska 99603				
SAMPLE NUMBER	**SAMPLE DESCRIPTION**	**SAMPLE LOCATION**	**PHOTO REFERENCE**	**SAMPLE RESULTS**
HERC1-0523-A01	**L1: Hard grey-brown window glazing compound**	**West exterior of Room 105 on operable window**	**265**	**L1: 1.3% Chrysotile**
HERC1-0523-A02	L1: Hard tan sealant used between exterior window frames and wall openings L2: White sealant layer identified by the lab	West exterior of Room 105 between wood window sill and metal drip edge/flashing	261	L1: None Detected L2: None Detected
HERC1-0523-A03	**L1: Grey sticky putty used at the seams of the exterior corrugated metal siding**	**West exterior of Room 105 at seam of corrugated metal siding**	**266**	**L1: 0.25% Chrysotile**
HERC1-0523-A04	**L1: Grey sticky putty used at the seams of the exterior corrugated metal siding**	**East exterior of MPR at seam of corrugated metal siding**	**272**	**L1: 1.2% Chrysotile**
HERC1-0523-A05	**L1: Hard light grey sealant used between exterior window frames and wall openings**	**East exterior of MPR at northern-most window between wood window sill and metal drip edge/flashing**	**283**	**L1: 0.5% Chrysotile**
HERC1-0523-A06	**L1: White woven flexible duct connector cloth**	**From kitchen exhaust duct at south side of mechanical "mezzanine" above second floor janitor closet**	**301**	**L1: 35% Chrysotile**
HERC1-0523-A07	L1: Black rubber stair stringer	From base of north wall at stair landing	304	L1: None Detected
HERC1-0523-A08	L1: Tan "raised dot" rubber flooring	From top of stairwell at second floor "landing"	305	L1: None Detected
HERC1-0523-A09	L1: (GCT1) Glued-on ceiling tile, 12" x 12" with 1/8"-1/4" wide deep directional fissures and pinholes, main pattern of glued-on ceiling tile found in facility	In corridor outside of Room 110	308	L1: None Detected
HERC1-0523-A10	**L1: Dark brown mastic for glued-on ceiling tiles**	**In corridor outside of Room 110**	**306**	**L1: 0.25% Chrysotile**
HERC1-0523-A11	L1: Hard off-white window glazing compound on interior side of exterior windows	From wood-framed window on east side of Room 110	314	L1: None Detected

HERC1, Homer Education and Recreation Complex 1, 450 Sterling Highway, Homer, Alaska 99603				
SAMPLE NUMBER	**SAMPLE DESCRIPTION**	**SAMPLE LOCATION**	**PHOTO REFERENCE**	**SAMPLE RESULTS**
HERC1-0523-A12	L1: Heavy weight tar impregnated felt under wooden MPR floor	South side of MPR under wood floor	327, 328	L1: None Detected
HERC1-0523-A13	L1: Reinforced "Kraft" paper L2: Black tar	South side of MPR under the heavy weight tar impregnated felt under wooden MPR floor	327, 330, 331	L1: None Detected L2: None Detected

Notes to Table of Asbestos Samples:

- "L1", "L2", "L3" designations indicate "Layer 1", "Layer 2", "Layer 3", etc. found in the individual samples. Materials shown in bold font are materials which were found to contain asbestos by laboratory analysis.

  Sample data from previous sampling events is not included in this limited report. Refer to records available from the City of Homer.

Appendix A.3 – Final Laboratory Certificate of Analysis & Chain of Custody

HTRW, LLC

11471 Business Blvd., #773442
Eagle River, Alaska 99577
(907)-917-3801

CHAIN OF CUSTODY

Project Number	*2022-12*					**Selected Laboratory**	*iATL*
Project Name	*City of Homer,* *Homer Education and Recreation Complex (HERC) 2 Demolition;* *HERC1 Screening Subtask*					**Shipping Method**	*FedEx, 7721 5034 9553*
Address/Location	*HERC 1 Building* *450 Sterling Highway,* *Homer, Alaska*					**Date and Time**	*05/16/2022, 11:00 AM*
Client	*City of Homer*					**Samples Received By**	RECEIVED
Inspector/Collected By	*Christopher T. Ottosen*					**Date and Time**	
EPA B.I.# and State	*TBI4-123-17473/Alaska*					**Analyst Signature(s)**	MAY 1 / 2023
Collection Date	*05/05-06/2023*	**Quantity**	*13*	**Turnaround**	*5-Day*		
Requested Analysis	*Asbestos Bulk by PLM, EPA Method 600, R93-116*					iATL By	
Special Notes	*E-mail results to cottosen@htrw-llc.com. Provide a scanned color copy of this chain of custody or return the original hard copies.* *Do not analyze wood, paint, or foam or perform composite analysis of gypsum wall board and joint compound unless specifically asked for in the sample description.*						

SAMPLE NUMBER	SAMPLE DESCRIPTION	SAMPLE LOCATION	PHOTO REFERENCE	LAB SAMPLE ID
HERC1-0523-A01	L1: Hard grey-brown window glazing compound	West exterior of Room 105 on operable window	265	7617559
HERC1-0523-A02	L1: Hard tan sealant used between exterior window frames and wall openings	West exterior of Room 105 between wood window sill and metal drip edge/flashing	261	7617560
HERC1-0523-A03	L1: Grey sticky putty used at the seams of the exterior corrugated metal siding	West exterior of Room 105 at seam of corrugated metal siding	266	7617561
HERC1-0523-A04	L1: Grey sticky putty used at the seams of the exterior corrugated metal siding	East exterior of MPR at seam of corrugated metal siding	272	7617562
HERC1-0523-A05	L1: Hard light grey sealant used between exterior window frames and wall openings	East exterior of MPR at northern-most window between wood window sill and metal drip edge/flashing	283	7617563
HERC1-0523-A06	L1: White woven flexible duct connector cloth	From kitchen exhaust duct at south side of mechanical "mezzanine" above second floor janitor closet	301	7617564
HERC1-0523-A07	L1: Black rubber stair stringer	From base of north wall at stair landing	304	7617565
HERC1-0523-A08	L1: Tan "raised dot" rubber flooring **DO NOT ANALYZE MASTICS IN THIS SAMPLE**	From top of stairwell at second floor "landing"	305	7617566

HTRW, LLC

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Eagle River, Alaska 99577
(907)-917-3801

CHAIN OF CUSTODY

SAMPLE NUMBER	SAMPLE DESCRIPTION	SAMPLE LOCATION	PHOTO REFERENCE	LAB SAMPLE ID
HERC1-0523-A09	L1: (GCT1) Glued-on ceiling tile, 12" x 12" with 1/8"-1/4" wide deep directional fissures and pinholes, main pattern of glued-on ceiling tile found in facility	In corridor outside of Room 110	308	7617567
HERC1-0523-A10	L1: Dark brown mastic for glued-on ceiling tiles **DO NOT ANALYZE TAN DRYWALL PAPER IN THIS SAMPLE**	In corridor outside of Room 110	306	7617568
HERC1-0523-A11	L1: Hard off-white window glazing compound on interior side of exterior windows	From wood-framed window on east side of Room 110	314	7617569
HERC1-0523-A12	L1: Heavy weight tar impregnated felt under wooden MPR floor	South side of MPR under wood floor	327, 328	7617570
HERC1-0523-A13	L1: Reinforced "Kraft" paper L2: Black tar	South side of MPR under the heavy weight tar impregnated felt under wooden MPR floor	327, 330, 331	7617571
--END--				

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: HTRW, LLC
11471 Business Blvd., #773442
Anchorage AK 99577

Client: HTR114

Report Date: 5/23/2023
Report No.: 683608 - PLM
Project: City of Homer; Homer Education and Recreations Complex 2 Demo
Project No.: 2022-12

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7617559
Client No.: HERC1-0523-A01

Analyst Observation: Tan Glazing
Client Description: L1: Hard Grey-Brown Window Glazing

Location: West Exterior of Room 105 on Operable Window
Facility:

Percent Asbestos:
PC 1.3 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
98.7

Lab No.: 7617560
Client No.: HERC1-0523-A02

Analyst Observation: Tan Sealant
Client Description: L1: Hard Tan Sealant Used Between Exterior Window Frames and Wall Openings

Location: West Exterior of Room 105 Between Wood Window Sill and Metal Drip Edge/Flashing
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7617560(L2)
Client No.: HERC1-0523-A02

Analyst Observation: White Sealant
Client Description: L1: Hard Tan Sealant Used Between Exterior Window Frames and Wall Openings

Location: West Exterior of Room 105 Between Wood Window Sill and Metal Drip Edge/Flashing
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7617561
Client No.: HERC1-0523-A03

Analyst Observation: Grey Putty
Client Description: L1: Grey Sticky Putty Used at the Seams of the Exterior Corrugated Metal Siding

Location: West Exterior of Room 105 at Seam of Corrugated Metal Siding
Facility:

Percent Asbestos:
PC 0.25 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
4 Cellulose

Percent Non-Fibrous Material:
95.75

Lab No.: 7617562
Client No.: HERC1-0523-A04

Analyst Observation: Grey Putty
Client Description: L1: Grey Sticky Putty Used at the Seams of the Exterior Corrugated Metal Siding

Location: East Exterior of MPR at Seam of Corrugated Metal Siding
Facility:

Percent Asbestos:
PC 1.2 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
3 Cellulose

Percent Non-Fibrous Material:
95.8

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 5/17/2023
Date Analyzed: 05/23/2023
Signature:
Analyst: Ellen Smith

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: HTRW, LLC
11471 Business Blvd., #773442
Anchorage AK 99577

Client: HTR114

Report Date: 5/23/2023
Report No.: 683608 - PLM
Project: City of Homer; Homer Education and Recreations Complex 2 Demo
Project No.: 2022-12

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7617563
Client No.: HERC1-0523-A05

Analyst Observation: Lt Grey Sealant
Client Description: L1: Hard Light Grey Sealant Used Between Exterior Window Frames and Wall Openings

Location: East Exterior of MPR at Northern -Most Window Between Wood Window Sill and Metal Drip Edge/Flashing
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
PC 0.5 *Chrysotile*	None Detected	99.5

Lab No.: 7617564
Client No.: HERC1-0523-A06

Analyst Observation: White Woven Material
Client Description: L1: White Woven Flexible Duct Connector Cloth

Location: From Kitchen Exhaust Duct at South Side of Mechanical "Mezzanine" Above Second Floor Janitor Closet
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
35 *Chrysotile*	65 Cellulose	None Detected

Lab No.: 7617565
Client No.: HERC1-0523-A07

Analyst Observation: Black Stair Tread
Client Description: L1: Black Rubber Stair Stringer

Location: From Base of North Wall at Stair Landing
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7617566
Client No.: HERC1-0523-A08

Analyst Observation: Grey Flooring
Client Description: L1: Tan "Raised Dot" Rubber Flooring - Do Not Analyze Mastic in This Sample

Location: From Top of Stairwell at Second Floor "Landing "
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7617567
Client No.: HERC1-0523-A09

Analyst Observation: Lt Grey Ceiling Tile
Client Description: L1: (GCT1) Glued-On Ceiling Tile, 12"x12" With 1/8"-1/4" Wide Deep Directional Fissures and Pinholes

Location: In Corridor Outside of Room 110
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	45 Fibrous Glass 4 Cellulose	51

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 5/17/2023
Date Analyzed: 05/23/2023
Signature:
Analyst: Ellen Smith

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: HTRW, LLC
11471 Business Blvd., #773442
Anchorage AK 99577

Client: HTR114

Report Date: 5/23/2023
Report No.: 683608 - PLM
Project: City of Homer; Homer Education and Recreations Complex 2 Demo
Project No.: 2022-12

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7617568
Client No.: HERC1-0523-A10

Analyst Observation: Brown Mastic
Client Description: L1: Dark Brown Mastic for Glued-On Ceiling Tiles - Do Not Analyze Tan Drywall Paper in This Sample

Location: In Corridor Outside of Room 110
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
PC 0.25 *Chrysotile*	None Detected	99.75

Lab No.: 7617569
Client No.: HERC1-0523-A11

Analyst Observation: Off-White Glazing
Client Description: L1: Hard Off-White Window Glazing Compound on Interior Side of Exterior Windows

Location: From Wood-Framed Window on East Side of Room 110
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7617570
Client No.: HERC1-0523-A12

Analyst Observation: Black Felt
Client Description: L1: Heavy Weight Tar Impregnated Felt Under Wooden MPR Floor

Location: South Side of MPR Under Wood Floor
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	65 Cellulose	35

Lab No.: 7617571
Client No.: HERC1-0523-A13

Analyst Observation: Tan Paper
Client Description: L1: Reinforced "Kraft" Paper L2: Black Tar

Location: South Side of MPR Under the Heavy Weight Tar Impregnated Felt Under Wooden MPR Floor
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	97 Cellulose	3

Lab No.: 7617571(L2)
Client No.: HERC1-0523-A13

Analyst Observation: Black Tar
Client Description: L1: Reinforced "Kraft" Paper L2: Black Tar

Location: South Side of MPR Under the Heavy Weight Tar Impregnated Felt Under Wooden MPR Floor
Facility:

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 5/17/2023
Date Analyzed: 05/23/2023
Signature:
Analyst: Ellen Smith

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	HTRW, LLC	Report Date:	5/23/2023
	11471 Business Blvd., #773442	Report No.:	683608 - PLM
	Anchorage AK 99577	Project:	City of Homer; Homer Education and Recreations Complex 2 Demo
		Project No.:	2022-12
Client:	HTR114		

Appendix to Analytical Report

Customer Contact: Chris Ottosen
Method:40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, USEPA 600, R93-116 and NYSDOH ELAP 198.1 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager:wchampion@iatl.com
iATL Account Representative: House Account
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Bulk Building Materials
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB) See additional information at the end of this appendix.

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Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	HTRW, LLC	Report Date:	5/23/2023
	11471 Business Blvd., #773442	Report No.:	683608 - PLM
	Anchorage AK 99577	Project:	City of Homer; Homer Education and Recreations Complex 2 Demo
		Project No.:	2022-12
Client:	HTR114		

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

1) Note: No mastic provided for analysis.
2) Note: Insufficient mastic provided for analysis.
3) Note: Insufficient material provided for analysis.
4) Note: Insufficient sample provided for QC reanalysis.
5) Note: Different material than indicated on Sample Log / Description.
6) Note: Sample not submitted.
7) Note: Attached to asbestos containing material.
8) Note: Received wet.
9) Note: Possible surface contamination.
10) Note: Not building material. 1% threshold may not apply.
11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
12) Note: Asbestos detected but not quantifiable.
13) Note: Multiple identical samples submitted, only one analyzed.
14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites).Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: “ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite.”

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite (https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf)

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1)**Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% for most samples.

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Mt. Laurel, New Jersey 08054
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CERTIFICATE OF ANALYSIS

Client: HTRW, LLC
11471 Business Blvd., #773442
Anchorage AK 99577

Client: HTR114

Report Date: 5/23/2023
Report No.: 683608 - PLM
Project: City of Homer; Homer Education and Recreations Complex 2 Demo
Project No.: 2022-12

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.
*With advance notice and confirmation by the laboratory.
**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM CERTIFICATION MANUAL - ITEM No. 198.1, Revision Date 5/6/16)

*Asphalt Shingles, Caulking, Ceiling Tiles with Cellulose, Duct Wrap, Glazing, Mastic, Paint Chips, Resilient Floor Tiles, Rubberized Asbestos Gaskets, Siding Shingles, Vinyl Asbestos Tile, NOB materials (other that SM-V) with <10% vermiculite, Any material (Friable or NOB other than SM-V) with >10% vermiculite.

Statistically derived uncertainty with any measure should be taken into consideration when reviewing and interpreting all reported data and results. A more comprehensive listing of accuracy, precision, and uncertainty as it impacts this method is available upon request.

Appendix A.4 – Laboratory Accreditations

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 101165-0

International Asbestos Testing Laboratories

Mt. Laurel, NJ

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2022-07-01 through 2023-06-30

Effective Dates

For the National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

International Asbestos Testing Laboratories
9000 Commerce Parkway
Suite B
Mt. Laurel, NJ 08054
Mr. Frank E. Ehrenfeld III
Phone: 856-231-9449 Fax: 856-231-9818
Email: frankehrenfeld@iatl.com
http://www.iatl.com

ASBESTOS FIBER ANALYSIS — NVLAP LAB CODE 101165-0

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code	*Description*
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

Appendix A.5 – Asbestos Inspector Certifications

1310 E 66th Avenue, Suite 2- Anchorage, AK 99518 - 907.332.0456

Certificate of Training

This is to certify that

Christopher T Ottosen

Has Attended and Successfully Completed

Building Inspector Refresher
4 Hour Course

This course is fully accredited by the Alabama Department of Environmental Management (ADEM) in compliance with TSCA Title II.

Certificate Number: TBI4-123-17473

Expiration Date: 1/13/2024

Alan Caldwell *Training Division Manager*	1/13/2023 *Exam Date:*	1/13/2023 *Course Date:*

Appendix B - Lead

Appendix B.1 – Lead-Containing Materials Matrix

HERC1, Homer Education and Recreation Complex 1, 450 Sterling Highway, Homer, Alaska 99603			
MATERIAL DESCRIPTION	**EPA CATEGORY**	**ASSUMED/ CONFIRMED**	**NOTES**
Lead-containing paints	Unclassified*	C	
Paints classified as “lead-based” paint by the EPA	Unclassified*	C	
Metallic lead in solder on copper piping	RCRA exempt scrap metal*	A	
Metallic poured lead sealants in bell and spigot pipe connections	RCRA exempt scrap metal*	A	
Metallic lead in VTR flashings	RCRA exempt scrap metal*	A	
Metallic lead inside of roof drain bowls at clamping rings	RCRA exempt scrap metal*	A	
Metallic sheet lead	RCRA exempt scrap metal*	A	
Lead-acid batteries	Universal waste battery	A	Lead-acid batteries may be classified as a Universal Waste in accordance with 40 CFR 273
Glazings of ceramic/porcelain wall tiles	Unclassified*	A	
Glazings of ceramic/porcelain plumbing fixtures	Unclassified*	A	
“Formica” laminate panels on cabinetry and countertops	Unclassified*	A	
Plastics	Unclassified*	A	

Notes to Lead-Containing Materials Matrix:

- Materials labeled with a "C" designation are materials which have been confirmed to contain lead.
- Materials labeled with an "A" designation are materials which are assumed to contain lead.
- Materials labeled with a "n/a" designation are materials which were not observed and not believed to be present.
- Materials labeled with a "None*" designation are materials which were not found but may be present.
- Materials labeled with as “Unclassified*" mean the material requires additional testing to characterize the materials as non-hazardous waste for lead or a RCRA hazardous waste for exhibiting the toxicity characteristic for lead.

Appendix B.2 – Table of XRF Readings (None)

Appendix B.3 – Lead Inspector Certifications

United States Environmental Protection Agency

This is to certify that

Christopher T Ottosen

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires September 29, 2024

LBP-R-I157245-2
Certification #

February 10, 2021
Issued On

Adrienne Priselac, Manager, Toxics Office
Land Division

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

February 04, 2022

Christopher Ottosen
HTRW, LLC
11471 Business Blvd
Eagle River, AK 99577

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Dear Christopher Ottosen:

Thank you for applying to the U.S. Environmental Protection Agency (EPA) for certification to conduct Lead-based Paint Activities in target housing and child-occupied facilities. I am pleased to inform you that, pursuant to 40 CFR Part 745, Subpart L, your lead-based paint activities firm is certified. Your certificate is enclosed.

This certification **expires on February 15, 2025 and is valid in All EPA Administered States, Tribes, and Territories**. However, if a State in which you are certified obtains program authorization during the term of this certification, the scope of your certification will be diminished to exclude the affected area.

Your EPA firm certification is subject to the following restrictions:

1) Individual states and Indian tribes, whether authorized or not, are not required to accept EPA certification and may accept or reject it under its own authority. Please be aware that your EPA certification does not relieve you of any obligations you may have to any State or Indian tribe regarding lead-based paint activities.

2) EPA certification is specific and limited as described above. If you wish to obtain certification in other lead-based paint disciplines, you must apply separately.

3) In advertising the EPA certification, firms must indicate clearly that the firm is certified only for purposes of Section 402 of TSCA. Failure to accurately state EPA certification conditions could result in EPA suspending or withdrawing certification.

4) EPA may conduct audits and/or inspections to ensure continued compliance with regulatory standards, and may revoke or suspend its certification if subsequent alterations or deviations result with the firm no longer meeting the standards found at 40 CFR Part 745, Subpart L.

If you have questions about the lead-based paint activities rule or need assistance, please contact the Regional Lead Coordinator, Kim Farnham, of the EPA Region 10 staff at 206-553-6697. If you have any questions about your firm certification, please contact the National Lead Information Center at 1-800-424-LEAD and refer to **Application ID number A786633**. Congratulations, and thank you for your interest in being a certified abatement firm.

Sincerely,

Michelle Price

Michelle Price, Chief
Lead, Heavy Metals, and Inorganics Branch

Enclosures

United States Environmental Protection Agency

This is to certify that

HTRW, LLC

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires February 15, 2025

LBP-F232766-1

Certification #

February 01, 2022

Issued On

Michelle Price, Chief

Lead, Heavy Metals, and Inorganics Branch

Appendix C – Other Common Hazardous Building Materials

Appendix C.1 – Other Common Hazardous Building Materials Matrix

HERC1, Homer Education and Recreation Complex 1, 450 Sterling Highway, Homer, Alaska 99603			
MATERIAL DESCRIPTION	**EPA CATEGORY**	**ASSUMED/ CONFIRMED**	**NOTES**
Mercury-containing lamps, fluorescent	Universal Waste	C	
Mercury-containing lamps, high intensity discharge	Universal Waste	C	
Mercury-containing equipment, thermostats	Universal Waste	C	Previously confirmed by 2020 EMI report
Mercury-containing equipment, HVAC system control switches	Universal Waste	A	
Poured polyurethane flooring classified as a hazardous waste for mercury	RCRA Hazardous Waste	None	
PCB-containing light ballasts	TSCA PCB Bulk Product Waste and/or TSCA PCB Equipment	A	
Contamination from leaking PCB-containing light ballasts	TSCA PCB Contaminated Electrical Equipment	A	
PCB-containing sealants	Alaska DEC Regulated PCB Waste	C	
PCB-containing 12” x 12” glued-on ceiling tile, main pattern	Alaska DEC Regulated PCB Waste	C	This material may contain PCBs due to sorption
PCB-containing dark brown mastic for glued-on ceiling tiles	Alaska DEC Regulated PCB Waste	C	
PCB-containing white paint used on interior window components	Alaska DEC Regulated PCB Waste	C	
PCB-containing heavy weight tar impregnated felt under wooden MPR floor	Alaska DEC Regulated PCB Waste	C	
PCB-containing translucent yellow varnish on birch wall panels	Alaska DEC Regulated PCB Waste	C	
PCB-containing beige paint on exterior concrete walls	Alaska DEC Regulated PCB Waste	C	
PCB-containing green paint on exterior window trim, sills, and casings	Alaska DEC Regulated PCB Waste	C	
PCB-containing beige paint in janitor closet outside of Men 119	Alaska DEC Regulated PCB Waste	C	

HERC1, Homer Education and Recreation Complex 1, 450 Sterling Highway, Homer, Alaska 99603			
MATERIAL DESCRIPTION	**EPA CATEGORY**	**ASSUMED/ CONFIRMED**	**NOTES**
PCB-containing white paint on interior "Marlite" wall panels	Alaska DEC Regulated PCB Waste	C	
PCB-containing equipment	TSCA PCB waste, category varies	A	"Equipment" as used here is intended to include all other PCB waste types which are not included above and is not intended to be limited to the definition of "PCB Equipment" in 40 CFR 761.3
Ozone Depleting Substances (ODS), consumer-grade refrigerators	CAA Class I or Class II Controlled Substance	A	
Ozone Depleting Substances (ODS), consumer-grade freezers	CAA Class I or Class II Controlled Substance	A	
Ozone Depleting Substances (ODS), consumer-grade air conditioning equipment	CAA Class I or Class II Controlled Substance	A	
Ozone Depleting Substances (ODS), commercial-grade refrigerators	CAA Class I or Class II Controlled Substance	A	
Ozone Depleting Substances (ODS), commercial-grade freezers	CAA Class I or Class II Controlled Substance	A	
Ozone Depleting Substances (ODS), commercial-grade air conditioning systems	CAA Class I or Class II Controlled Substance	C	
Ozone Depleting Substances (ODS), drinking fountains	CAA Class I or Class II Controlled Substance	A	
Ozone Depleting Substances (ODS), Halons	CAA Class I or Class II Controlled Substance	None*	
Ozone Depleting Substances (ODS), Other	CAA Class I or Class II Controlled Substance	C	
Radioactive materials in self-illuminating exit signs	NRC Generally Licensed Waste	None*	
Radioactive materials in smoke detectors	NRC Generally Licensed Waste	None*	
Heat transfer fluids, glycol-based	Unclassified potentially hazardous waste	None*	
Heat transfer fluids, water-based	Unclassified potentially hazardous waste	None*	

HERC1, Homer Education and Recreation Complex 1, 450 Sterling Highway, Homer, Alaska 99603			
MATERIAL DESCRIPTION	**EPA CATEGORY**	**ASSUMED/ CONFIRMED**	**NOTES**
Heat transfer fluids, unknown system contents	Unclassified potentially hazardous waste	C	

Notes to Other Common Hazardous Building Materials Matrix:

- Materials labeled with a "C" designation are materials which have been confirmed to be present.
- Materials labeled with an "A" designation are materials which are assumed to be present.
- Materials labeled with a "n/a" designation are materials which were not observed and not believed to be present.
- Materials labeled with a "None*" designation are materials which were not found but may be present.

Appendix C.2 – Table of PCB Samples

HERC1, Homer Education and Recreation Complex 1, 450 Sterling Highway, Homer, Alaska 99603							
SAMPLE NUMBER	**SAMPLE DESCRIPTION**	**POSSIBLE CONTAMINANTS**	**SAMPLE LOCATION**	**PHOTO REFERENCE**	**DATE**	**TIME**	**SAMPLE RESULTS**
HERC1-0523-P01	Hard light grey window glazing compound on exterior of operable windows	Surface paint scraped off of glazing compound, but some small wood splinters from substrate are present in sample	West exterior of Room 105 on operable window	263, 264	05/05/2023	11:37	<0.79 mg/Kg
HERC1-0523-P02	Hard white caulking used between exterior window frames and wall openings	Surface paint scraped off of glazing compound, but some dirt/staining is present in sample	West exterior of Room 105 between wood window sill and metal drip edge/flashing	261, 262	05/05/2023	11:22	<0.49 mg/Kg
HERC1-0523-P03	Off-white caulk at seams of corrugated metal siding	Some dirt from the environment is embedded in sample	East exterior of Room 110 at seam of corrugated metal siding	255, 256	05/05/2023	10:49	<0.47 mg/Kg
HERC1-0523-P04	Off-white caulk at seams of exterior metal panels	Some dirt from the environment is embedded in sample	East exterior of MPR at seam of corrugated metal siding, duplicate sample P30 collected from same location	269, 270	05/05/2023	12:10	<0.48 mg/Kg
HERC1-0523-P05	Black flooring mastic	Some concrete dust from substrate may be present in sample	East side of Storage 120	295, 296	05/05/2023	16:10	<0.48 mg/Kg
HERC1-0523-P06	Dark brown cove base mastic	Small wood splinters from substrate and small pieces of black rubber cove base are present in sample	North wall of Room 108, duplicate sample P31 collected from same location	317, 318	05/06/2023	11:44	<0.49 mg/Kg
HERC1-0523-P07	**12” x 12” glued-on ceiling tile, main pattern**	**None noted**	**In corridor outside of Room 110**	**308, 309**	**05/05/2023**	**17:19**	**0.54 mg/Kg**

HERC1, Homer Education and Recreation Complex 1, 450 Sterling Highway, Homer, Alaska 99603							
SAMPLE NUMBER	**SAMPLE DESCRIPTION**	**POSSIBLE CONTAMINANTS**	**SAMPLE LOCATION**	**PHOTO REFERENCE**	**DATE**	**TIME**	**SAMPLE RESULTS**
HERC1-0523-P08	**Dark brown mastic for glued-on ceiling tiles**	**Remnants from the former glued-on ceiling tile and paper from the gypsum board substrate could not be separated from sample**	**In corridor outside of Room 110**	**306, 307**	**05/05/2023**	**17:17**	**1.7 mg/Kg**
HERC1-0523-P09	Yellow sheet vinyl with black grit pattern	The dark brown mastic for the sheet vinyl could not be separated from the sample	Northeast side of Room 110 at tear in seam of sheet vinyl	310, 311	05/05/2023	17:34	<0.49 mg/Kg
HERC1-0523-P10	**White paint used on interior window components**	**Some wood shavings and splinters from the substrate are in the sample**	**From wood window mullion and sill on east side of Room 110**	**312, 313**	**05/05/2023**	**17:49**	**1.1 mg/Kg**
HERC1-0523-P11	Hard off-white window glazing compound on interior side of exterior windows	Paint was scraped off of compound and no other contaminants were apparent	From wood-framed window on east side of Room 110, duplicate sample P32 collected from same location	314, 315	05/05/2023	17:52	<0.49 mg/Kg
HERC1-0523-P12	Black 4” cove base	None noted	North wall of Room 108	317, 320	05/06/2023	11:58	<0.47 mg/Kg
HERC1-0523-P13	**Heavy weight tar impregnated felt under wooden MPR floor**	**Some dust and debris is present in sample**	**South side of MPR under wood floor**	**327, 328, 329**	**05/06/2023**	**13:23**	**1.3 mg/Kg**
HERC1-0523-P14	**Translucent yellow varnish on birch wall panels**	**Some wood shavings and splinters from the substrate are in the sample**	**West wall of Room 108 under windows**	**321, 322, 323**	**05/06/2023**	**12:16**	**4.9 mg/Kg**
HERC1-0523-P15	Reinforced “Kraft” paper with black tar under the heavy weight tar impregnated felt under wooden MPR floor	Some dust and debris is present in sample	South side of MPR under wood floor	327, 330, 331, 332	05/06/2023	13:40	<0.78 mg/Kg

HERC1, Homer Education and Recreation Complex 1, 450 Sterling Highway, Homer, Alaska 99603							
SAMPLE NUMBER	**SAMPLE DESCRIPTION**	**POSSIBLE CONTAMINANTS**	**SAMPLE LOCATION**	**PHOTO REFERENCE**	**DATE**	**TIME**	**SAMPLE RESULTS**
HERC1-0523-P16	Beige paint on bottom of exposed roof deck at exterior perimeters	Some wood splinters from the substrate and dirt are in the sample	From roof eve/soffit on south exterior of former shop "wing" on west side of building	285, 286	05/05/2023	15:05	<0.42 mg/Kg
HERC1-0523-P17	**Beige paint on exterior concrete walls**	**Some concrete dust from substrate is present in sample**	**From concrete "wing wall" at southwest exterior of former shop "wing" on west side of building**	**291, 292**	**05/05/2023**	**15:32**	**0.90 mg/Kg**
HERC1-0523-P18	Beige paint on corrugated metal siding	None noted	East exterior of MPR at seam of corrugated metal siding, duplicate sample P33 collected from same location, duplicate sample P33 collected from same location	273, 274	05/05/2023	12:25	<0.49 mg/Kg
HERC1-0523-P19	Beige paint on corrugated metal siding	None noted	From south exterior of former shop "wing" on west side of building	287, 288	05/05/2023	15:11	<0.48 mg/Kg
HERC1-0523-P20	Beige paint on exterior window trim, sills, and casings of MPR	Some dirt and moss is present in sample	East exterior of MPR at northern-most window from the window sill, trim, and header	281, 282	05/05/2023	14:38	<0.49 mg/Kg
HERC1-0523-P21	**Green paint on exterior window trim, sills, and casings**	**Some wood splinters from the substrate and dirt are in the sample**	**From south exterior of former shop "wing" on west side of building**	**289, 290**	**05/05/2023**	**15:20**	**34.1 mg/Kg**

HERC1, Homer Education and Recreation Complex 1, 450 Sterling Highway, Homer, Alaska 99603							
SAMPLE NUMBER	**SAMPLE DESCRIPTION**	**POSSIBLE CONTAMINANTS**	**SAMPLE LOCATION**	**PHOTO REFERENCE**	**DATE**	**TIME**	**SAMPLE RESULTS**
HERC1-0523-P22	Grey paint on exterior window trim, sills, and casings	Some wood splinters from the substrate and dirt are in the sample	West exterior of Room 105 from wood window casing	259, 260	05/05/2023	11:10	<0.49 mg/Kg
HERC1-0523-P23	**Beige paint in janitor closet outside of Men 119**	**Some wood shavings and splinters from the substrate are in the sample**	**From the wood column near the middle of the janitor closet outside of Men 119**	**302, 303**	**05/05/2023**	**16:58**	**12.3 mg/Kg**
HERC1-0523-P24	**White paint on interior "Marlite" wall panels**	**None noted**	**In corridor at entry to Room 105, duplicate sample P34 collected from same location**	**324, 325**	**05/06/2023**	**12:41**	**0.90 mg/Kg**
HERC1-0523-P25	White paint on exterior foundation walls	Some dirt is present in sample	East exterior of Room 110 on foundation wall	253, 254	05/05/2023	10:29	<0.48 mg/Kg
HERC1-0523-P26	White paint on corrugated metal siding	None noted	West exterior of Room 105	257, 258	05/05/2023	11:01	<0.47 mg/Kg
HERC1-0523-P27	White paint on corrugated metal siding	None noted	East exterior of office at southeast corner of the upper level	267, 268	05/05/2023	12:07	<0.48 mg/Kg
HERC1-0523-P28	White paint on exterior window infills and trim pieces	Some wood splinters from the substrate and dirt are in the sample	West exterior of Room 105 at window infill panels	293, 294	05/05/2023	15:45	<0.49 mg/Kg
HERC1-0523-P29	Wax/varnish buildup from wood MPR floor	None noted	South side of MPR at gap between wood MPR floor and wood base trim	333, 334	05/06/2023	14:02	<0.93 mg/Kg
HERC1-0523-P30	Duplicate of sample P04, off-white caulk at seams of exterior metal panels	Some dirt from the environment is embedded in sample	East exterior of MPR at seam of corrugated metal siding	269, 271	05/05/2023	12:20	<0.61 mg/Kg

HERC1, Homer Education and Recreation Complex 1, 450 Sterling Highway, Homer, Alaska 99603							
SAMPLE NUMBER	**SAMPLE DESCRIPTION**	**POSSIBLE CONTAMINANTS**	**SAMPLE LOCATION**	**PHOTO REFERENCE**	**DATE**	**TIME**	**SAMPLE RESULTS**
HERC1-0523-P31	Duplicate of sample P06, dark brown cove base mastic	Small wood splinters from substrate and small pieces of black rubber cove base are present in sample	North wall of Room 108	317, 319	05/06/2023	11:54	<0.49 mg/Kg
HERC1-0523-P32	Duplicate of sample P11, hard off-white window glazing compound on interior side of exterior windows	Paint was scraped off of compound and no other contaminants were apparent	From wood-framed window on east side of Room 110	314, 316	05/05/2023	17:53	<0.43 mg/Kg
HERC1-0523-P33	Duplicate of sample P18, beige paint on corrugated metal siding	None noted	East exterior of MPR at seam of corrugated metal siding	275, 276	05/05/2023	14:01	<0.48 mg/Kg
HERC1-0523-P34	**Duplicate of sample P24, white paint on interior "Marlite" wall panels**	**None noted**	**In corridor at entry to Room 105**	**324, 326**	**05/06/2023**	**12:47**	**1.0 mg/Kg**
HERC1-0523-P35	Equipment blank #1	N/A	N/A	N/A	05/05/2023	10:33	Not Analyzed
HERC1-0523-P36	Equipment blank #2	N/A	N/A	N/A	05/05/2023	14:46	Not Analyzed
HERC1-0523-P37	Pair of unused clean rubber gloves used during sampling	None noted	N/A	N/A	05/06/2023	13:00	Not Analyzed
HERC1-0523-P38	Equipment blank #4	N/A	N/A	N/A	05/06/2023	14:22	Not Analyzed
HERC1-0523-P39	Field blank #1	N/A	N/A	N/A	05/05/2023	10:35	Not Analyzed
HERC1-0523-P40	Tool cleaning wipe sample #1	N/A	N/A	N/A	05/05/2023	10:31	Not Analyzed
HERC1-0523-P41	Field blank #2	N/A	N/A	N/A	05/06/2023	12:35	Not Analyzed

Appendix C.3 – PCB Final Laboratory Certificate of Analysis & Chain of Custody

Environmental Chemistry Chain of Custody

EMSL ANALYTICAL, INC.

EMSL Order Number / Lab Use Only: 162350110

EMSL Analytical, Inc.
6340 Castleplace Dr.
Indianapolis, IN 46250
PHONE: (317) 803-2997
EMAIL: indianapolislab@EMSL.com

Customer Information		Billing Information	
Customer ID:	HTRW75	Billing ID:	
Company Name:	HTRW, LLC	Company Name:	
Contact Name:	Chris Ottosen	Billing Contact:	
Street Address:	11471 Business Blvd., #773442	Street Address:	
City, State, Zip:	Eagle River, Alaska 99577 Country: USA	City, State, Zip:	Country:
Phone:	907-917-3801	Phone:	
Email(s) for Report:	cottosen@htrw-llc.com	Email(s) for Invoice:	

Project Name/No: City of Homer, HERC 2 Demolition + HERC1 Screening — Purchase Order:

EMSL LIMS Project ID: (If applicable, EMSL will provide) — US State where samples collected: Alaska — State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)

Samples for Compliance? ☑ Yes ☐ No — If Yes, for NPDES? ☐ Yes ☑ No — Other (Specify) Alaska DEC 18 AAC 60, 75 — PWS ID: — State Reporting Required? ☐ Yes ☑ No

Samples Collected by (Check One): ☐ EMSL ☑ CLIENT — Samples Received Chilled? ☐ Yes ☐ No — Sample(s) Temperature Upon Receipt (LAB ONLY)

Sampled By Name: Chris Ottosen — Sampled By Signature: [signature] — No. of Samples in Shipment: 41

Turn-Around-Time (TAT) — Standard Turn-Around-Time: ☑ 2 Weeks — The following TAT's are subject to Lab approval. Call lab to confirm TAT before submittal: ☐ 1 Week ☐ 4 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix W=Water S=Soil A=Air SL=Sludge O=Other	Preservative 1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other *Describe below in Special Instructions*	Test 1: --SEE ATTACHED--	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments
--SEE ATTACHED--														--SEE ATTACHED--
--SEE ATTACHED--														--SEE ATTACHED--
--SEE ATTACHED--														--SEE ATTACHED--
--SEE ATTACHED--														--SEE ATTACHED--

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

See attached client chain of custody sample descriptions

Reporting Requirements: ☐ Results Only ☑ Results and QC ☐ Reduced Deliverables ☐ Hzresults EDD ☐ Excel ☐ Other (Describe Above)

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time:	Received by: M. Worley	Date/Time: 5/10/23 9:45am 53.6°F
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - COC-07 Chemistry R11 02/26/2021

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

HTRW, LLC

11471 Business Blvd., #773442
Eagle River, Alaska 99577
(907)-917-3801

CHAIN OF CUSTODY

Project Number	*2022-12*					**Selected Laboratory**	*EMSL Analytical, Inc., Indianapolis, IN (LAB 16)*
Project Name	*City of Homer, Homer Education and Recreation Complex (HERC) 2 Demolition*					**Shipping Method**	*Fed Ex 7720 8186 9224 Mstr# 7720 8186 9809*
Address/Location	*HERC 1 Building 450 Sterling Highway, Homer, Alaska*					**Date and Time**	*05/09/2023 10:30 am*
Client	*City of Homer*					**Samples Received By**	
Inspector/Collected By	*Christopher T. Ottosen*					**Date and Time**	
EPA B.I.# and State	*TBI4-123-17473/Alaska*					**Analyst Signature(s)**	
Collection Date	*05/05-06/2023*	**Quantity**	*41*	**Turnaround**	*2-Week*		
Requested Analysis (all samples)	*Polychlorinated Biphenyls, EPA Method 3540C/8082A*						
Preservatives (all samples)	*Ice packs*						
Special Notes	*E-mail results to cottosen@htrw-llc.com. Provide a scanned color copy of this chain of custody or return the original hard copies. Refer to attached standard COC from the selected analytical laboratory for additional information. All Samples collected are "grab" samples, no composite samples were collected. Some samples have been confirmed to contain asbestos, lead, or both. All samples may contain dust and/or debris from asbestos, lead, or mercury, and may also have general dust/dirt.*						

SAMPLE NUMBER	SAMPLE DESCRIPTION	POSSIBLE CONTAMINANTS	SAMPLE LOCATION	WEIGHT (in grams)	MATRIX	PHOTO REFERENCE	DATE	TIME	LAB SAMPLE ID
HERC1-0523-P01	Hard light grey window glazing compound on exterior of operable windows	Surface paint scraped off of glazing compound, but some small wood splinters from substrate are present in sample	West exterior of Room 105 on operable window	11.2	Caulk	263, 264	05/05/2023	11:37	
HERC1-0523-P02	Hard white caulking used between exterior window frames and wall openings	Surface paint scraped off of glazing compound, but some dirt/staining is present in sample	West exterior of Room 105 between wood window sill and metal drip edge/flashing	8.5	Caulk	261, 262	05/05/2023	11:22	
HERC1-0523-P03	Off-white caulk at seams of corrugated metal siding	Some dirt from the environment is embedded in sample	East exterior of Room 110 at seam of corrugated metal siding	9.2	Caulk	255, 256	05/05/2023	10:49	
HERC1-0523-P04	Off-white caulk at seams of exterior metal panels	Some dirt from the environment is embedded in sample	East exterior of MPR at seam of corrugated metal siding, duplicate sample P30 collected from same location	9.7	Caulk	269, 270	05/05/2023	12:10	
HERC1-0523-P05	Black flooring mastic	Some concrete dust from substrate may be present in sample	East side of Storage 120	5.1	Mastic	295, 296	05/05/2023	16:10	

11471 Business Blvd., #773442
Eagle River, Alaska 99577
(907)-917-3801

SAMPLE NUMBER	SAMPLE DESCRIPTION	POSSIBLE CONTAMINANTS	SAMPLE LOCATION	WEIGHT (in grams)	MATRIX	PHOTO REFERENCE	DATE	TIME	LAB SAMPLE ID
HERC1-0523-P06	Dark brown cove base mastic	Small wood splinters from substrate and small pieces of black rubber cove base are present in sample	North wall of Room 108, duplicate sample P31 collected from same location	8.4	Mastic	317, 318	05/06/2023	11:44	
HERC1-0523-P07	12" x 12" glued-on ceiling tile, main pattern	None noted	In corridor outside of Room 110	11.2	Other	308, 309	05/05/2023	17:19	
HERC1-0523-P08	Dark brown mastic for glued-on ceiling tiles	Remnants from the former glued-on ceiling tile and paper from the gypsum board substrate could not be separated from sample	In corridor outside of Room 110	8.2	Mastic	306, 307	05/05/2023	17:17	
HERC1-0523-P09	Yellow sheet vinyl with black grit pattern	The dark brown mastic for the sheet vinyl could not be separated from the sample	Northeast side of Room 110 at tear in seam of sheet vinyl	9.5	Other	310, 311	05/05/2023	17:34	
HERC1-0523-P10	White paint used on interior window components	Some wood shavings and splinters from the substrate are in the sample	From wood window mullion and sill on east side of Room 110	8.5	Paint	312, 313	05/05/2023	17:49	
HERC1-0523-P11	Hard off-white window glazing compound on interior side of exterior windows	Paint was scraped off of compound and no other contaminants were apparent	From wood-framed window on east side of Room 110, duplicate sample P32 collected from same location	8.4	Caulk	314, 315	05/05/2023	17:52	
HERC1-0523-P12	Black 4" cove base	None noted	North wall of Room 108	16.7	Other	317, 320	05/06/2023	11:58	
HERC1-0523-P13	Heavy weight tar impregnated felt under wooden MPR floor	Some dust and debris is present in sample	South side of MPR under wood floor	10.0	Other	327, 328, 329	05/06/2023	13:23	
HERC1-0523-P14	Translucent yellow varnish on birch wall panels	Some wood shavings and splinters from the substrate are in the sample	West wall of Room 108 under windows	8.6	Paint	321, 322, 323	05/06/2023	12:16	
HERC1-0523-P15	Reinforced "Kraft" paper with black tar under the heavy weight tar impregnated felt under wooden MPR floor	Some dust and debris is present in sample	South side of MPR under wood floor	5.3	Other	327, 330, 331, 332	05/06/2023	13:40	
HERC1-0523-P16	Beige paint on bottom of exposed roof deck at exterior perimeters	Some wood splinters from the substrate and dirt are in the sample	From roof eve/soffit on south exterior of former shop "wing" on west side of building	7.0	Paint	285, 286	05/05/2023	15:05	
HERC1-0523-P17	Beige paint on exterior concrete walls	Some concrete dust from substrate is present in sample	From concrete "wing wall" at southwest exterior of former shop "wing" on west side of building	9.7	Paint	291, 292	05/05/2023	15:32	

11471 Business Blvd., #773442
Eagle River, Alaska 99577
(907)-917-3801

SAMPLE NUMBER	SAMPLE DESCRIPTION	POSSIBLE CONTAMINANTS	SAMPLE LOCATION	WEIGHT (in grams)	MATRIX	PHOTO REFERENCE	DATE	TIME	LAB SAMPLE ID
HERC1-0523-P18	Beige paint on corrugated metal siding	None noted	East exterior of MPR at seam of corrugated metal siding, duplicate sample P33 collected from same location, duplicate sample P33 collected from same location	8.2	Paint	273, 274	05/05/2023	12:25	
HERC1-0523-P19	Beige paint on corrugated metal siding	None noted	From south exterior of former shop "wing" on west side of building	9.6	Paint	287, 288	05/05/2023	15:11	
HERC1-0523-P20	Beige paint on exterior window trim, sills, and casings of MPR	Some dirt and moss is present in sample	East exterior of MPR at northern-most window from the window sill, trim, and header	9.2	Paint	281, 282	05/05/2023	14:38	
HERC1-0523-P21	Green paint on exterior window trim, sills, and casings	Some wood splinters from the substrate and dirt are in the sample	From south exterior of former shop "wing" on west side of building	7.8	Paint	289, 290	05/05/2023	15:20	
HERC1-0523-P22	Grey paint on exterior window trim, sills, and casings	Some wood splinters from the substrate and dirt are in the sample	West exterior of Room 105 from wood window casing	8.7	Paint	259, 260	05/05/2023	11:10	
HERC1-0523-P23	Beige paint in janitor closet outside of Men 119	Some wood shavings and splinters from the substrate are in the sample	From the wood column near the middle of the janitor closet outside of Men 119	8.1	Paint	302, 303	05/05/2023	16:58	
HERC1-0523-P24	White paint on interior "Marlite" wall panels	None noted	In corridor at entry to Room 105, duplicate sample P34 collected from same location	8.2	Paint	324, 325	05/06/2023	12:41	
HERC1-0523-P25	White paint on exterior foundation walls	Some dirt is present in sample	East exterior of Room 110 on foundation wall	8.0	Paint	253, 254	05/05/2023	10:29	
HERC1-0523-P26	White paint on corrugated metal siding	None noted	West exterior of Room 105	9.4	Paint	257, 258	05/05/2023	11:01	
HERC1-0523-P27	White paint on corrugated metal siding	None noted	East exterior of office at southeast corner of the upper level	8.2	Paint	267, 268	05/05/2023	12:07	
HERC1-0523-P28	White paint on exterior window infills and trim pieces	Some wood splinters from the substrate and dirt are in the sample	West exterior of Room 105 at window infill panels	8.0	Paint	293, 294	05/05/2023	15:45	
HERC1-0523-P29	Wax/varnish buildup from wood MPR floor	None noted	South side of MPR at gap between wood MPR floor and wood base trim	6.1	Paint	333, 334	05/06/2023	14:02	
HERC1-0523-P30	Duplicate of sample P04, off-white caulk at seams of exterior metal panels	Some dirt from the environment is embedded in sample	East exterior of MPR at seam of corrugated metal siding	8.3	Caulk	269, 271	05/05/2023	12:20	
HERC1-0523-P31	Duplicate of sample P06, dark brown cove base mastic	Small wood splinters from substrate and small pieces of black rubber cove base are present in sample	North wall of Room 108	8.5	Mastic	317, 319	05/06/2023	11:54	

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Eagle River, Alaska 99577
(907)-917-3801

SAMPLE NUMBER	SAMPLE DESCRIPTION	POSSIBLE CONTAMINANTS	SAMPLE LOCATION	WEIGHT (in grams)	MATRIX	PHOTO REFERENCE	DATE	TIME	LAB SAMPLE ID
HERC1-0523-P32	Duplicate of sample P11, hard off-white window glazing compound on interior side of exterior windows	Paint was scraped off of compound and no other contaminants were apparent	From wood-framed window on east side of Room 110	12.1	Caulk	314, 316	05/05/2023	17:53	
HERC1-0523-P33	Duplicate of sample P18, beige paint on corrugated metal siding	None noted	East exterior of MPR at seam of corrugated metal siding	10.9	Paint	275, 276	05/05/2023	14:01	
HERC1-0523-P34	Duplicate of sample P24, white paint on interior "Marlite" wall panels	None noted	In corridor at entry to Room 105	8.6	Paint	324, 326	05/06/2023	12:47	
HERC1-0523-P35	Equipment blank #1	N/A	N/A	N/A	Wipe	N/A	05/05/2023	10:33	
HERC1-0523-P36	Equipment blank #2	N/A	N/A	N/A	Wipe	N/A	05/05/2023	14:46	
HERC1-0523-P37	Pair of unused clean rubber gloves used during sampling	None noted	N/A	Not recorded	Other	N/A	05/06/2023	13:00	
HERC1-0523-P38	Equipment blank #4	N/A	N/A	N/A	Wipe	N/A	05/06/2023	14:22	
HERC1-0523-P39	Field blank #1	N/A	N/A	N/A	Wipe	N/A	05/05/2023	10:35	
HERC1-0523-P40	Tool cleaning wipe sample #1	N/A	N/A	N/A	Wipe	N/A	05/05/2023	10:31	
HERC1-0523-P41	Field blank #2	N/A	N/A	N/A	Wipe	N/A	05/06/2023	12:35	
--END--									

EMSL Analyical, Inc.
6340 Castleplace Drive, Indianapolis, IN, 46250
Telephone: 317.803.2997 Fax:317.803.3047

EMSL Order ID: 162350110
LIMS Reference ID: CB50110
EMSL Customer ID: HTRW75

SAMPLE RECEIPT CONFIRMATION

Project: PCB
Customer PO:
Project Number: CITY OF HOMER, HERC 2 DEMOLITION + HER
Project Manager: Sara Dille

Printed: 05/10/2023 1:30 pm

Dear Client

EMSL Analytical, Inc. is currently upgrading to a new database system and during the transition we ask you review the receipt confirmation carefully to ensure you do not see any errors in the login. The format of the confirmations is different so if you see any display issues, please let us know.

Report To:
HTRW, LLC [HTRW75]
Chris Ottosen
11471 Business Blvd., 773442
Eagle River, AK 99577
Phone: (907) 917-3801

Invoice To:
HTRW, LLC [HTRW75]
Chris Ottosen
11471 Business Blvd., 773442
Eagle River, AK 99577
Phone: (907) 917-3801

Date Logged In: 05/09/2023 01:44 PM
Date Received: 05/10/2023 09:45 AM
Date Due: 05/24/2023 06:00 PM

Logged In By: Molly Worley
Received By: Molly Worley

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P1	162350110	CB50110-01

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P2	162350110	CB50110-02

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P3	162350110	CB50110-03

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P4	162350110	CB50110-04

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P5	162350110	CB50110-05

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

EMSL Analyical, Inc.
6340 Castleplace Drive, Indianapolis, IN, 46250
Telephone: 317.803.2997 Fax:317.803.3047

EMSL Order ID: 162350110
LIMS Reference ID: CB50110
EMSL Customer ID: HTRW75

SAMPLE RECEIPT CONFIRMATION

Project: PCB **Customer PO:**
Project Number: CITY OF HOMER, HERC 2 DEMOLITION + HER
Project Manager: Sara Dille

Printed: 05/10/2023 1:30 pm

(Continued)

Dear Client

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Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P6	162350110	CB50110-06

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P7	162350110	CB50110-07

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P8	162350110	CB50110-08

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P9	162350110	CB50110-09

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P10	162350110	CB50110-10

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P11	162350110	CB50110-11

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P12	162350110	CB50110-12

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

EMSL Analyical, Inc.
6340 Castleplace Drive, Indianapolis, IN, 46250
Telephone: 317.803.2997 Fax:317.803.3047

EMSL Order ID: 162350110
LIMS Reference ID: CB50110
EMSL Customer ID: HTRW75

SAMPLE RECEIPT CONFIRMATION

Project: PCB
Customer PO:
Project Number: CITY OF HOMER, HERC 2 DEMOLITION + HER
Project Manager: Sara Dille

Printed: 05/10/2023 1:30 pm

(Continued)

Dear Client

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Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P13	162350110	CB50110-13

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P14	162350110	CB50110-14

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P15	162350110	CB50110-15

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P16	162350110	CB50110-16

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P17	162350110	CB50110-17

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P18	162350110	CB50110-18

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P19	162350110	CB50110-19

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

EMSL Analyical, Inc.
6340 Castleplace Drive, Indianapolis, IN, 46250
Telephone: 317.803.2997 Fax:317.803.3047

EMSL Order ID: 162350110
LIMS Reference ID: CB50110
EMSL Customer ID: HTRW75

SAMPLE RECEIPT CONFIRMATION

Project: PCB **Customer PO:**
Project Number: CITY OF HOMER, HERC 2 DEMOLITION + HER
Project Manager: Sara Dille

Printed: 05/10/2023 1:30 pm

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Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P20	162350110	CB50110-20

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P21	162350110	CB50110-21

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P22	162350110	CB50110-22

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P23	162350110	CB50110-23

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P24	162350110	CB50110-24

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P25	162350110	CB50110-25

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P26	162350110	CB50110-26

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

EMSL Analyical, Inc.
6340 Castleplace Drive, Indianapolis, IN, 46250
Telephone: 317.803.2997 Fax:317.803.3047

EMSL Order ID: 162350110
LIMS Reference ID: CB50110
EMSL Customer ID: HTRW75

SAMPLE RECEIPT CONFIRMATION

Project: PCB
Customer PO:
Project Number: CITY OF HOMER, HERC 2 DEMOLITION + HER
Project Manager: Sara Dille

Printed: 05/10/2023 1:30 pm

(Continued)

Dear Client

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Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P27	162350110	CB50110-27

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P28	162350110	CB50110-28

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P29	162350110	CB50110-29

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P30	162350110	CB50110-30

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P31	162350110	CB50110-31

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P32	162350110	CB50110-32

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P33	162350110	CB50110-33

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

EMSL Analyical, Inc.
6340 Castleplace Drive, Indianapolis, IN, 46250
Telephone: 317.803.2997 Fax:317.803.3047

EMSL Order ID: 162350110
LIMS Reference ID: CB50110
EMSL Customer ID: HTRW75

SAMPLE RECEIPT CONFIRMATION

Project: PCB **Customer PO:**
Project Number: CITY OF HOMER, HERC 2 DEMOLITION + HER
Project Manager: Sara Dille

Printed: 05/10/2023 1:30 pm

(Continued)

Dear Client

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Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P34	162350110	CB50110-34

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Solid	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P35	162350110	CB50110-35

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Wipe	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P36	162350110	CB50110-36

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Wipe	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P37	162350110	CB50110-37

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Wipe	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P38	162350110	CB50110-38

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Wipe	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P39	162350110	CB50110-39

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Wipe	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P40	162350110	CB50110-40

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Wipe	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

Customer Sample	EMSL Sample ID	LIMS Sample ID
HERC1-0523-P41	162350110	CB50110-41

Test / Method	Matrix	Sampled Date/Time	Turnaround	Due Date/Time
16-PCB-8082A	Wipe	05/05/23 00:00	2 Week (EOD)	5/24/2023 6:00:00PM

EMSL Analyical, Inc.
6340 Castleplace Drive, Indianapolis, IN, 46250
Telephone: 317.803.2997 Fax:317.803.3047

EMSL Order ID: 162350110
LIMS Reference ID: CB50110
EMSL Customer ID: HTRW75

SAMPLE RECEIPT CONFIRMATION

Project: PCB **Customer PO:**
Project Number: CITY OF HOMER, HERC 2 DEMOLITION + HER
Project Manager: Sara Dille

Printed: 05/10/2023 1:30 pm

(Continued)

Dear Client

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EMSL Analytical, Inc.

6340 Castleplace Drive, Indianapolis, IN, 46250
Telephone: 317.803.2997 Fax:317.803.3047
IndianapolisLab@emsl.com / www.Emsl.com

EMSL Order ID: 162350110
LIMS Reference ID: CB50110
EMSL Customer ID: HTRW75

Attention: Chris Ottosen
HTRW, LLC [HTRW75]
11471 Business Blvd., 773442
Eagle River, AK 99577
(907) 917-3801
cottosen@htrw-llc.com

Project Name: CITY OF HOMER, HERC 2 DEMOLITION + HERC1 SCREENING
Customer PO:
EMSL Sales Rep: Sara Dille
Received: 05/10/2023 09:45
Reported: 06/05/2023 09:14

Analytical Results

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
Sample: HERC1-0523-P1			**Lims Reference ID:**		**CB50110-01**	**Matrix: Solid**			**Sampled: 05/05/23 00:00:00**	
Aroclor-1016	<0.79		1	0.79	mg/kg	05/18/23 11:13	05/26/23 22:48	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.79		1	0.79	mg/kg	05/18/23 11:13	05/26/23 22:48	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.79		1	0.79	mg/kg	05/18/23 11:13	05/26/23 22:48	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.79		1	0.79	mg/kg	05/18/23 11:13	05/26/23 22:48	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.79		1	0.79	mg/kg	05/18/23 11:13	05/26/23 22:48	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.79		1	0.79	mg/kg	05/18/23 11:13	05/26/23 22:48	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.79		1	0.79	mg/kg	05/18/23 11:13	05/26/23 22:48	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.79		1	0.79	mg/kg	05/18/23 11:13	05/26/23 22:48	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.79		1	0.79	mg/kg	05/18/23 11:13	05/26/23 22:48	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P2			**Lims Reference ID:**		**CB50110-02**	**Matrix: Solid**			**Sampled: 05/05/23 00:00:00**	
Aroclor-1016	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/26/23 23:11	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/26/23 23:11	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/26/23 23:11	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/26/23 23:11	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/26/23 23:11	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/26/23 23:11	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/26/23 23:11	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/26/23 23:11	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/26/23 23:11	GB/Wil	SW846 3546	SW 846-8082A

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EMSL Order ID: 162350110
LIMS Reference ID: CB50110
EMSL Customer ID: HTRW75

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Project Name: CITY OF HOMER, HERC 2 DEMOLITION + HERC1 SCREENING
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EMSL Sales Rep: Sara Dille
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Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
Sample: HERC1-0523-P2 (Continued)			**Lims Reference ID:**		**CB50110-02**	**Matrix: Solid**			**Sampled: 05/05/23 00:00:00**	
Sample: HERC1-0523-P3			**Lims Reference ID:**		**CB50110-03**	**Matrix: Solid**			**Sampled: 05/05/23 00:00:00**	
Aroclor-1016	<0.47		1	0.47	mg/kg	05/18/23 11:13	05/26/23 23:35	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.47		1	0.47	mg/kg	05/18/23 11:13	05/26/23 23:35	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.47		1	0.47	mg/kg	05/18/23 11:13	05/26/23 23:35	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.47		1	0.47	mg/kg	05/18/23 11:13	05/26/23 23:35	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.47		1	0.47	mg/kg	05/18/23 11:13	05/26/23 23:35	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.47		1	0.47	mg/kg	05/18/23 11:13	05/26/23 23:35	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.47		1	0.47	mg/kg	05/18/23 11:13	05/26/23 23:35	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.47		1	0.47	mg/kg	05/18/23 11:13	05/26/23 23:35	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.47		1	0.47	mg/kg	05/18/23 11:13	05/26/23 23:35	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P4			**Lims Reference ID:**		**CB50110-04**	**Matrix: Solid**			**Sampled: 05/05/23 00:00:00**	
Aroclor-1016	<0.48		1	0.48	mg/kg	05/18/23 11:13	05/26/23 23:58	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.48		1	0.48	mg/kg	05/18/23 11:13	05/26/23 23:58	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.48		1	0.48	mg/kg	05/18/23 11:13	05/26/23 23:58	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.48		1	0.48	mg/kg	05/18/23 11:13	05/26/23 23:58	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.48		1	0.48	mg/kg	05/18/23 11:13	05/26/23 23:58	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.48		1	0.48	mg/kg	05/18/23 11:13	05/26/23 23:58	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.48		1	0.48	mg/kg	05/18/23 11:13	05/26/23 23:58	GB/Wil	SW846 3546	SW 846-8082A

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Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
Sample: HERC1-0523-P4 (Continued)			**Lims Reference ID:**		**CB50110-04**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1262	<0.48		1	0.48	mg/kg	05/18/23 11:13	05/26/23 23:58	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.48		1	0.48	mg/kg	05/18/23 11:13	05/26/23 23:58	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P5			**Lims Reference ID:**		**CB50110-05**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.48		1	0.48	mg/kg	05/18/23 11:13	05/27/23 00:22	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.48		1	0.48	mg/kg	05/18/23 11:13	05/27/23 00:22	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.48		1	0.48	mg/kg	05/18/23 11:13	05/27/23 00:22	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.48		1	0.48	mg/kg	05/18/23 11:13	05/27/23 00:22	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.48		1	0.48	mg/kg	05/18/23 11:13	05/27/23 00:22	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.48		1	0.48	mg/kg	05/18/23 11:13	05/27/23 00:22	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.48		1	0.48	mg/kg	05/18/23 11:13	05/27/23 00:22	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.48		1	0.48	mg/kg	05/18/23 11:13	05/27/23 00:22	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.48		1	0.48	mg/kg	05/18/23 11:13	05/27/23 00:22	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P6			**Lims Reference ID:**		**CB50110-06**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/27/23 00:46	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/27/23 00:46	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/27/23 00:46	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/27/23 00:46	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/27/23 00:46	GB/Wil	SW846 3546	SW 846-8082A

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Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
Sample: HERC1-0523-P6 (Continued)			**Lims Reference ID:**		**CB50110-06**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1254	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/27/23 00:46	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/27/23 00:46	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/27/23 00:46	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/27/23 00:46	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P7			**Lims Reference ID:**		**CB50110-07**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/27/23 01:09	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/27/23 01:09	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/27/23 01:09	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/27/23 01:09	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/27/23 01:09	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/27/23 01:09	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/27/23 01:09	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	**0.54**		1	0.49	mg/kg	05/18/23 11:13	05/27/23 01:09	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.49		1	0.49	mg/kg	05/18/23 11:13	05/27/23 01:09	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P8			**Lims Reference ID:**		**CB50110-08**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 16:46	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 16:46	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 16:46	GB/Wil	SW846 3546	SW 846-8082A

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Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
Sample: HERC1-0523-P8 (Continued)			**Lims Reference ID:**		**CB50110-08**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1242	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 16:46	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 16:46	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 16:46	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	**1.7**		1	0.47	mg/kg	05/19/23 08:02	05/26/23 16:46	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 16:46	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 16:46	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P9			**Lims Reference ID:**		**CB50110-09**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 17:37	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 17:37	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 17:37	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 17:37	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 17:37	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 17:37	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 17:37	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 17:37	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 17:37	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P10			**Lims Reference ID:**		**CB50110-10**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 18:03	GB/Wil	SW846 3546	SW 846-8082A

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Analytical Results
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Sample: HERC1-0523-P10 (Continued)			**Lims Reference ID:**		**CB50110-10**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1221	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 18:03	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 18:03	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 18:03	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 18:03	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 18:03	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	**1.1**		1	0.49	mg/kg	05/19/23 08:02	05/26/23 18:03	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 18:03	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 18:03	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P11			**Lims Reference ID:**		**CB50110-11**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 18:28	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 18:28	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 18:28	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 18:28	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 18:28	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 18:28	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 18:28	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 18:28	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 18:28	GB/Wil	SW846 3546	SW 846-8082A

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Project Name: CITY OF HOMER, HERC 2 DEMOLITION + HERC1 SCREENING
Customer PO:
EMSL Sales Rep: Sara Dille
Received: 05/10/2023 09:45
Reported: 06/05/2023 09:14

Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
Sample: HERC1-0523-P12			**Lims Reference ID:**		**CB50110-12**	**Matrix: Solid**			**Sampled: 05/05/23 00:00:00**	
Aroclor-1016	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 18:54	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 18:54	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 18:54	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 18:54	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 18:54	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 18:54	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 18:54	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 18:54	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 18:54	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P13			**Lims Reference ID:**		**CB50110-13**	**Matrix: Solid**			**Sampled: 05/05/23 00:00:00**	
Aroclor-1016	<0.95		1	0.95	mg/kg	05/19/23 08:02	05/26/23 20:11	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.95		1	0.95	mg/kg	05/19/23 08:02	05/26/23 20:11	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.95		1	0.95	mg/kg	05/19/23 08:02	05/26/23 20:11	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.95		1	0.95	mg/kg	05/19/23 08:02	05/26/23 20:11	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.95		1	0.95	mg/kg	05/19/23 08:02	05/26/23 20:11	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	**1.3**		1	0.95	mg/kg	05/19/23 08:02	05/26/23 20:11	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.95		1	0.95	mg/kg	05/19/23 08:02	05/26/23 20:11	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.95		1	0.95	mg/kg	05/19/23 08:02	05/26/23 20:11	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.95		1	0.95	mg/kg	05/19/23 08:02	05/26/23 20:11	GB/Wil	SW846 3546	SW 846-8082A

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EMSL Order ID: 162350110
LIMS Reference ID: CB50110
EMSL Customer ID: HTRW75

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Analytical Results
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Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
Sample: HERC1-0523-P13 (Continued)			**Lims Reference ID:**		**CB50110-13**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Sample: HERC1-0523-P14			**Lims Reference ID:**		**CB50110-14**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.92		1	0.92	mg/kg	05/19/23 08:02	05/26/23 20:36	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.92		1	0.92	mg/kg	05/19/23 08:02	05/26/23 20:36	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.92		1	0.92	mg/kg	05/19/23 08:02	05/26/23 20:36	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.92		1	0.92	mg/kg	05/19/23 08:02	05/26/23 20:36	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.92		1	0.92	mg/kg	05/19/23 08:02	05/26/23 20:36	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	**2.5**		1	0.92	mg/kg	05/19/23 08:02	05/26/23 20:36	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	**2.4**		1	0.92	mg/kg	05/19/23 08:02	05/26/23 20:36	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.92		1	0.92	mg/kg	05/19/23 08:02	05/26/23 20:36	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.92		1	0.92	mg/kg	05/19/23 08:02	05/26/23 20:36	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P15			**Lims Reference ID:**		**CB50110-15**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.78		1	0.78	mg/kg	05/19/23 08:02	05/26/23 21:02	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.78		1	0.78	mg/kg	05/19/23 08:02	05/26/23 21:02	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.78		1	0.78	mg/kg	05/19/23 08:02	05/26/23 21:02	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.78		1	0.78	mg/kg	05/19/23 08:02	05/26/23 21:02	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.78		1	0.78	mg/kg	05/19/23 08:02	05/26/23 21:02	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.78		1	0.78	mg/kg	05/19/23 08:02	05/26/23 21:02	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.78		1	0.78	mg/kg	05/19/23 08:02	05/26/23 21:02	GB/Wil	SW846 3546	SW 846-8082A

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Analytical Results
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Sample: HERC1-0523-P15 (Continued)			**Lims Reference ID:**		**CB50110-15**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1262	<0.78		1	0.78	mg/kg	05/19/23 08:02	05/26/23 21:02	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.78		1	0.78	mg/kg	05/19/23 08:02	05/26/23 21:02	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P16			**Lims Reference ID:**		**CB50110-16**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.42		1	0.42	mg/kg	05/19/23 08:02	05/26/23 21:28	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.42		1	0.42	mg/kg	05/19/23 08:02	05/26/23 21:28	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.42		1	0.42	mg/kg	05/19/23 08:02	05/26/23 21:28	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.42		1	0.42	mg/kg	05/19/23 08:02	05/26/23 21:28	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.42		1	0.42	mg/kg	05/19/23 08:02	05/26/23 21:28	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.42		1	0.42	mg/kg	05/19/23 08:02	05/26/23 21:28	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.42		1	0.42	mg/kg	05/19/23 08:02	05/26/23 21:28	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.42		1	0.42	mg/kg	05/19/23 08:02	05/26/23 21:28	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.42		1	0.42	mg/kg	05/19/23 08:02	05/26/23 21:28	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P17			**Lims Reference ID:**		**CB50110-17**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 21:53	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 21:53	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 21:53	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 21:53	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 21:53	GB/Wil	SW846 3546	SW 846-8082A

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Sample: HERC1-0523-P17 (Continued)			**Lims Reference ID:**		**CB50110-17**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1254	**0.90**		1	0.47	mg/kg	05/19/23 08:02	05/26/23 21:53	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 21:53	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 21:53	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/26/23 21:53	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P18			**Lims Reference ID:**		**CB50110-18**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 22:19	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 22:19	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 22:19	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 22:19	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 22:19	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 22:19	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 22:19	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 22:19	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 22:19	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P19			**Lims Reference ID:**		**CB50110-19**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/26/23 22:44	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/26/23 22:44	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/26/23 22:44	GB/Wil	SW846 3546	SW 846-8082A

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Sample: HERC1-0523-P19 (Continued)			**Lims Reference ID:**		**CB50110-19**	**Matrix: Solid**			**Sampled: 05/05/23 00:00:00**	
Aroclor-1242	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/26/23 22:44	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/26/23 22:44	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/26/23 22:44	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/26/23 22:44	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/26/23 22:44	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/26/23 22:44	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P20			**Lims Reference ID:**		**CB50110-20**	**Matrix: Solid**			**Sampled: 05/05/23 00:00:00**	
Aroclor-1016	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 23:10	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 23:10	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 23:10	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 23:10	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 23:10	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 23:10	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 23:10	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 23:10	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/26/23 23:10	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P21			**Lims Reference ID:**		**CB50110-21**	**Matrix: Solid**			**Sampled: 05/05/23 00:00:00**	
Aroclor-1016	<4.9		10	4.9	mg/kg	05/19/23 08:02	05/26/23 23:36	GB/Wil	SW846 3546	SW 846-8082A

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Sample: HERC1-0523-P21 (Continued)			**Lims Reference ID:**		**CB50110-21**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1221	<4.9		10	4.9	mg/kg	05/19/23 08:02	05/26/23 23:36	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<4.9		10	4.9	mg/kg	05/19/23 08:02	05/26/23 23:36	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<4.9		10	4.9	mg/kg	05/19/23 08:02	05/26/23 23:36	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<4.9		10	4.9	mg/kg	05/19/23 08:02	05/26/23 23:36	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	**9.1**		10	4.9	mg/kg	05/19/23 08:02	05/26/23 23:36	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<4.9		10	4.9	mg/kg	05/19/23 08:02	05/26/23 23:36	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	**25**		10	4.9	mg/kg	05/19/23 08:02	05/26/23 23:36	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<4.9		10	4.9	mg/kg	05/19/23 08:02	05/26/23 23:36	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P22			**Lims Reference ID:**		**CB50110-22**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/27/23 00:52	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/27/23 00:52	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/27/23 00:52	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/27/23 00:52	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/27/23 00:52	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/27/23 00:52	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/27/23 00:52	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/27/23 00:52	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/27/23 00:52	GB/Wil	SW846 3546	SW 846-8082A

Sara A Dille Laboratory Manager or other approved signatory

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EMSL Order ID: 162350110
LIMS Reference ID: CB50110
EMSL Customer ID: HTRW75

Attention: Chris Ottosen
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Project Name: CITY OF HOMER, HERC 2 DEMOLITION + HERC1 SCREENING
Customer PO:
EMSL Sales Rep: Sara Dille
Received: 05/10/2023 09:45
Reported: 06/05/2023 09:14

Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
Sample: HERC1-0523-P23			**Lims Reference ID:**		**CB50110-23**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.46		1	0.46	mg/kg	05/19/23 08:02	05/27/23 01:18	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.46		1	0.46	mg/kg	05/19/23 08:02	05/27/23 01:18	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.46		1	0.46	mg/kg	05/19/23 08:02	05/27/23 01:18	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.46		1	0.46	mg/kg	05/19/23 08:02	05/27/23 01:18	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.46		1	0.46	mg/kg	05/19/23 08:02	05/27/23 01:18	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	**6.1**		1	0.46	mg/kg	05/19/23 08:02	05/27/23 01:18	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	**6.2**		1	0.46	mg/kg	05/19/23 08:02	05/27/23 01:18	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.46		1	0.46	mg/kg	05/19/23 08:02	05/27/23 01:18	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.46		1	0.46	mg/kg	05/19/23 08:02	05/27/23 01:18	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P24			**Lims Reference ID:**		**CB50110-24**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/27/23 01:44	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/27/23 01:44	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/27/23 01:44	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/27/23 01:44	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/27/23 01:44	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	**0.90**		1	0.49	mg/kg	05/19/23 08:02	05/27/23 01:44	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/27/23 01:44	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/27/23 01:44	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.49		1	0.49	mg/kg	05/19/23 08:02	05/27/23 01:44	GB/Wil	SW846 3546	SW 846-8082A

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EMSL Customer ID: HTRW75

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Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
Sample: HERC1-0523-P24 (Continued)			**Lims Reference ID:**		**CB50110-24**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Sample: HERC1-0523-P25			**Lims Reference ID:**		**CB50110-25**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/27/23 02:09	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/27/23 02:09	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/27/23 02:09	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/27/23 02:09	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/27/23 02:09	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/27/23 02:09	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/27/23 02:09	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/27/23 02:09	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/27/23 02:09	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P26			**Lims Reference ID:**		**CB50110-26**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/27/23 02:35	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/27/23 02:35	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/27/23 02:35	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/27/23 02:35	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/27/23 02:35	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/27/23 02:35	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/27/23 02:35	GB/Wil	SW846 3546	SW 846-8082A

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Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
Sample: HERC1-0523-P26 (Continued)			**Lims Reference ID:**		**CB50110-26**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1262	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/27/23 02:35	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.47		1	0.47	mg/kg	05/19/23 08:02	05/27/23 02:35	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P27			**Lims Reference ID:**		**CB50110-27**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/27/23 03:00	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/27/23 03:00	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/27/23 03:00	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/27/23 03:00	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/27/23 03:00	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/27/23 03:00	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/27/23 03:00	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/27/23 03:00	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.48		1	0.48	mg/kg	05/19/23 08:02	05/27/23 03:00	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P28			**Lims Reference ID:**		**CB50110-28**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 14:08	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 14:08	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 14:08	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 14:08	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 14:08	GB/Wil	SW846 3546	SW 846-8082A

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Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
Sample: HERC1-0523-P28 (Continued)			**Lims Reference ID:**		**CB50110-28**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1254	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 14:08	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 14:08	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 14:08	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 14:08	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P29			**Lims Reference ID:**		**CB50110-29**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.93		1	0.93	mg/kg	05/22/23 14:26	05/26/23 14:55	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.93		1	0.93	mg/kg	05/22/23 14:26	05/26/23 14:55	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.93		1	0.93	mg/kg	05/22/23 14:26	05/26/23 14:55	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.93		1	0.93	mg/kg	05/22/23 14:26	05/26/23 14:55	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.93		1	0.93	mg/kg	05/22/23 14:26	05/26/23 14:55	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.93		1	0.93	mg/kg	05/22/23 14:26	05/26/23 14:55	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.93		1	0.93	mg/kg	05/22/23 14:26	05/26/23 14:55	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.93		1	0.93	mg/kg	05/22/23 14:26	05/26/23 14:55	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.93		1	0.93	mg/kg	05/22/23 14:26	05/26/23 14:55	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P30			**Lims Reference ID:**		**CB50110-30**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.61		1	0.61	mg/kg	05/22/23 14:26	05/26/23 15:19	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.61		1	0.61	mg/kg	05/22/23 14:26	05/26/23 15:19	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.61		1	0.61	mg/kg	05/22/23 14:26	05/26/23 15:19	GB/Wil	SW846 3546	SW 846-8082A

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Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
Sample: HERC1-0523-P30 (Continued)			**Lims Reference ID:**		**CB50110-30**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1242	<0.61		1	0.61	mg/kg	05/22/23 14:26	05/26/23 15:19	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.61		1	0.61	mg/kg	05/22/23 14:26	05/26/23 15:19	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.61		1	0.61	mg/kg	05/22/23 14:26	05/26/23 15:19	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.61		1	0.61	mg/kg	05/22/23 14:26	05/26/23 15:19	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.61		1	0.61	mg/kg	05/22/23 14:26	05/26/23 15:19	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.61		1	0.61	mg/kg	05/22/23 14:26	05/26/23 15:19	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P31			**Lims Reference ID:**		**CB50110-31**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 15:42	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 15:42	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 15:42	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 15:42	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 15:42	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 15:42	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 15:42	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 15:42	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 15:42	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P32			**Lims Reference ID:**		**CB50110-32**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.43		1	0.43	mg/kg	05/22/23 14:26	05/26/23 16:06	GB/Wil	SW846 3546	SW 846-8082A

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Sample: HERC1-0523-P32 (Continued)			**Lims Reference ID:**		**CB50110-32**	**Matrix: Solid**				**Sampled: 05/05/23 00:00:00**
Aroclor-1221	<0.43		1	0.43	mg/kg	05/22/23 14:26	05/26/23 16:06	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.43		1	0.43	mg/kg	05/22/23 14:26	05/26/23 16:06	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.43		1	0.43	mg/kg	05/22/23 14:26	05/26/23 16:06	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.43		1	0.43	mg/kg	05/22/23 14:26	05/26/23 16:06	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.43		1	0.43	mg/kg	05/22/23 14:26	05/26/23 16:06	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.43		1	0.43	mg/kg	05/22/23 14:26	05/26/23 16:06	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.43		1	0.43	mg/kg	05/22/23 14:26	05/26/23 16:06	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.43		1	0.43	mg/kg	05/22/23 14:26	05/26/23 16:06	GB/Wil	SW846 3546	SW 846-8082A
Sample: HERC1-0523-P33			**Lims Reference ID:**		**CB50110-33**	**Matrix: Solid**				**Sampled: 05/05/23 00:00:00**
Aroclor-1016	<0.48		1	0.48	mg/kg	05/22/23 14:26	05/26/23 16:30	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.48		1	0.48	mg/kg	05/22/23 14:26	05/26/23 16:30	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.48		1	0.48	mg/kg	05/22/23 14:26	05/26/23 16:30	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.48		1	0.48	mg/kg	05/22/23 14:26	05/26/23 16:30	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.48		1	0.48	mg/kg	05/22/23 14:26	05/26/23 16:30	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	<0.48		1	0.48	mg/kg	05/22/23 14:26	05/26/23 16:30	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.48		1	0.48	mg/kg	05/22/23 14:26	05/26/23 16:30	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.48		1	0.48	mg/kg	05/22/23 14:26	05/26/23 16:30	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.48		1	0.48	mg/kg	05/22/23 14:26	05/26/23 16:30	GB/Wil	SW846 3546	SW 846-8082A

Sara A Dille Laboratory Manager or other approved signatory

EMSL Analytical, Inc.

6340 Castleplace Drive, Indianapolis, IN, 46250
Telephone: 317.803.2997 Fax:317.803.3047
IndianapolisLab@emsl.com / www.Emsl.com

EMSL Order ID: 162350110
LIMS Reference ID: CB50110
EMSL Customer ID: HTRW75

Attention: Chris Ottosen
HTRW, LLC [HTRW75]
11471 Business Blvd., 773442
Eagle River, AK 99577
(907) 917-3801
cottosen@htrw-llc.com

Project Name: CITY OF HOMER, HERC 2 DEMOLITION + HERC1 SCREENING
Customer PO:
EMSL Sales Rep: Sara Dille
Received: 05/10/2023 09:45
Reported: 06/05/2023 09:14

Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
Sample: HERC1-0523-P34			**Lims Reference ID:**		**CB50110-34**	**Matrix: Solid**			**Sampled:**	**05/05/23 00:00:00**
Aroclor-1016	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 16:53	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1221	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 16:53	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1232	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 16:53	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1242	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 16:53	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1248	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 16:53	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1254	**1.0**		1	0.49	mg/kg	05/22/23 14:26	05/26/23 16:53	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1260	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 16:53	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1262	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 16:53	GB/Wil	SW846 3546	SW 846-8082A
Aroclor-1268	<0.49		1	0.49	mg/kg	05/22/23 14:26	05/26/23 16:53	GB/Wil	SW846 3546	SW 846-8082A

Sara A Dille Laboratory Manager or other approved signatory

EMSL Analytical, Inc.

6340 Castleplace Drive, Indianapolis, IN, 46250
Telephone: 317.803.2997 Fax:317.803.3047
IndianapolisLab@emsl.com / www.Emsl.com

EMSL Order ID: 162350110
LIMS Reference ID: CB50110
EMSL Customer ID: HTRW75

Attention: Chris Ottosen
HTRW, LLC [HTRW75]
11471 Business Blvd., 773442
Eagle River, AK 99577
(907) 917-3801
cottosen@htrw-llc.com

Project Name: CITY OF HOMER, HERC 2 DEMOLITION + HERC1 SCREENING
Customer PO:
EMSL Sales Rep: Sara Dille
Received: 05/10/2023 09:45
Reported: 06/05/2023 09:14

Notes and Definitions

Item	Definition
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

Appendix C.4 – PCB Laboratory Accreditations

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EMSL ANALYTICAL, INC.
6340 Castleplace Dr.
Indianapolis, IN 46250
Sara Dille Phone: 317-803-2997

ENVIRONMENTAL

Valid To: July 31, 2024 Certificate Number: 2845.25

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the laboratory's compliance with ISO/IEC 17025:2017 and the 2016 TNI Environmental Testing Laboratory Standard), accreditation is granted to this laboratory to perform recognized EPA methods using the following testing technologies and, in the analyte, categories identified below:

Analyte	Potable Water	Non-Potable Water	Solid Hazardous Waste
Aroclor 1016	----------	----------	EPA 8082/8082 A
Aroclor 1221	----------	----------	EPA 8082/8082 A
Aroclor 1232	----------	----------	EPA 8082/8082 A
Aroclor 1242	----------	----------	EPA 8082/8082 A
Aroclor 1248	----------	----------	EPA 8082/8082 A
Aroclor 1254	----------	----------	EPA 8082/8082 A
Aroclor 1260	----------	----------	EPA 8082/8082 A

Test Method/Analyte	Reference Method	Laboratory Method
Metals by ICP-OES Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Sr, Ti, Th, V, Zn	EPA 6010B/D	LM-SOP-001B
Metals by ICP-MS Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl, Mn, Zn, Fe, Al	EPA 200.8	LM-SOP-024
Mercury by CVAA	EPA 245.1, EPA 7470A, EPA 7471B	LM-SOP-011, LM-SOP-012A
Bulk Asbestos	EPA 600/R-93/116	ASB-SOP-200

5202 Presidents Court, Suite 220 | Frederick, MD 21703-8398 | Phone: 301 644 3248 | Fax: 240 454 9449 | www.A2LA.org

Accredited Laboratory

A2LA has accredited

EMSL ANALYTICAL, INC.

Indianapolis, IN

for technical competence in the field of

Environmental Testing

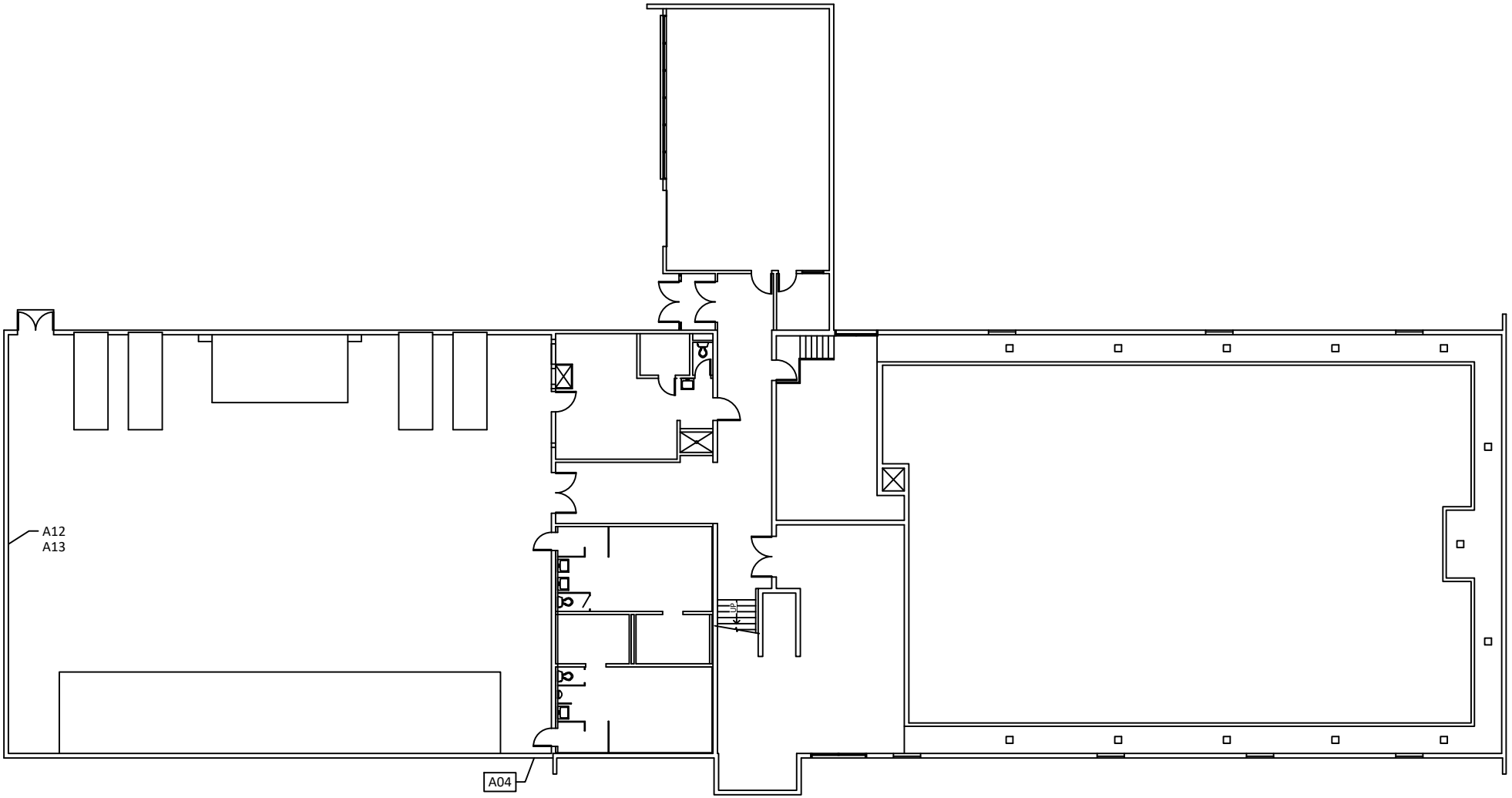
This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of A2LA *R206 – Specific Requirements – Environmental Testing Laboratory Accreditation Program.* This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 16th Day of August 2022.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2845.25
Valid to July 31, 2024

For the tests to which this accreditation applies, please refer to the laboratory's Environmental Scope of Accreditation.

Appendix D – Drawings of Asbestos and PCB Test Locations



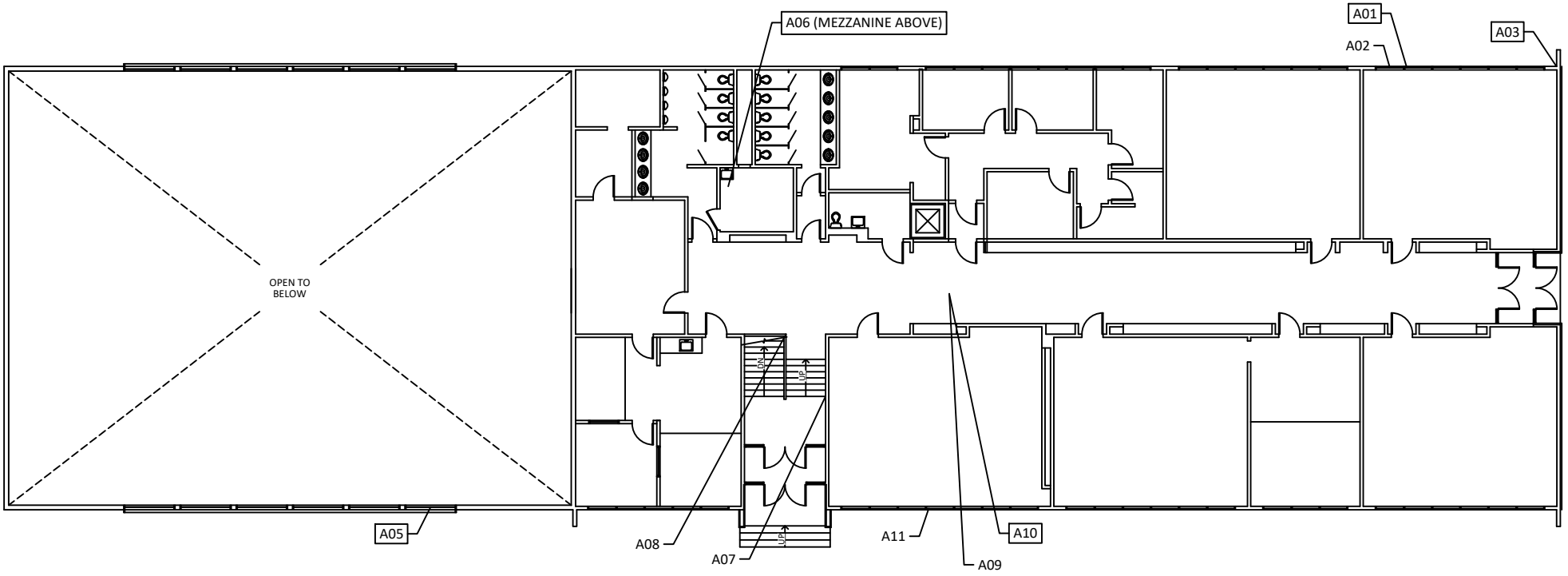
1 FIRST FLOOR
NTS

AXX ASBESTOS SAMPLE LOCATION
AXX SAMPLE CONTAINING ASBESTOS

- All samples have a prefix of HERC2-1022- unless noted otherwise.
- Refer to the Hazardous Materials Assessment for complete information about these samples.

HTRW, LLC
HAZARDOUS BUILDING MATERIALS CONSULTING
11471 BUSINESS BLVD., #773442, EAGLE RIVER, AK 99577
(907) 917-3801 · (917) 203-7517 (FAX) · CONTACT@HTRW-LLC.COM

Sheet Title	Asbestos Sample Locations	Drawing Number	2022-12-SL3.dwg
HTRW Project Number	2022-12	Sheet Number	SL-1
Project Name	City of Homer, Homer Education and Recreation Complex (HERC) 2 Demolition; HERC 1 Screening Subtask	Inspector/Collected By	Christopher T. Ottosen
Address/Location	"Big HERC Building" at 450 Sterling Highway, Homer, Alaska	Collection Date	May 05-06, 2023



AXX ASBESTOS SAMPLE LOCATION

AXX SAMPLE CONTAINING ASBESTOS

1 SECOND FLOOR

NTS

N

- All samples have a prefix of HERC2-1022- unless noted otherwise.
- Refer to the Hazardous Materials Assessment for complete information about these samples.

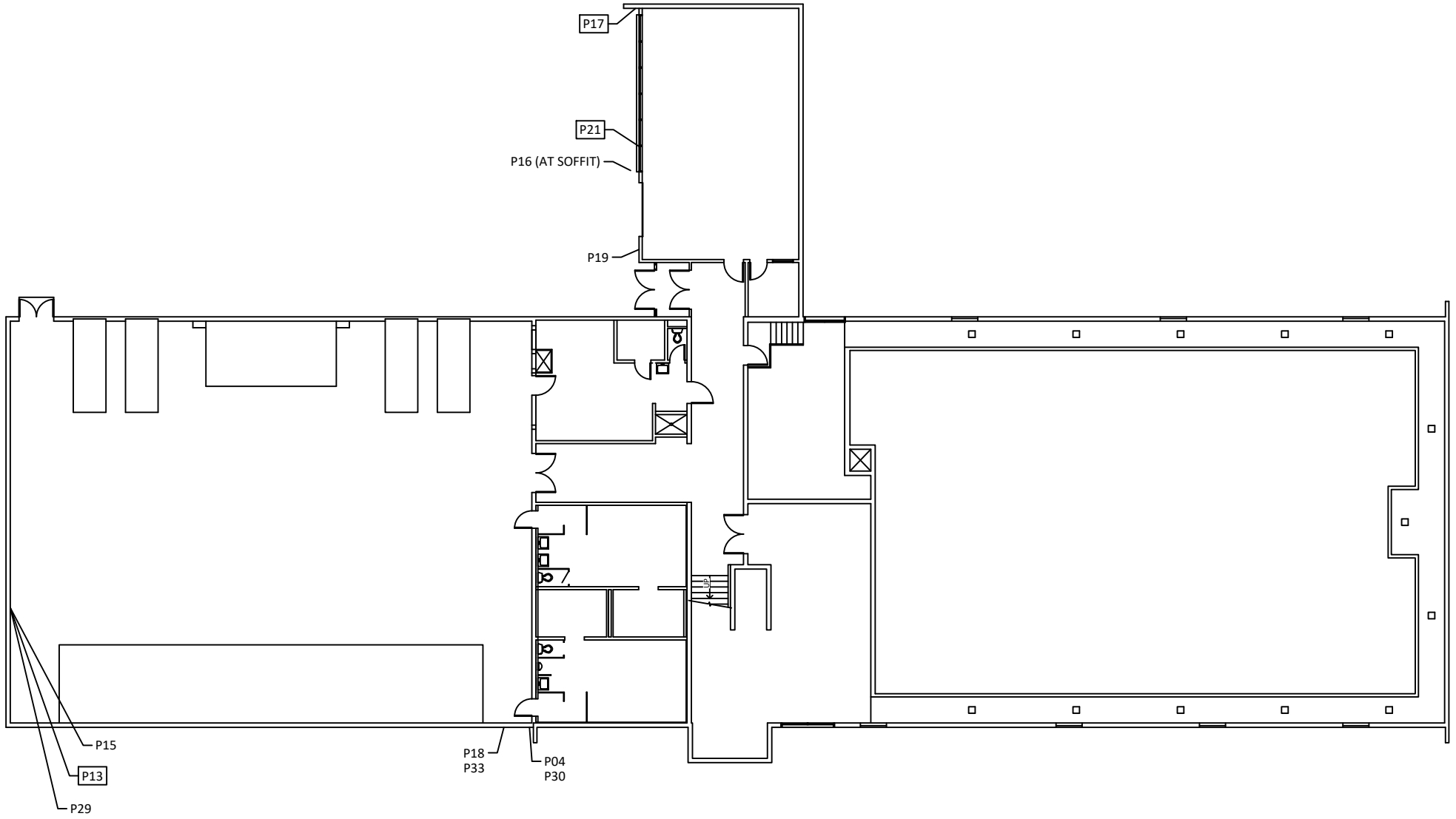
HTRW, LLC

HAZARDOUS BUILDING MATERIALS CONSULTING

11471 BUSINESS BLVD., #773442, EAGLE RIVER, AK 99577

(907) 917-3801 · (917) 203-7517 (FAX) · CONTACT@HTRW-LLC.COM

Sheet Title	Asbestos Sample Locations	Drawing Number	2022-12-SL3.dwg
HTRW Project Number	2022-12	Sheet Number	SL-2
Project Name	City of Homer, Homer Education and Recreation Complex (HERC) 2 Demolition; HERC 1 Screening Subtask	Inspector/Collected By	Christopher T. Ottosen
Address/Location	"Big HERC Building" at 450 Sterling Highway, Homer, Alaska	Collection Date	May 05-06, 2023



1 FIRST FLOOR

NTS

PXX PCB SAMPLE LOCATION

PXX SAMPLE CONTAINING PCBs AT ANY DETECTABLE CONCENTRATION

- All samples have a prefix of HERC1-0523- unless noted otherwise.
- Refer to the Hazardous Materials Assessment for complete information about these samples.

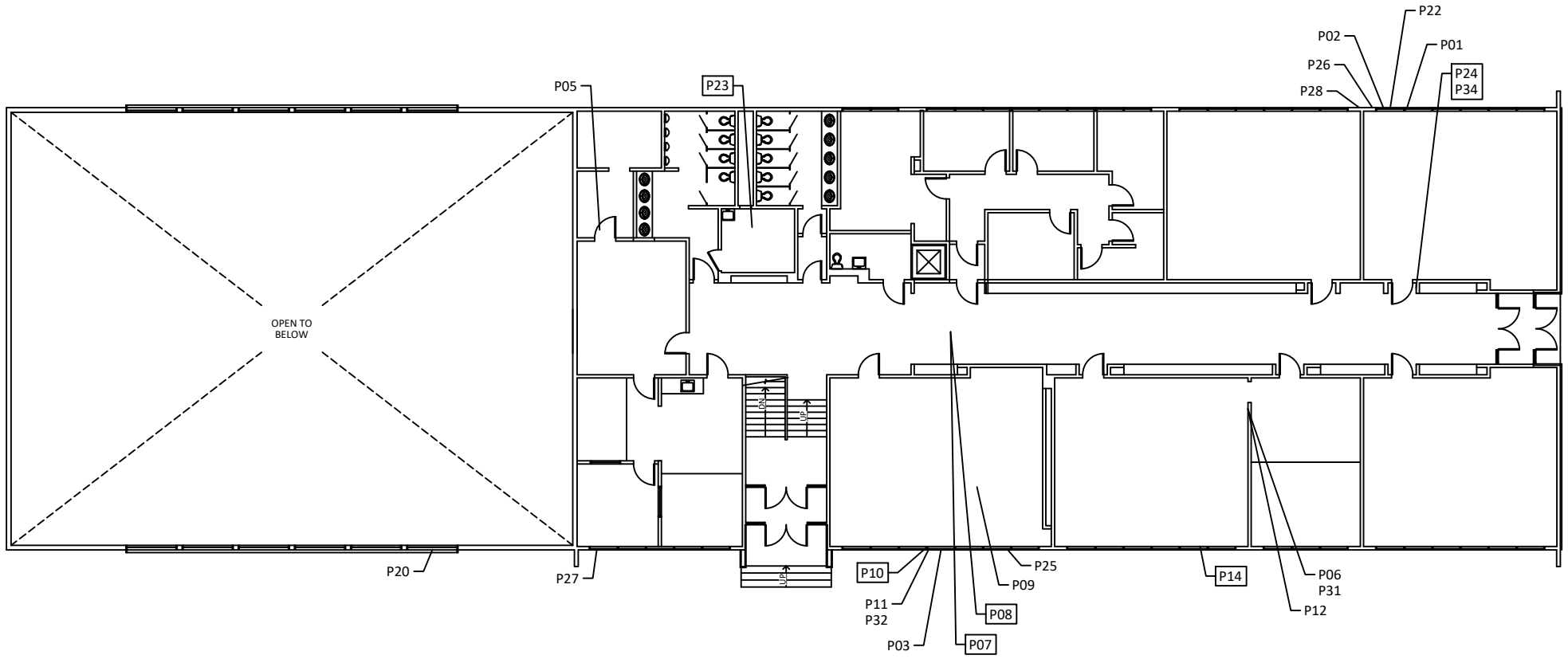
HTRW, LLC

HAZARDOUS BUILDING MATERIALS CONSULTING

11471 BUSINESS BLVD., #773442, EAGLE RIVER, AK 99577

(907) 917-3801 · (917) 203-7517 (FAX) · CONTACT@HTRW-LLC.COM

Sheet Title	Polychlorinated Biphenyl (PCB) Sample Locations	Drawing Number	2022-12-SL3.dwg
HTRW Project Number	2022-12	Sheet Number	SL-3
Project Name	City of Homer, Homer Education and Recreation Complex (HERC) 2 Demolition; HERC 1 Screening Subtask	Inspector/Collected By	Christopher T. Ottosen
Address/Location	"Big HERC Building" at 450 Sterling Highway, Homer, Alaska	Collection Date	May 05-06, 2023



1 SECOND FLOOR

NTS

N

PXX PCB SAMPLE LOCATION

PXX SAMPLE CONTAINING PCBs AT ANY DETECTABLE CONCENTRATION

- All samples have a prefix of HERC1-0523- unless noted otherwise.
- Refer to the Hazardous Materials Assessment for complete information about these samples.

HTRW, LLC

HAZARDOUS BUILDING MATERIALS CONSULTING

11471 BUSINESS BLVD., #773442, EAGLE RIVER, AK 99577

(907) 917-3801 · (917) 203-7517 (FAX) · CONTACT@HTRW-LLC.COM

Sheet Title	Polychlorinated Biphenyl (PCB) Sample Locations	Drawing Number	2022-12-SL3.dwg
HTRW Project Number	2022-12	Sheet Number	SL-4
Project Name	City of Homer, Homer Education and Recreation Complex (HERC) 2 Demolition; HERC 1 Screening Subtask	Inspector/Collected By	Christopher T. Ottosen
Address/Location	"Big HERC Building" at 450 Sterling Highway, Homer, Alaska	Collection Date	May 05-06, 2023

Appendix E – Supplemental Information


253; 2023-05-05 10:19

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery door's "+" "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "ON/OFF" key to turn it on .

Place the item to be weighed on the surface and wait until the reading is stable.

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale continues to read for weight after the "tare" weight during the "tare".

Calibration

1 . Press and hold the "MODE" key until the display reads "CAL", then release the key.

2 . Press the "MODE" key again and the display will show the required calibration weight.

3 .Place the weight on the center of the platform.

4. The LCD display will read "CALE" and then return to normal weighing mode.

T M

254; 2023-05-05 10:29

255; 2023-05-05 10:43

QUICK START GUIDE

Insert the battery

Weighing

Taring

Calibration

9.221

T M

256; 2023-05-05 10:49


257; 2023-05-05 10:56

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "ON/OFF" key to turn it on .

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight item".

Calibration

1. Press and hold the "MODE" key until the display reads "CAL", then release the key.

2. Press the "MODE" key again and the display will show the required calibration weight.

3.Place the weight on the center of the platform.

4. The LCD display will read "PASS" and then return to normal weighing mode.

259; 2023-05-05 11:05

QUICK START GUIDE

Insert the battery

Weighing

Taring

Calibration

260; 2023-05-05 11:10


261; 2023-05-05 11:22

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "ON/OFF" key to turn it on .

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight item".

Calibration

1. Press and hold the "MODE" key until the display reads "CAL", then release the key.

2. Press the "MODE" key again and the display will show the required calibration weight.

3.Place the weight on the center of the platform.

4. The LCD display will read "PASS" and then return to normal weighing mode.


263; 2023-05-05 11:25

QUICK START GUIDE

Insert the battery

Weighing

Taring

Calibration

264; 2023-05-05 11:37


265; 2023-05-05 11:37


266; 2023-05-05 11:41


267; 2023-05-05 12:03

268; 2023-05-05 12:07


269; 2023-05-05 12:10

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "on/off" key to turn it on .

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight item".

Calibration

1. Pre. + and hold the"MODE" key until the display reads "CAL", then release the key.

2. Press the"MODE"key again and the display will show the required calibration weight.

3.Place the weight on the center of the platform.

4. The LCD display will read "PASS" and then return to normal weighing mode.

9744

T M

270; 2023-05-05 12:16

271; 2023-05-05 12:20


272; 2023-05-05 12:22


273; 2023-05-05 12:24

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "ON/OFF" key to turn it on .

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight-item".

Calibration

1. Press and hold the "MODE" key until the display reads "CAL", then release the key.

2. Press the "MODE" key again and the display will show the required calibration weight.

3. Place the weight on the center of the platform.

4. The LCD display will read "PASS" and then return to normal weighing mode.

274; 2023-05-05 12:25


275; 2023-05-05 13:59

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "ON/OFF" key to turn it on .

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight item".

Calibration

1. Press and hold the "MODE" key until the display reads "CAL", then release the key.

2. Press the "MODE" key again and the display will show the required calibration weight.

3.Place the weight on the center of the platform.

4. The LCD display will read "PASS" and then return to normal weighing mode.

109.18

T M

276; 2023-05-05 14:01


277; 2023-05-05 14:04

281; 2023-05-05 14:38

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "ON/OFF" key to turn it on .

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight-item".

Calibration

1. Press and hold the "MODE" key until the display reads "CAL", then release the key.

2. Press the "MODE" key again and the display will show the required calibration weight.

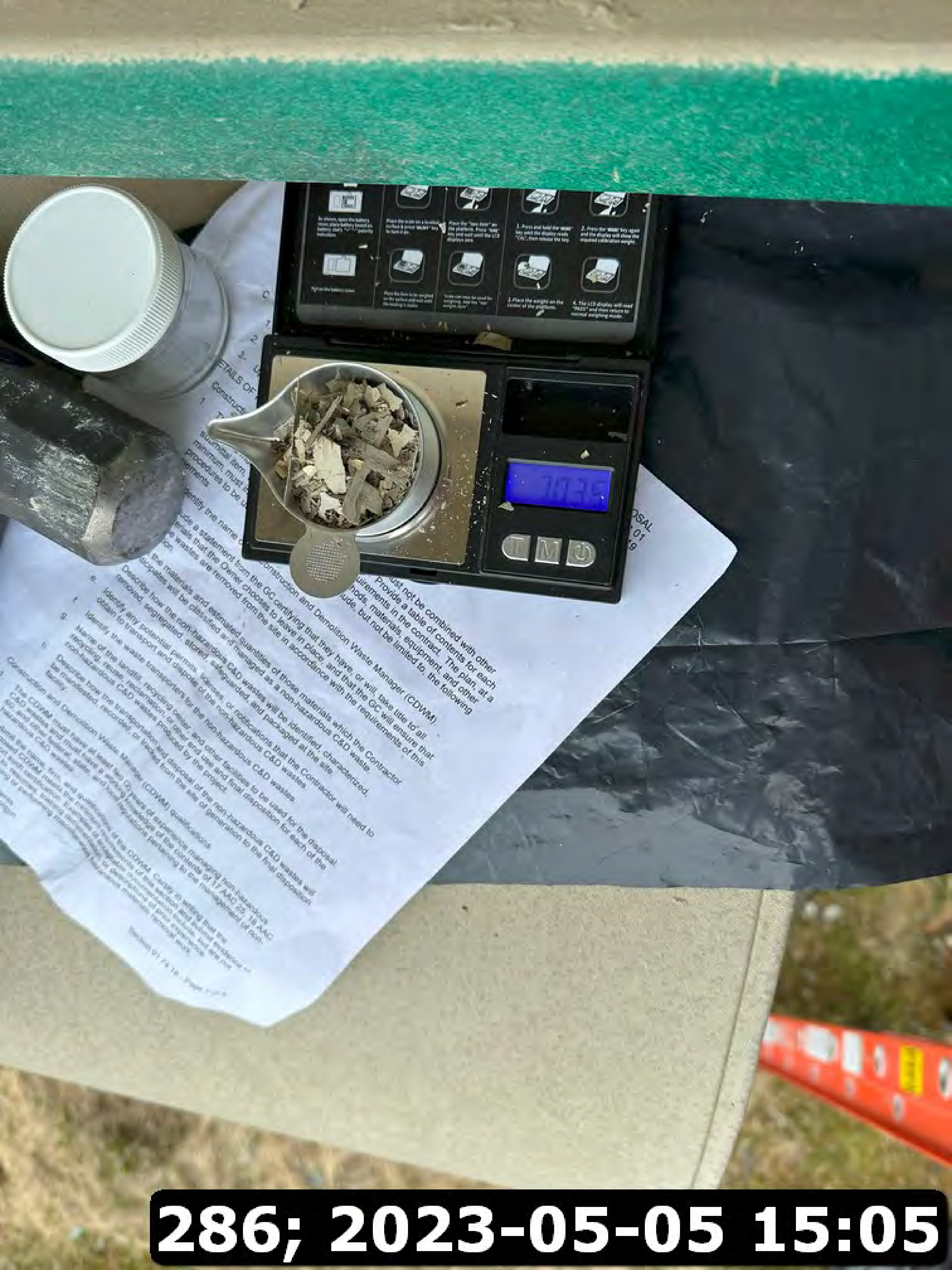
3.Place the weight on the center of the platform.

4. The LCD display will read "PASS" and then return to normal weighing mode.

283; 2023-05-05 14:42


284; 2023-05-05 14:44


285; 2023-05-05 15:05



286; 2023-05-05 15:05


287; 2023-05-05 15:09

288; 2023-05-05 15:11

289; 2023-05-05 15:20

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "ON/OFF" key to turn it on .

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight item".

Calibration

1. Press and hold the "MODE" key until the display reads "CAL", then release the key.

2. Press the "MODE" key again and the display will show the required calibration weight.

3.Place the weight on the center of the platform.

4. The LCD display will read "PASS" and then return to normal weighing mode.

7808

T M

290; 2023-05-05 15:20


291; 2023-05-05 15:32

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "ON/OFF" key to turn it on .

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight item".

Calibration

1. Press and hold the "MODE" key until the display reads "CAL", then release the key.

2. Press the "MODE" key again and the display will show the required calibration weight.

3.Place the weight on the center of the platform.

4. The LCD display will read "PASS" and then return to normal weighing mode.

292; 2023-05-05 15:32

293; 2023-05-05 15:41

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "on/off" key to turn it on .

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight item".

Calibration

1. Press and hold the "MODE" key until the display reads "CAL", then release the key.

2. Press the "MODE" key again and the display will show the required calibration weight.

3. Place the weight on the center of the platform.

4. The LCD display will read "PASS" and then return to normal weighing mode.

294; 2023-05-05 15:45

295; 2023-05-05 16:10

296; 2023-05-05 16:25


297; 2023-05-05 16:44

298; 2023-05-05 16:44


299; 2023-05-05 16:45


300; 2023-05-05 16:45


301; 2023-05-05 16:45


6
302; 2023-05-05 16:49

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "ON/OFF" key to turn it on.

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight-item".

Calibration

1. Press and hold the "MODE" key until the display reads "CAL", then release the key.

2. Press the "MODE" key again and the display will show the required calibration weight.

3. Place the weight on the center of the platform.

4. The LCD display will read "PASS" and then return to normal weighing mode.

303; 2023-05-05 16:58

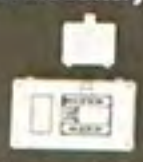

304; 2023-05-05 17:08

305; 2023-05-05 17:10

306; 2023-05-05 17:11

QUICK START GUIDE

Insert the battery



As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "ON/OFF" key to turn it on .

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight-item".

Calibration

1. Press and hold the "MODE" key until the display reads "CAL", then release the key.

2. Press the "MODE" key again and the display will show the required calibration weight.

3.Place the weight on the center of the platform.

4. The LCD display will read "PASS" and then return to normal weighing mode.

307; 2023-05-05 17:17


308; 2023-05-05 17:18

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "ON/OFF" key to turn it on .

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight-item".

Calibration

1. Press and hold the "MODE" key until the display reads "CAL", then release the key.

2. Press the "MODE" key again and the display will show the required calibration weight.

3.Place the weight on the center of the platform.

4. The LCD display will read "PASS" and then return to normal weighing mode.

309; 2023-05-05 17:19

310; 2023-05-05 17:32

QUICK START GUIDE

Insert the battery

Weighing

Taring

Calibration

311; 2023-05-05 17:34


312; 2023-05-05 17:41

Insert the battery

As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "ON/OFF" key to turn it on .

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

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Calibration

1. Press and hold the "MODE" key until the display reads "CAL", then release the key.

2. Press the "MODE" key again and the display will show the required calibration weight.

3.Place the weight on the center of the platform.

4. The LCD display will read "PASS" and then return to normal weighing mode.

313; 2023-05-05 17:49


314; 2023-05-05 17:51

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "ON/OFF" key to turn it on .

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight-item".

Calibration

1. Press and hold the "MODE" key until the display reads "CAL", then release the key.

2. Press the "MODE" key again and the display will show the required calibration weight.

3.Place the weight on the center of the platform.

4. The LCD display will read "PASS" and then return to normal weighing mode.

315; 2023-05-05 17:52

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "ON/OFF" key to turn it on .

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight-item".

Calibration

1. Press and hold the "MODE" key until the display reads "CAL", then release the key.

3. Place the weight on the center of the platform.

2. Press the "MODE" key again and the display will show the required calibration weight.

4. The LCD display will read "PASS" and then return to normal weighing mode.

316; 2023-05-05 17:53

317; 2023-05-06 11:35

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "ON/OFF" key to turn it on .

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight-item".

Calibration

1. Press and hold the "MODE" key until the display reads "CAL", then release the key.

2. Press the "MODE" key again and the display will show the required calibration weight.

3. Place the weight on the center of the platform.

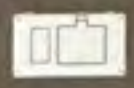
4. The LCD display will read "PASS" and then return to normal weighing mode.

318; 2023-05-06 11:44

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.



Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "ON/OFF" key to turn it on .

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight item".

Calibration

1. Press and hold the "MODE" key until the display reads "CAL", then release the key.

2. Press the "MODE" key again and the display will show the required calibration weight.

3.Place the weight on the center of the platform.

4. The LCD display will read "PASS" and then return to normal weighing mode.

319; 2023-05-06 11:54

320; 2023-05-06 11:58


Thank you! Your actions save lives and keep our
321; 2023-05-06 12:02

322; 2023-05-06 12:10


QUICK START GUIDE
Insert the battery
Weighing
Taring
Calibration
T
M
323; 2023-05-06 12:16


324; 2023-05-06 12:33

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "ON/OFF" key to turn it on .

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight-item".

Calibration

1. Press and hold the "MODE" key until the display reads "CAL", then release the key.

2. Press the "MODE" key again and the display will show the required calibration weight.

3.Place the weight on the center of the platform.

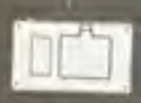
4. The LCD display will read "PASS" and then return to normal weighing mode.

325; 2023-05-06 12:41

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.



Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "ON/OFF" key to turn it on.

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight item".

Calibration

1. Press and hold the "MODE" key until the display reads "CAL", then release the key.

2. Press the "MODE" key again and the display will show the required calibration weight.

3. Place the weight on the center of the platform.

4. The LCD display will read "PASS" and then return to normal weighing mode.

326; 2023-05-06 12:47


327; 2023-05-06 13:23

328; 2023-05-06 13:25

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "ON/OFF" key to turn it on .

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight-item".

Calibration

1. Press and hold the "MODE" key until the display reads "CAL", then release the key.

2. Press the "MODE" key again and the display will show the required calibration weight.

3. Place the weight on the center of the platform.

4. The LCD display will read "PASS" and then return to normal weighing mode.

9967

T M

329; 2023-05-06 13:26


330; 2023-05-06 13:29

331; 2023-05-06 13:30

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery slot's "+" "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press the ON/OFF key to turn it on.

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight item".

Calibration

1. Press and hold the 'MODE' key until the display reads "CAL", then release the key.

2. Press the 'MODE' key again and the display will show the required calibration weight.

3.Place the weight on the center of the platform.

4. The LCD display will read "PASS" and then return to normal weighing mode.

5255

T M


333; 2023-05-06 13:45

QUICK START GUIDE

Insert the battery

As shown, open the battery cover, place battery based on battery "dot"s "+", "-" polarity indication.

Put on the battery cover.

Weighing

Place the scale on a leveled surface & press "ON/OFF" key to turn it on.

Place the item to be weighed on the surface and wait until the reading is stable.

Taring

Place the "tare item" on the platform. Press "TARE" key and wait until the LCD displays zero.

Scale can now be used for weighing. Add the "net-weight item".

Calibration

1. Press and hold the "MODE" key until the display reads "CAL", then release the key.

2. Press the "MODE" key again and the display will show the required calibration weight.

3. Place the weight on the center of the platform.

4. The LCD display will read "PASS" and then return to normal weighing mode.

8072

T M ⏻

334; 2023-05-06 14:02

442; 2023-05-07 09:39