 <p>CLAYTON COUNTY Water AUTHORITY</p> <p>1600 Battle Creek Road Morrow, GA 30260</p>	JONESBORO & NOAH'S ARK RPS IMPROVEMENTS	
	ADDENDUM 4	
	Date	Friday, October 13, 2023
	Bid Number	2023-WP-13
	Pre-Bid Meeting	Tuesday, September 19, 2023 at 10:00 a.m. local time
Bid Opening	Wednesday, October 18, 2023 at 10:00 a.m. local time	
ADDENDUM MUST BE SIGNED AND INCLUDED IN YOUR BID SUBMITTAL		

SECTION 00 91 13.04
ADDENDUM 4

PART 1 – REVISIONS TO THE PROJECT MANUAL

The following REVISIONS shall be incorporated into the PROJECT MANUAL for the above-referenced project:

- A. Section 26 29 23 – Low-Voltage Variable Frequency Motor Controllers
 - 1. Part 2.01.B, revised as follows: “The Contractor shall obtain the VFDs from one manufacturer. ~~who shall also manufacture and assemble the enclosure and major equipment components including, but not limited to the VFD unit and bypass starters.~~ The manufacturer shall have ~~five~~ **ten** years minimum of experience in the manufacture of similar units and shall have a general distribution to the electrical trade. ~~Subcontracting of wiring and/or third-party assembly is not acceptable.~~”
 - 2. Part 2.01.C, revised as follows: “The VFDs shall be manufactured by Schneider Electric (Square D), Rockwell Automation (Allen-Bradley), Danfoss, Toshiba, ~~or~~ Yaskawa, **or Applied Industrial Controls.** “
 - 3. Part 2.01, insert paragraph E as follows: “***The VFD unit shall be the Square D Altivar 600 Series, Allen-Bradley PowerFlex 750 series, Danfoss FC-202 Aqua Series, Toshiba AS3/W7 series, or Yaskawa U1000.***”
 - 4. Part 2.03, delete paragraph A.

All other terms and conditions of the PROJECT MANUAL remain unchanged.

PART 2 – REVISIONS TO THE DRAWINGS

The following REVISIONS shall be incorporated into the DRAWINGS for the above-referenced project:

- A. Drawing A01 – See Attachment A

All other terms and conditions of the DRAWINGS remain unchanged.

PART 3 – QUESTIONS AND ANSWERS

Q1: Per Section 02 83 00 – Lead-Based Paint Abatement, Paragraph 1.01, “Contractor shall provide all labor, equipment, tools, materials and permits required to test for, remove and dispose of lead-based paint materials required to complete the work”. Section 00 73 00 - Supplementary Conditions states that upon written request, the Asbestos and Lead-Based Paint Surveys for Noah’s Ark RPS and Jonesboro RPS will be made available for review. The reports were supposedly attached to Addendum 3. In reviewing the information attached to Addendum 3, there are proposals to do the initial survey but no reports. Please provide the reports if available.

A1: Asbestos and lead-based survey reports are attached to this Addendum.

Q2: Drawing C014, Note 1 states "GRADING REQUIRES A NET OF APPROXIMATELY 2,428 CY OF CUT." Please clarify if the contractor needs to haul off the dirt from site, or we can stockpile it on site.

A2: Per Section 31 00 01 – Earthwork, Paragraph 2.01 G, “...Excess material and materials considered unsuitable for reuse by the engineer shall be removed from the site for off-site disposal.” Contractor shall remove and dispose of excess material offsite.

Q3: Drawing C071 calls out detail Cd-Hb. We cannot find detail Cd-Hb on drawing C079 (erosion and sediment control). Please provide detail.

A3: The Cd-Hb detail from the Manual for Erosion and Sediment Control in Georgia is attached.

Q4: Specification 02 83 00 – Lead-Based Paint Abatement calls for the contractor to remove and dispose of lead-based paint materials as required to complete the work; please indicate the lead paint removal and show it in the drawings. Provide surveys, reports, tests, and illustrations for Asbestos and lead paint removal.

A4: Asbestos and lead-based survey reports are attached to this Addendum.

Q5: Drawing E011 & ED3 showing EMH-1, EMH-2, EMH-3, EMH-4 as cast in place manholes. Please clarify if the contractor can furnish and install pre-cast EMH instead of cast in place.

A5: See Note 2 for Detail E-33-0102 on Dwg ED3.

- Q6: General Conditions, Article 7 - Contractor's Responsibilities, Paragraph 7.08 Permits states, "...Contractor shall obtain and pay for all construction permits and licenses." Please clarify if any other permits are required other than building, mechanical & electrical permits, demolition and land disturbance.**
- A6: The project requires building and trade permits from Clayton County Community Development and land disturbance activity and grading permits from Clayton County Transportation and Development for each site. There may be permits associated with lead-based paint abatement that the Contractor will be responsible for. The project has also been approved by Georgia Environmental Protection Division; copies of the GA EPD permit approval will be provided to the winning bidder.
- Q7: Per Section 07 52 00 – Built-up Bituminous Roofing, Paragraph 2.02, a Four-ply, hot asphalt-applied modified bitumen membrane system is required. However, Soprema has proposed an alternative option, the Colply Adhesive, which comes with a 20-year warranty with tested meeting the following per ANSI/FM 4474, Would the Colply Adhesive 1-ply roof be an acceptable alternative?**
- A7: No. A 1-ply, cold applied roof system is not acceptable.
- Q8: Drawing A01 room finish schedule call for containment liner located at the floor. Please supply the specific product needed for the containment liner.**
- A8: See revision to Drawing A01 in Part 2 of this Addendum.
- Q9: Not all manufacturers named in Section 26 29 23 – Low-Voltage Variable Frequency Motor Controllers will build the panels as specified. Request to revise Section to allow subcontracting of wiring and/or third-party assembly as long as the specification is met.**
- A9: See specification edits in Part 1.
- Q10: In reviewing the contract, please confirm that the Owner will take generator ship of all Hazardous materials found on either of the sites referenced above.**
- A10: Per Section 02 83 00 – Lead-based Paint Abatement, Paragraph 1.04 B.1, "...Contractor shall comply with all applicable laws, ordinances, rules, and regulations of federal, state, and local authorities pertaining to removal, handling, storage, transportation, and disposal of lead waste materials."
- Q11: Under specification section 02 83 00 (LBP) Lead Base Paint section 1.03 Definitions, you ask for a (CIH) Certified Industrial Hygienist to be hired by the contractor to oversee the abatement work. This requirement seems excessive for lead base paint abatement. On past projects that just have Lead Base Paint did not require a CIH. CIH were only used in chemical, biological, ergonomic hazards, like chromium, cadmium, zinc, etc. or asbestos. The Rules and Regulation set by the State of Georgia EPA will mandate what certification is necessary for Lead Base Paint abatement. Please confirm.**
- A11: The cost to provide a CIH as required in the Specifications shall be included in the bid.

Q12: Has the Owner obtained the necessary right of way permits for installation of new utilities shown in the right of way on plan C053?

A12: The drawings have been reviewed by Clayton County Transportation and Development and grading permits have been issued.

Q13: This project we are replacing a minimal number of spools and fittings that are tied into an existing line. The layout is not designed to isolate the new piping from the existing piping. If testing against the existing line could cause a failed test. Consideration should be given to this. Minimal testing should be considered under these conditions. Please clarify.

A13: No pressure testing of proposed piping against existing piping, fittings, or valves will be required. Acceptance of the proposed piping, fittings, and valves installation will be based on their performance and functionality during the 14-Day Operating Test Period described in Section 01 91 13 – General Commissioning Requirements.

Q14: If a Bidder has been previously approved by the CCWA as a Responsible Bidder per section 00 45 13, do we have to resubmit this information again?

A14: Bidder must submit all required information listed in Section 00 21 13 – Instructions to Bidders and Section 00 45 13 – Bidders Qualifications.

Q15: The finish schedule in the drawings calls for the floors in the proposed electrical buildings to be a containment liner. No product specification for containment liners is included in Section 09 90 00 – Painting. What product should be used for the containment liner/floors?

A15: See response to Question Q8, this Addendum.

PART 4 – ATTACHMENTS

- A. Drawing A01 Exhibit.
- B. Asbestos and Lead Based Paint Survey for Noah's Ark RPS, ECS Southeast, LLP, November 2022.
- C. Asbestos and Lead Based Paint Survey for Jonesboro RPS, ECS Southeast, LLP, November 2022.
- D. Hay-bale Check Dam detail.

END OF SECTION

Acknowledgment of receipt of this addendum must be signed and included in your bid submittal.

Company Name	
Signature	
Date	

ROOM FINISH SCHEDULE

NO.	DESCRIPTION	FLOOR		BASE		WALL-NORTH		WALL-EAST		WALL-SOUTH		WALL-WEST		CEILING			REMARKS
		SUBSTRATE	FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	HEIGHT	
300-NOAH'S ARK ELECTRICAL BUILDING																	
300	ELECTRICAL ROOM	CONC	SEALER	CMU	PT	CMU	PT	CMU	PT	CMU	PT	CMU	PT	CONC	---	12'-0"	
500-JONESBORO ELECTRICAL BUILDING																	
500	ELECTRICAL ROOM	CONC	SEALER	CMU	PT	CMU	PT	CMU	PT	CMU	PT	CMU	PT	CONC	---	12'-0"	

ROOM FINISH LEGEND **ROOM FINISH SCHEDULE NOTES:** SEALER SHALL BE AS SPECIFIED IN SECTION 03 35 00 - CONCRETE FINISHES.

- ACT ACOUSTICAL CEILING TILE
- CL CONTAINMENT LINER
- CONC CONCRETE
- CMU CONCRETE MASONRY UNITS
- ES EXPOSED STRUCTURE
- MFR MANUFACTURER
- PT PAINT

ADDENDUM NO. 4	DATE 2023.1013	CLAYTON COUNTY WATER AUTHORITY CLAYTON, GA	HAZEN JOB NUMBER 32457-027	REFER TO CONTRACT DRAWING NUMBER A01
ATTACHMENT NO. A	BY BCJ	JONESBORO AND NOAH'S ARK RPS IMPROVEMENTS	CONTRACT NUMBER 2023-WP-13	SHEET 1 OF 1

ASBESTOS AND LEAD BASED PAINT SURVEY



NOAH'S ARK RSP

1865 NOAH'S ARK ROAD
JONESBORO, GEORGIA 30236

ECS PROJECT NO. 49:18720

FOR: HAZEN AND SAWYER

NOVEMBER 30, 2022





November 30, 2022

Mr. Chas Goblisch
Hazen and Sawyer
1300 Altmore Avenue
Suite D-520
Atlanta, Georgia 30342
CGoblisch@hazenandsawyer.com

ECS Project No. 49:18720

Reference: Asbestos and Lead Based Paint Survey, Noah's Ark RSP, 1865 Noah's Ark Road, Jonesboro, Georgia

Dear Mr. Goblisch:

ECS Southeast, LLP (ECS) is pleased to provide Hazen and Sawyer with the results of the above referenced Asbestos and Lead Based Paint Survey performed at Noah's Ark RSP located at 1865 Noah's Ark Road in Jonesboro, Georgia. This report summarizes our observations, analytical results, findings, and recommendations related to the work performed. The work described in this report was performed by ECS in general accordance with the Scope of Services described in ECS Proposal Number 49:33782P and the terms and conditions of the agreement authorizing those services.

ECS appreciates this opportunity to provide Hazen and Sawyer with our services. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS Southeast, LLP

Jenny Clark, REM
Environmental Department Manager
jclark@ecslimited.com
404-640-9257

Justin Roth, CHMM
Environmental Principal
jroth@ecslimited.com
843-654-4448

EXECUTIVE SUMMARY

The subject property is developed with a water treatment facility located at 1865 Noah's Ark Road in Jonesboro, Clayton County, Georgia. The two pump station buildings consist of approximately 5,800 square feet of space in total. The buildings were reportedly constructed in 1974 and 1996 respectively. ECS understands the buildings are scheduled for demolition.

The purpose of the Asbestos and Lead Based Paint Survey was to identify asbestos-containing materials (ACMs) and lead-paint that may be present within the building materials scheduled to be impacted by the planned demolition activities.

Asbestos Survey

On November 18, 2022, Ms. Jenny Clark, REM, an accredited inspector, performed the asbestos assessment. Bulk samples were submitted to EMSL Analytical, Inc. (EMSL) in Smyrna, Georgia for analysis via Polarized Light Microscopy (PLM) in accordance with the current EPA-600 methodology.

A total of 22 bulk samples from nine homogeneous areas were submitted to the laboratory of which 28 layers were analyzed. Based on the laboratory analysis of the bulk samples collected during the survey, one of the materials were reported to contain asbestos above the regulatory limit.

The following material was reported as asbestos-containing:

- Roofing Mastic - Building #1 / Upper Roof

The following materials were reported as non-asbestos containing:

- Window Glass and Glazing;
- Exterior Stucco Window Sill;
- Gasket Material;
- Tank Insulation Material;
- Exterior Wall Panel;
- Built-up Roofing - Upper and Lower Roof; and
- Exterior Window Caulk.

Due to inaccessibility or the destructive means that asbestos sampling requires, unseen ACMs may remain within the building hidden behind inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, sub-grade sealants, flooring located below underlayments, areas behind exterior walls, pipe trenches, and subsurface utilities, etc.

If suspect materials are discovered during construction activities, they should be presumed to contain asbestos and be treated as ACMs or be sampled immediately upon discovery and prior to disturbance for asbestos content by a certified asbestos inspector in accordance with 29 Code of Federal Regulations (CFR) 1926.1101.

Lead Paint Survey

On November 18, 2022, Ms. Jenny Clark, REM, an accredited inspector, performed the Lead Paint Survey. Paint chip samples were submitted to EMSL Analytical, Inc. (EMSL) in Kernersville, North Carolina for analysis via Flame Atomic Absorption Spectroscopy (AAS) in accordance with EPA Method SW 3050B/7000B.

A total of nine paint chips were collected. Based on the findings of the lead survey, detectable concentrations of lead were identified on some paints and surface coatings.

The executive summary is an integral portion of this report, however, ECS recommends the report be read in its entirety.

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1.0 SITE DESCRIPTION

The subject property is developed with a water treatment facility located at 1865 Noah's Ark Road in Jonesboro, Clayton County, Georgia. The two pump station buildings consist of approximately 5,800 square feet of space in total. The buildings were reportedly constructed in 1974 and 1996 respectively. The interior finishes include concrete floors, walls and ceilings. The exteriors are brick. Building #1 has a built-up roof on two roofing systems, upper and lower and Building #2 has a membrane roof.

2.0 PURPOSE

The purpose of the Asbestos and Lead Based Paint Survey was to identify asbestos-containing materials (ACMs) and lead-containing paint (LCP) which require special handling and/or disposal if disturbed during construction activities. The identification of ACMs require trained labor, regulated work practices, and special disposal. The identification of LCP requires disclosure to contractors and monitoring of lead exposure.

3.0 METHODOLOGY

ECS performed the authorized Scope of Services in general accordance with our proposal, standard industry practice(s) and methods specified by regulation(s) for the identification of ACMs and LCP.

3.1 Asbestos-Containing Materials

On November 18, 2022, Ms. Jenny Clark, REM, an EPA accredited inspector, performed the asbestos survey. The survey consisted of observing the accessible areas of the building for the presence of suspect materials which may contain asbestos. The survey involved detecting both friable materials (materials which can be pulverized or reduced to a powder by hand pressure when dry) and non-friable materials (materials which pose a hazard when sawn, sanded, drilled or pulverized). Homogeneous materials (based on material type, color, texture, etc.) were identified in during the survey.

The EPA National Emissions Standard for Hazardous Air Pollutants (NESHAP) requires a survey for asbestos prior to renovation or demolition. Renovation or demolition is defined under NESHAP as the removal of a load-bearing structure or member. On the basis of requirements under NESHAP for renovation activities, ECS conducted a limited survey for potential ACM. The ACM survey was limited in that we did not conduct demolition such as jack/sledge hammering to expose potentially concealed materials.

Samples were collected in general accordance with EPA Standard 40 CFR 763 Subpart E, Asbestos Hazard Emergency Response Act (AHERA) and OSHA Standard 29 CFR 1926.1101 Inspection Protocol. Multiple samples of each unique material were submitted. Samples were analyzed using "Positive Stop" methodology. If one sample of a homogeneous material is reported to contain asbestos, the remaining samples of that material are not analyzed. If one sample of a material from a homogeneous area was reported to contain greater than 1% asbestos, then by EPA definition, it was characterized as asbestos-containing material.



As per the regulations, samples were collected from random locations of each homogeneous area, with the material's number of samples based upon the following criteria:

- Thermal Insulation Materials (piping, breeching, boiler insulation, etc.) – A minimum of two (2) samples are required. Patch areas (less than 6 square or linear feet) may have one (1) sample collected.
- Surfacing Materials (plaster, fireproofing, etc.) – A minimum of seven (7) samples are to be taken for areas greater than 5,000 square feet; five (5) for areas greater than 1,000 square feet, but less than 5,000 square feet; three (3) for areas less than 1,000 square feet.
- Miscellaneous Materials (flooring, adhesives, roofing, wallboard, etc.) – A minimum of two (2) samples are required.

In order to determine if the suspect materials observed during the visual survey contained asbestos, representative bulk samples were collected and placed in sealed packages. Samples were collected during the survey and submitted to EMSL for analysis using the EPA recommended method of Polarized Light Microscopy (PLM) coupled with dispersion staining (Method No. EPA 600/M4-020-82, Dec. 1982). EMSL participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Their NVLAP accreditation number is 101048-1. Several of the samples were layered and analyzed as multiple samples. EPA regulations require that multiple samples of each homogeneous area be collected for laboratory analysis. The material type, sample location, and analytical results of each bulk sample are also summarized in the attached Asbestos Bulk Analysis report in **Appendices**.

During the survey, ECS attempted to identify suspect ACMs in readily accessible areas. However, due to the destructive means required to identify some materials, certain areas were deemed inaccessible (i.e. behind walls or sub grade materials) and were not surveyed for suspect ACMs. Unidentified suspect ACMs may be located in these and/or other inaccessible areas.

3.2 Lead in Paint and Surface Coatings

The lead paint survey was performed by collection of suspect lead paint chips to identify lead concentrations in painted surfaces.

The lead paint assessment was conducted utilizing the U.S. EPA definition of lead-based paint (LBP). Under this definition, painted surfaces which contain lead in concentrations equal to or greater than 0.5% lead by weight are classified as coated with LBP. Paints with concentrations of detectable levels of paint are considered LCPs. Activities which disturb LCPs and glazing (while not LBPs by the U.S. EPA definition) are regulated by OSHA (29 CFR 1926.62).

Because the current or proposed use of the property is not residential or child-occupied, the scope of the lead paint survey was not conducted in accordance with HUD Chapter 7 requirements. This representative survey included collecting paint chips from walls, windows, doors, and miscellaneous components.

4.0 RESULTS

The following is a summary of laboratory results, findings and observations.

4.1 Asbestos-Containing Materials

In total, 22 bulk samples from nine homogeneous areas were submitted to the laboratory of which 28 layers were analyzed. An Asbestos-Containing Material (ACM) is defined as any material containing more than one percent (>1%) asbestos as determined using the method specified in Appendix E, Subpart E, 40 CFR Part 763, Section 1, PLM. Materials are categorized by the U.S. EPA in the following categories:

- Friable ACMs are defined as any ACM that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. Non-friable ACMs are defined as any ACM that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.
- Category I non-friable ACM are listed as following: packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than one percent (>1%) asbestos.
- Category II non-friable ACM are listed as any material, excluding Category I non-friable ACM, containing more than one percent (>1%) asbestos.

Regulated Asbestos Containing Materials (RACM) are friable ACM or non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading or has crumbled, been pulverized, or reduced to powder in the course of renovation and/or demolition operations.

EMSL submitted a signed final laboratory report to ECS on November 22, 2022. One of the bulk samples submitted for analysis were reported to contain asbestos in detectable concentrations. A complete list of the sampled materials submitted for analysis and sample locations are located in the Appendix of this report. Representative photographs of collected samples are also located in the Appendix of this report.

Summary of Asbestos-Containing Materials Identified

Sample ID	Location	Material Description	Analytical Results	Category
RM-2	Building #1 - Upper Roof	Roofing Mastic	3% Chrysotile	Category I non-friable

4.2 Suspect or Assumed Asbestos-Containing Materials

Due to the inaccessibility or the destructive means that asbestos sampling requires, additional suspect ACMs may remain within the building hidden behind inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, sub-grade sealants, flooring located below underlayments, areas behind exterior walls, pipe trenches, and subsurface utilities, etc. These areas were deemed inaccessible and were not assessed.

If these materials are discovered during construction activities, they should be presumed to contain asbestos and be treated as ACMs or be sampled immediately upon discovery and prior to disturbance for asbestos content by a certified asbestos inspector in accordance with 29 CFR 1926.1101.

Based upon our past experience in the identification of ACMs in similarly constructed buildings, the following additional suspect ACMs may also be located in inaccessible areas of the structure:

- Within the piping systems or equipment not accessed below grade.

4.3 Lead in Paint and Surface Coatings

Paint and surface coatings which contain detectable concentrations of lead considered "lead-containing paints". Since OSHA has no specific action level for lead in paint, all paint on the site found to have a measurable concentration of lead should be assumed to be lead containing. Work performed which may disturb lead-containing paint is regulated under OSHA as referenced under 29 CFR 1926.62. A total of 164 readings were collected during the survey, including calibration readings. Paint and other surface coatings which are defined by applicable regulation as lead-based paints are summarized in the table below and photographs of lead-based paint identified are located in the Appendix.

Paint and surface coatings which contain detectable concentrations of lead are considered LCPs. Since OSHA has no specific action level for lead in paint, all paint on the site found to have a measurable concentration of lead should be assumed to be lead-containing. Work performed which may disturb LCP is regulated under OSHA as referenced under 29 CFR 1926.62. A total of nine paint chip samples were collected during the survey. Paint and other surface coatings that were sampled are summarized in the table below and photographs of sampling locations are located in the Appendix.

Summary of Paint Chip Results

Sample ID	Color	Substrate	Component	Lead Concentration (%) by Weight
PC-1 / Bldg #1	Yellow	Concrete	Wall	<0.0080%
PC-2 / Bldg #1	Light Blue	Metal	Equipment - Base	<0.0080%
PC-3 / Bldg #1	Brown	Concrete	Floor	0.026%
PC-4 / Bldg #1	Yellow	Concrete	Ceiling	<0.0080%
PC-5 / Bldg #1	Light Blue	Metal	Equipment - Piping	0.015%
PC-6 / Bldg #2	Gray	Metal	Equipment - Base	0.017%
PC-7 / Bldg #2	Light Blue	Metal	Equipment - Base	<0.0080%

Sample ID	Color	Substrate	Component	Lead Concentration (%) by Weight
PC-8 / Bldg #2	Yellow	Concrete	Wall	<0.0080%
PC-9 / Bldg #2	Light Blue	Metal	Equipment - Piping	<0.0080%

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS

Based on our understanding of the purpose of the Asbestos and Lead Based Paint Survey, the results of laboratory analysis, and our findings and observations, ECS presents the following recommendations.

5.1 Asbestos-Containing Materials

ECS recommends where a material type has been identified as asbestos-containing that other materials with similar color, texture, age and size throughout the building's interior and exterior be assumed to contain asbestos. Please refer to Section 4.1 for a complete list of building materials that were reported positive for asbestos and to Section 4.2 for materials that were assumed to contain asbestos.

Suspect ACMs not observed due to inaccessibility or not sampled due to the destructive means that sampling would require may also be encountered during construction activities. At the time of the survey, only limited destructive means were used to locate or sample suspect ACMs; therefore, additional suspect ACMs may remain within inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, exterior areas, sub-grade sealants, flooring located below underlayments, vapor barriers, pipe trenches and other subsurface utilities, etc. If additional suspect ACMs are uncovered which were not accessible during this survey, it is recommended that these materials either be assumed to contain asbestos or be sampled prior to disturbance upon discovery for asbestos content by an asbestos inspector in accordance with 29 CFR 1926.1101.

5.2 Lead in Paint and Surface Coatings

Based on the findings of the lead survey, detectable concentrations of lead were identified on some paints and surface coatings.

The presence of lead is a concern primarily when conditions exist where it may be inhaled or ingested. Regardless of the analytical results of a material, all painted and/or glazed surfaces may still contain concentrations of lead in the paint, which when disturbed, may generate lead dust greater than the Permissible Exposure Limit (PEL) of 50 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) as an 8-hour Time Weighted Average (TWA) established by the OSHA "Lead Exposure in Construction Rule (29 CFR 1926.62)."

The OSHA standard gives no guidance on acceptable levels of lead in paint at which no exposure to airborne lead (above the action level) would be expected. Rather, OSHA defines airborne concentrations, and references specific types of work practices and operations from which a lead hazard may be generated (reference 29 CFR 1926.62, section d). Environmental and personnel monitoring should be conducted during any removal/demolition process (as appropriate) to verify that actual personal exposures are below the PEL of 50 $\mu\text{g}/\text{m}^3$ as an 8-hour TWA. Under OSHA requirements, the contractor performing renovation work will be required to conduct this monitoring and follow applicable requirements under 29 CFR 1926.62 if disturbing LCP.

Destructive actions to paint containing detectable levels of lead (e.g. component removal, demolition, sanding, grinding, burning, paint preparation, etc.) will require the contractor comply with the standards of the OSHA regulation 29 CFR 1926.62, including but not limited to training, initial exposure monitoring, the use of personal protective equipment, and medical surveillance. The OSHA standard gives no guidance on acceptable levels of lead in paint at which no exposure to airborne lead (above the action level) would be expected. Rather, OSHA defines airborne concentrations, and references specific types of work practices and operations from which a lead hazard may be generated (reference 29 CFR 1926.62, section d). Environmental and personnel monitoring should be conducted during any removal/demolition process (as appropriate) to verify that actual personal exposures are below the PEL as an 8-hour TWA.

6.0 LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

Our recommendations are in part based on federal, state, and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies, any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.

Appendix I: Site Photographs



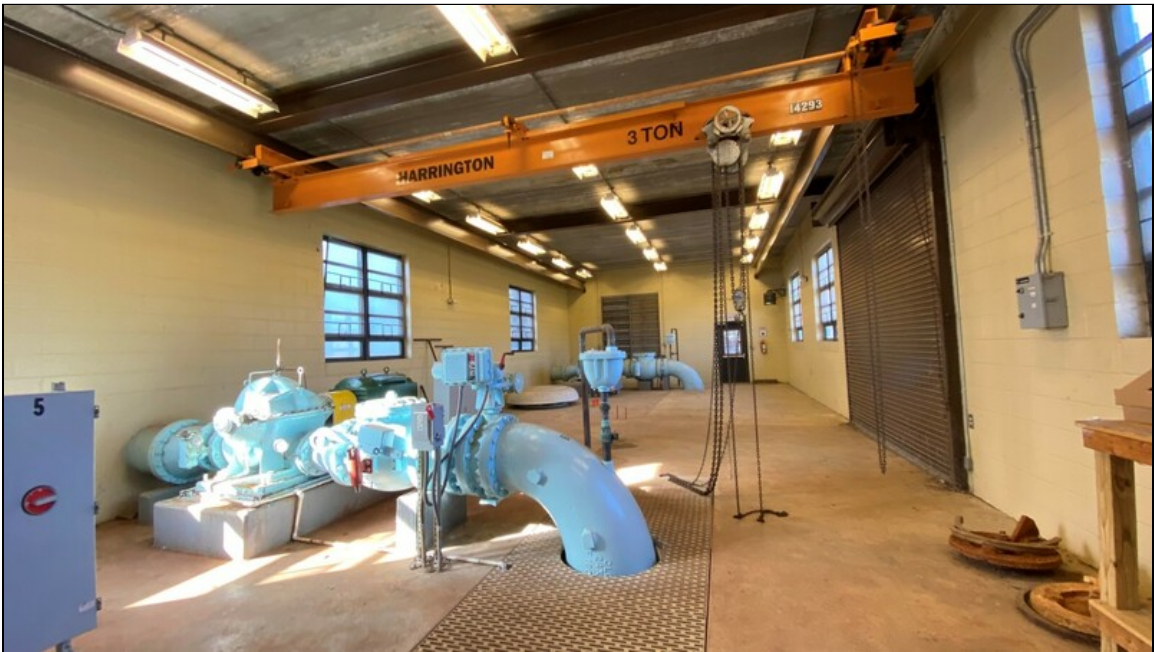
1 - View of Noah's Ark Building 1



2 - View of Noah's Ark Building 2



3 - View of the interior of Noah's Ark - Building 1



4 - View of the interior of Noah's Ark - Building 2



5 - View of the wall panels



6 - View of the tank insulation



7 - View of the roof of Building 1



8 - View of the roof of Building 2



9 - View of yellow paint on CMU wall

Appendix II: Asbestos Bulk Sample Results



EMSL Analytical, Inc.

2205 Corporate Plaza Parkway SE, Suite 200 Smyrna, GA 30080

Tel/Fax: (770) 956-9150 / (770) 956-9181

<http://www.EMSL.com> / atlantalab@emsl.com

EMSL Order: 072208277

Customer ID: ENCS55

Customer PO:

Project ID:

Attention: Jenny Clark
ECS Southeast, LLP
1200 Woodruff Road
Suite H-12
Greenville, SC 29607

Phone: (864) 987-1610

Fax: (864) 987-1615

Received Date: 11/18/2022 12:05 PM

Analysis Date: 11/21/2022

Collected Date:

Project: 18720

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
WG-1 072208277-0001	Window Glazing - Bldg. #1 - Window	Clear Non-Fibrous Homogeneous	HA: 1	100% Non-fibrous (Other)	None Detected
WG-2 072208277-0002	Window Glazing - Bldg. #1 - Window	Clear Non-Fibrous Homogeneous	HA: 1	100% Non-fibrous (Other)	None Detected
WS-1 072208277-0003	Window Sill - Bldg. #1 - Exterior Window	Gray Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
WS-2 072208277-0004	Window Sill - Bldg. #1 - Exterior Window	Gray Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
G-1 072208277-0005	Gasket - Bldg. #1 - Blue Equip	Brown Fibrous Homogeneous	HA: 3	90% Cellulose 10% Non-fibrous (Other)	None Detected
G-2 072208277-0006	Gasket - Bldg. #1 - Blue Equip	Brown Fibrous Homogeneous	HA: 3	90% Cellulose 10% Non-fibrous (Other)	None Detected
TI-1-Layer 1 072208277-0007	Tank Insulation - Bldg. #1 - Tank 1	Blue Non-Fibrous Homogeneous	HA: 4	5% Min. Wool 95% Non-fibrous (Other)	None Detected
TI-1-Layer 2 072208277-0007A	Tank Insulation - Bldg. #1 - Tank 1	Tan Non-Fibrous Homogeneous	HA: 4	20% Min. Wool 80% Non-fibrous (Other)	None Detected
TI-2-Layer 1 072208277-0008	Tank Insulation - Bldg. #1 - Tank2	Blue Non-Fibrous Homogeneous	HA: 4	5% Min. Wool 95% Non-fibrous (Other)	None Detected
TI-2-Layer 2 072208277-0008A	Tank Insulation - Bldg. #1 - Tank2	Tan Non-Fibrous Homogeneous	HA: 4	20% Min. Wool 80% Non-fibrous (Other)	None Detected
WP-1 072208277-0009	Wall Panel - Bldg. #1 - Ext.- Under Windows	White Non-Fibrous Homogeneous	HA: 5	100% Non-fibrous (Other)	None Detected
WP-2 072208277-0010	Wall Panel - Bldg. #1 - Ext.- Under Windows	White Non-Fibrous Homogeneous	HA: 5	100% Non-fibrous (Other)	None Detected

Initial report from: 11/21/2022 11:52:10



EMSL Analytical, Inc.

2205 Corporate Plaza Parkway SE, Suite 200 Smyrna, GA 30080

Tel/Fax: (770) 956-9150 / (770) 956-9181

<http://www.EMSL.com> / atlantalab@emsl.com

EMSL Order: 072208277
Customer ID: ENCS55
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
RM-1 072208277-0011	Roof Mastic - Bldg. #1 - Upper Roof	Black Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
			HA: 6		
RM-2 072208277-0012	Roof Mastic - Bldg. #1 - Upper Roof	Black Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
			HA: 6		
BUR-1-Mastic 072208277-0013	Built-Up Roofing - Bldg. #1 - Upper Roof	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 7		
BUR-1-Felt 072208277-0013A	Built-Up Roofing - Bldg. #1 - Upper Roof	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
			HA: 7		
BUR-2-Mastic 072208277-0014	Built-Up Roofing - Bldg. #1 - Upper Roof	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 7		
BUR-2-Felt 072208277-0014A	Built-Up Roofing - Bldg. #1 - Upper Roof	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
			HA: 7		
BUR-3-Mastic 072208277-0015	Built-Up Roofing - Bldg. #1 - Lower Roof	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 7		
BUR-3-Felt 072208277-0015A	Built-Up Roofing - Bldg. #1 - Lower Roof	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
			HA: 7		
BUR-4-Mastic 072208277-0016	Built-Up Roofing - Bldg. #1 - Lower Roof	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 7		
BUR-4-Felt 072208277-0016A	Built-Up Roofing - Bldg. #1 - Lower Roof	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
			HA: 7		
GM-1 072208277-0017	Gasket Material - Bldg. #2 - Equip	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 8		
GM-2 072208277-0018	Gasket Material - Bldg. #2 - Equip	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 8		
WS-3 072208277-0019	Window Sill - Bldg. #2 - Exterior Window	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 2		
WS-4 072208277-0020	Window Sill - Bldg. #2 - Exterior Window	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 2		

Initial report from: 11/21/2022 11:52:10



EMSL Analytical, Inc.

2205 Corporate Plaza Parkway SE, Suite 200 Smyrna, GA 30080

Tel/Fax: (770) 956-9150 / (770) 956-9181

<http://www.EMSL.com> / atlantalab@emsl.com

EMSL Order: 072208277
Customer ID: ENCS55
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
WC-1 <small>072208277-0021</small>	Window Caulk - Bldg. #2 - Exteroir	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 9		
WC-2 <small>072208277-0022</small>	Window Caulk - Bldg. #2 - Exteroir	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 9		

Analyst(s)

Violdah Richardson (28)

Violdah Richardson, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc Smyrna, GA NVLAP Lab Code 101048-1

Initial report from: 11/21/2022 11:52:10



EMSL ANALYTICAL, INC. LABORATORY PRODUCTS TRAINING

EMSL Order Number / Lab Use Only

072208277

EMSL Analytical, Inc. 2205 Corporate Plaza Southeast Suite 200 Smyrna, GA 30080 PHONE: (770) 956-9150 EMAIL: atlantab@emsl.com

Customer Information and Billing Information section containing fields for Customer ID, Company Name, Contact Name, Street Address, City, State, Zip, Country, and Phone for both customer and billing.

Project Information section containing Project Name/No., EMSL LIMS Project ID, US State where samples collected, State of Connecticut (CT) must select project location, Sampled By Name, Sampled By Signature, Turn-Around-Time (TAT), and No. of Samples in Shipment.

Test Selection section containing checkboxes for PLM - Bulk (reporting limit), TEM - Bulk, and other tests like NIOSH 9002, NYS 198.1, etc.

Table with 4 columns: Sample Number, HA Number, Sample Location, and Material Description. Contains handwritten entries for samples like WG-1, WG-2, WS-1, WS-2, G-1, G-2, T1-1, T1-2, WP-1, WP-2.

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

Method of Shipment, Sample Condition Upon Receipt, and Date/Time fields for Remunished by and Received by.

Controlled Document - Asbestos Bulk R5 03/19/2021 and AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

Appendix III: Lead Laboratory Analytical Results

**EMSL Analytical, Inc.**

706 Gralin Street, Kernersville, NC 27284

Phone/Fax: (336) 992-1025 / (336) 992-4175

<http://www.EMSL.com>greensborolab@emsl.com

EMSL Order: 022208685

CustomerID: ENCS55

CustomerPO:

ProjectID:

Attn: **Jenny Clark**
ECS Southeast, LLP
1200 Woodruff Road
Suite H-12
Greenville, SC 29607

Phone: (864) 987-1610
 Fax: (864) 987-1615
 Received: 11/21/2022 09:00 AM
 Collected: 11/18/2022

Project: 18720

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>Lead Concentration</i>
PC-1	022208685-0001	11/18/2022	11/22/2022	.377 g	<0.0080 % wt
PC-2	022208685-0002	11/18/2022	11/22/2022	.251 g	<0.0080 % wt
PC-3	022208685-0003	11/18/2022	11/22/2022	.2722 g	0.026 % wt
PC-4	022208685-0004	11/18/2022	11/22/2022	.2952 g	<0.0080 % wt
PC-5	022208685-0005	11/18/2022	11/22/2022	.2628 g	0.015 % wt
PC-6	022208685-0006	11/18/2022	11/22/2022	.1146 g	<0.017 % wt
PC-7	022208685-0007	11/18/2022	11/22/2022	.2578 g	<0.0080 % wt
PC-8	022208685-0008	11/18/2022	11/22/2022	.3082 g	<0.0080 % wt
PC-9	022208685-0009	11/18/2022	11/22/2022	.3113 g	<0.0080 % wt

James Cole, Laboratory Manager
 or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

* Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC AIHA LAP, LLC-ELLAP Accredited #102564

Initial report from 11/23/2022 08:42:38

EMSL Order Number / Lab Use Only

82285

EMSL ANALYTICAL, INC. LABORATORY PRODUCTS TRAINING

Customer Information	Customer ID:	Billing ID:
	Company Name: ECS Southeast LLP	Company Name: ECS Southeast LLP
	Contact Name: Jenny Clark	Billing Contact: Jenny Clark
	Street Address: 1200 Woodruff Road Suite H-12	Street Address: 1200 Woodruff Road, Suite H-12
	City, State, Zip: Greenville SC 29607 Country: US	City, State, Zip: Greenville SC 29607 Country: US
	Phone: 4046409257	Phone: 4046409257
Email(s) for Report: jclark@ecslimited.com		Email(s) for Invoice:

Project Information

Project Name/No: 18720

EMSL LIMS Project ID: (If applicable, EMSL will provide)

US State where samples collected: GA

State of Connecticut (CT) must select project location: Commercial (Taxable) Residential (Non-Taxable)

Sampled By Name: Jenny Clark

Sampled By Signature: *Jenny Clark*

No. of Samples in Shipment: 4

Turn-Around-Time (TAT)

3 Hour 6 Hour 24 Hour 32 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT	SELECTION	
CHIPS <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> ppm (mg/kg) <input type="checkbox"/> mg/cm ²	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)	<input checked="" type="checkbox"/>	
Reporting Limit based on a minimum 0.25g sample weight	SW 846-8010D	ICP-OES	0.0004% (4ppm)	<input type="checkbox"/>	
AIR	NIOSH 7082	Flame Atomic Absorption	4µg/filter	<input type="checkbox"/>	
	NIOSH 7300M / NIOSH 7303M	ICP-OES	0.5µg/filter	<input type="checkbox"/>	
	NIOSH 7300M / NIOSH 7303M	ICP-MS	0.05µg/filter	<input type="checkbox"/>	
WIPE <input type="checkbox"/> ASTM <input type="checkbox"/> NON-ASTM	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	<input type="checkbox"/>	
If no box is checked, non-ASTM Wipe is assumed	SW 846-8010D	ICP-OES	10µg/wipe	<input type="checkbox"/>	
TCLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>	
	SW 846-1311 / SW 846-8010D*	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>	
SPLP	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>	
	SW 846-1312 / SW 846-8010D*	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>	
TTLC	22 CCR App. II, 7000B	Flame Atomic Absorption	40mg/kg (ppm)	<input type="checkbox"/>	
	22 CCR App. II, SW 846-8010D*	ICP-OES	2mg/kg (ppm)	<input type="checkbox"/>	
STLC	22 CCR App. II, 7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>	
	22 CCR App. II, SW 846-8010D*	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>	
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)	<input type="checkbox"/>	
	SW 846-8010D*	ICP-OES	2mg/kg (ppm)	<input type="checkbox"/>	
Wastewater	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>	
	Unpreserved <input type="checkbox"/> Preserved with HNO3 <input type="checkbox"/> PH<2	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water	Unpreserved <input type="checkbox"/> Preserved with HNO3 <input type="checkbox"/> PH<2	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>	
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	<input type="checkbox"/>	
Other:				<input type="checkbox"/>	

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
PC-1	Bldg #1 Wall	Yellow	11/18/2022
PC-2	Equip. Base	Light blue	
PC-3	Floor	Brown	
PC-4	Ceiling	Yellow	
PC-5	Pipe	Light blue	

Method of Shipment: *drop off*

Relinquished by: *Jenny Clark*

Date/Time: *11/18/2022 12:00PM*

Sample Condition Upon Receipt:

Received by: *SS NS*

Date/Time: *11/18/22 12:05*

Date/Time: *11/21/22 9:00*

Appendix IV: Certifications/ Licenses

The Environmental Institute

Jennifer Clark

Social Security Number - XXX-XX-4341

ECS Souteast LLP - 1281 Kennestone Circle, Suite 200, Marietta, GA 30066

*Has completed 8 hours of coursework and satisfactorily
passed an examination that meets all criteria required for
EPA/AHERA/ASHARA (TSCA Title II) Approved Reaccreditation*

Asbestos in Buildings: Inspector & Management Planner Refresher

January 18, 2022

Course Date

18780

Certificate Number

January 18, 2022

Examination Date

January 17, 2023

Expiration Date



Darryl L. Watson

Darryl L. Watson - Principal Instructor

(Approved by the ABIH Certification Maintenance Committee for 1 CM point - Approval #11-583)
(FL Provider Registration #FL49-0001342 - Inspector Ref. Course #0002805 - Mgmt. Plan Ref. Course #0002806)
TEI - 1395 S. Marietta Parkway SE - Building 100, Suite 124- Marietta, GA 30067
Phone: 770-427-3600 - Website: www.tei-atl.com

The Environmental Institute

Jennifer Clark

Social Security Number - XXX-XX-4341
ECS Southeast LLP - 1281 Kenneston Circle, Suite 200 - Marietta, Georgia 30066

Has completed 8 hours of coursework and satisfactorily passed the hands-on skills assessment and an examination that meets training criteria in accordance with requirements for Lead-Based Paint Activities in Target Housing and Child-Occupied Facilities as regulated by Georgia DNR/EPD Chapter 391-3-24 and U. S. EPA TSCA 40 CFR Part 745 for the refresher course titled

Lead Inspector Refresher

August 18, 2021

Course Date

1986

Certificate Number

August 18, 2021

Examination Date


August 17, 2023

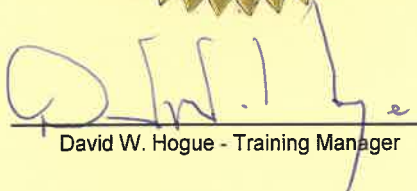
Georgia Expiration Date

August 17, 2024

EPA Expiration Date




Bonnie B. Maurras - Principal Instructor


David W. Hogue - Training Manager

(Approved by the ABIH Certification Maintenance Committee for 1 CM point - Approval #11-584)

TEI - 1395 S. Marietta Parkway SE - Building 100, Suite 124 - Marietta, GA 30067

Phone: 770-427-3600 - Website: www.tei-atl.com

(State of Georgia Accredited - Certification No. 20-0799-006SR - September 21, 1999)

ASBESTOS AND LEAD PAINT SURVEY



JONESBORO RSP

7700 OLD MORROW ROAD
JONESBORO, GEORGIA 30236

ECS PROJECT NO. 49:18721

FOR: HAZEN AND SAWYER

NOVEMBER 30, 2022





November 30, 2022

Mr. Chas Goblisch
Hazen and Sawyer
1300 Althmore Avenue
Suite D-520
Atlanta, Georgia 30342
CGoblisch@hazenandsawyer.com

ECS Project No. 49:18721

Reference: Asbestos and Lead Paint Survey, Jonesboro RSP, 7700 Old Morrow Road, Jonesboro, Georgia

Dear Mr. Goblisch:

ECS Southeast, LLP (ECS) is pleased to provide Hazen and Sawyer with the results of the above referenced Asbestos and Lead Paint Survey performed at Jonesboro RSP located at 7700 Old Morrow Road in Jonesboro, Clayton County, Georgia. This report summarizes our observations, analytical results, findings, and recommendations related to the work performed. The work described in this report was performed by ECS in general accordance with the Scope of Services described in ECS Proposal Number 49:33783P and the terms and conditions of the agreement authorizing those services.

ECS appreciates this opportunity to provide Hazen and Sawyer with our services. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS Southeast, LLP

Jenny Clark, REM
Environmental Department Manager
jclark@ecslimited.com
404-640-9257

Justin Roth, CHMM
Environmental Principal
jroth@ecslimited.com
843-654-4448

EXECUTIVE SUMMARY

The subject property is developed with a water treatment facility located at 7700 Old Morrow Road in Jonesboro, Clayton County, Georgia. The pump station building consists of approximately 2,800 square feet of space and was reportedly constructed in 1991. ECS understands the building is scheduled for demolition.

The purpose of the Asbestos and Lead Paint Survey was to identify asbestos-containing materials (ACMs) and lead-paint that may be present within the building materials scheduled to be impacted by the planned demolition activities.

Asbestos Survey

On November 18, 2022, Ms. Jenny Clark, REM, an accredited inspector, performed the asbestos assessment. Bulk samples were submitted to EMSL Analytical, Inc. (EMSL) in Smyrna, Georgia for analysis via Polarized Light Microscopy (PLM) in accordance with the current EPA-600 methodology.

A total of eight bulk samples from four homogeneous areas were submitted to the laboratory of which eight layers were analyzed. Based on the laboratory analysis of the bulk samples collected during the survey, none of the materials were reported to contain asbestos above the regulatory limit.

The following materials were reported as non asbestos containing:

- Exterior window caulk;
- Exterior sealant;
- Roofing mastic; and
- Built-up roofing material.

Due to inaccessibility or the destructive means that asbestos sampling requires, unseen ACMs may remain within the building hidden behind inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, sub-grade sealants, flooring located below underlayments, areas behind exterior walls, pipe trenches, and subsurface utilities, etc.

If suspect materials are discovered during construction activities, they should be presumed to contain asbestos and be treated as ACMs or be sampled immediately upon discovery and prior to disturbance for asbestos content by a certified asbestos inspector in accordance with 29 Code of Federal Regulations (CFR) 1926.1101.

Lead Paint Survey

On November 18, 2022, Ms. Jenny Clark, REM, an accredited inspector, performed the Lead Paint Survey. Paint chip samples were submitted to EMSL Analytical, Inc. (EMSL) in Kernersville, North Carolina for analysis via Flame Atomic Absorption Spectroscopy (AAS) in accordance with EPA Method SW 3050B/7000B.

A total of six paint chips were collected. Based on the findings of the lead survey, detectable concentrations of lead were identified on some paints and surface coatings.

The executive summary is an integral portion of this report, however, ECS recommends the report be read in its entirety.

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Appendix III: Lead Laboratory Analytical Results

Appendix IV: Certifications/Licenses

1.0 SITE DESCRIPTION

The property is developed with a water treatment facility located at 7700 Old Morrow Road in Jonesboro, Clayton County, Georgia. The pump station building consists of approximately 2,800 square feet of space and was reportedly constructed in 1991. The interior finishes include concrete floors, walls and ceilings. The exterior is brick with a built-up roof.

2.0 PURPOSE

The purpose of the Asbestos and Lead Paint Survey was to identify asbestos-containing materials (ACMs) and lead-containing paint (LCP) which require special handling and/or disposal if disturbed during construction activities. The identification of ACMs require trained labor, regulated work practices, and special disposal. The identification of LCP requires disclosure to contractors and monitoring of lead exposure.

3.0 METHODOLOGY

ECS performed the authorized Scope of Services in general accordance with our proposal, standard industry practice(s) and methods specified by regulation(s) for the identification of ACMs and LCP.

3.1 Asbestos-Containing Materials

On November 18, 2022, Ms. Jenny Clark, REM, an EPA accredited inspector, performed the asbestos survey. The survey consisted of observing the accessible areas of the building for the presence of suspect materials which may contain asbestos. The survey involved detecting both friable materials (materials which can be pulverized or reduced to a powder by hand pressure when dry) and non-friable materials (materials which pose a hazard when sawn, sanded, drilled or pulverized). Homogeneous materials (based on material type, color, texture, etc.) were identified in during the survey.

The EPA National Emissions Standard for Hazardous Air Pollutants (NESHAP) requires a survey for asbestos prior to renovation or demolition. Renovation or demolition is defined under NESHAP as the removal of a load-bearing structure or member. On the basis of requirements under NESHAP for renovation activities, ECS conducted a limited survey for potential ACM. The ACM survey was limited in that we did not conduct demolition such as jack/sledge hammering to expose potentially concealed materials.

Samples were collected in general accordance with EPA Standard 40 CFR 763 Subpart E, Asbestos Hazard Emergency Response Act (AHERA) and OSHA Standard 29 CFR 1926.1101 Inspection Protocol. Multiple samples of each unique material were submitted. Samples were analyzed using "Positive Stop" methodology. If one sample of a homogeneous material is reported to contain asbestos, the remaining samples of that material are not analyzed. If one sample of a material from a homogeneous area was reported to contain greater than 1% asbestos, then by EPA definition, it was characterized as asbestos-containing material.

As per the regulations, samples were collected from random locations of each homogeneous area, with the material's number of samples based upon the following criteria:

- Thermal Insulation Materials (piping, breeching, boiler insulation, etc.) – A minimum of two (2) samples are required. Patch areas (less than 6 square or linear feet) may have one (1) sample collected.
- Surfacing Materials (plaster, fireproofing, etc.) – A minimum of seven (7) samples are to be taken for areas greater than 5,000 square feet; five (5) for areas greater than 1,000 square feet, but less than 5,000 square feet; three (3) for areas less than 1,000 square feet.
- Miscellaneous Materials (flooring, adhesives, roofing, wallboard, etc.) – A minimum of two (2) samples are required.

In order to determine if the suspect materials observed during the visual survey contained asbestos, representative bulk samples were collected and placed in sealed packages. Samples were collected during the survey and submitted to EMSL for analysis using the EPA recommended method of Polarized Light Microscopy (PLM) coupled with dispersion staining (Method No. EPA 600/M4-020-82, Dec. 1982). EMSL participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Their NVLAP accreditation number is 101048-1. Several of the samples were layered and analyzed as multiple samples. EPA regulations require that multiple samples of each homogeneous area be collected for laboratory analysis. The material type, sample location, and analytical results of each bulk sample are also summarized in the attached Asbestos Bulk Analysis report in **Appendices**.

During the survey, ECS attempted to identify suspect ACMs in readily accessible areas. However, due to the destructive means required to identify some materials, certain areas were deemed inaccessible (i.e. behind walls or sub grade materials) and were not surveyed for suspect ACMs. Unidentified suspect ACMs may be located in these and/or other inaccessible areas.

3.2 Lead in Paint and Surface Coatings

The lead paint survey was performed by collection of suspect lead paint chips to identify lead concentrations in painted surfaces.

The lead paint assessment was conducted utilizing the U.S. EPA definition of lead-based paint (LBP). Under this definition, painted surfaces which contain lead in concentrations equal to or greater than 0.5% lead by weight are classified as coated with LBP. Paints with concentrations of detectable levels of paint are considered LCPs. Activities which disturb LCPs and glazing (while not LBPs by the U.S. EPA definition) are regulated by OSHA (29 CFR 1926.62).

Because the current or proposed use of the property is not residential or child-occupied, the scope of the lead paint survey was not conducted in accordance with HUD Chapter 7 requirements. This representative survey included collecting paint chips from walls, windows, doors, and miscellaneous components.

4.0 RESULTS

The following is a summary of laboratory results, findings and observations.

4.1 Asbestos-Containing Materials

In total, eight bulk samples from four homogeneous areas were submitted to the laboratory of which eight layers were analyzed. An Asbestos-Containing Material (ACM) is defined as any material containing more than one percent (>1%) asbestos as determined using the method specified in Appendix E, Subpart E, 40 CFR Part 763, Section 1, PLM. Materials are categorized by the U.S. EPA in the following categories:

- Friable ACMs are defined as any ACM that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. Non-friable ACMs are defined as any ACM that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.
- Category I non-friable ACM are listed as following: packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than one percent (>1%) asbestos.
- Category II non-friable ACM are listed as any material, excluding Category I non-friable ACM, containing more than one percent (>1%) asbestos.

Regulated Asbestos Containing Materials (RACM) are friable ACM or non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading or has crumbled, been pulverized, or reduced to powder in the course of renovation and/or demolition operations.

EMSL submitted a signed final laboratory report to ECS on November 22, 2022. None of the bulk samples submitted for analysis were reported to contain asbestos in detectable concentrations. A complete list of the sampled materials submitted for analysis and sample locations are located in the Appendix of this report. Representative photographs of collected samples are also located in the Appendix of this report.

4.2 Suspect or Assumed Asbestos-Containing Materials

Due to the inaccessibility or the destructive means that asbestos sampling requires, additional suspect ACMs may remain within the building hidden behind inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, sub-grade sealants, flooring located below underlayments, areas behind exterior walls, pipe trenches, and subsurface utilities, etc. These areas were deemed inaccessible and were not assessed.

If these materials are discovered during construction activities, they should be presumed to contain asbestos and be treated as ACMs or be sampled immediately upon discovery and prior to disturbance for asbestos content by a certified asbestos inspector in accordance with 29 CFR 1926.1101.

Based upon our past experience in the identification of ACMs in similarly constructed buildings, the following additional suspect ACMs may also be located in inaccessible areas of the structure:

- Within the piping systems or equipment not accessed below grade.

4.3 Lead in Paint and Surface Coatings

Paint and surface coatings which contain detectable concentrations of lead considered "lead-containing paints". Since OSHA has no specific action level for lead in paint, all paint on the site found to have a measurable concentration of lead should be assumed to be lead containing. Work

performed which may disturb lead-containing paint is regulated under OSHA as referenced under 29 CFR 1926.62. A total of [164] readings were collected during the survey, including calibration readings. Paint and other surface coatings which are defined by applicable regulation as lead-based paints are summarized in the table below and photographs of lead-based paint identified are located in the Appendix.

Paint and surface coatings which contain detectable concentrations of lead are considered LCPs. Since OSHA has no specific action level for lead in paint, all paint on the site found to have a measurable concentration of lead should be assumed to be lead-containing. Work performed which may disturb LCP is regulated under OSHA as referenced under 29 CFR 1926.62. A total of six paint chip samples were collected during the survey. Paint and other surface coatings that were sampled are summarized in the table below and photographs of sampling locations are located in the Appendix.

Summary of Paint Chip Results

Sample ID	Color	Substrate	Component	Lead Concentration (%) by Weight
PC-1	Light Blue	Metal	Equipment - Piping	0.035%
PC-2	Yellow	Concrete/ CMU	Wall	<0.010%
PC-3	Red	Metal	Pipe	<0.020%
PC-4	Light Blue	Metal	Equipment - Base	<0.0080%
PC-5	Brown	Metal	Door Components	<0.039%
PC-6	Dark Yellow	Metal	CAT Equipment	<0.021%

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS

Based on our understanding of the purpose of the Asbestos and Lead Paint Survey, the results of laboratory analysis, and our findings and observations, ECS presents the following recommendations.

5.1 Asbestos-Containing Materials

None of the bulk samples submitted to EMSL were reported to contain detectable concentrations of asbestos. If additional suspect asbestos-containing materials are uncovered which were not accessible during this sampling event, it is recommended that these materials be sampled or tested immediately upon discovery for asbestos content by an asbestos inspector in accordance with 29 CFR 1926.1101.

5.2 Lead in Paint and Surface Coatings

Based on the findings of the lead survey, detectable concentrations of lead were identified on some paints and surface coatings.

The presence of lead is a concern primarily when conditions exist where it may be inhaled or ingested. Regardless of the analytical results of a material, all painted and/or glazed surfaces may still contain concentrations of lead in the paint, which when disturbed, may generate lead dust greater than the Permissible Exposure Limit (PEL) of 50 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) as an 8-hour Time Weighted Average (TWA) established by the OSHA "Lead Exposure in Construction Rule (29 CFR 1926.62)."

The OSHA standard gives no guidance on acceptable levels of lead in paint at which no exposure to airborne lead (above the action level) would be expected. Rather, OSHA defines airborne concentrations, and references specific types of work practices and operations from which a lead hazard may be generated (reference 29 CFR 1926.62, section d). Environmental and personnel monitoring should be conducted during any removal/demolition process (as appropriate) to verify that actual personal exposures are below the PEL of $50 \mu\text{g}/\text{m}^3$ as an 8-hour TWA. Under OSHA requirements, the contractor performing renovation work will be required to conduct this monitoring and follow applicable requirements under 29 CFR 1926.62 if disturbing LCP.

Destructive actions to paint containing detectable levels of lead (e.g. component removal, demolition, sanding, grinding, burning, paint preparation, etc.) will require the contractor comply with the standards of the OSHA regulation 29 CFR 1926.62, including but not limited to training, initial exposure monitoring, the use of personal protective equipment, and medical surveillance. The OSHA standard gives no guidance on acceptable levels of lead in paint at which no exposure to airborne lead (above the action level) would be expected. Rather, OSHA defines airborne concentrations, and references specific types of work practices and operations from which a lead hazard may be generated (reference 29 CFR 1926.62, section d). Environmental and personnel monitoring should be conducted during any removal/demolition process (as appropriate) to verify that actual personal exposures are below the PEL as an 8-hour TWA.

6.0 LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

Our recommendations are in part based on federal, state, and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies, any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.

Appendix I: Site Photographs



1 - View of Jonesboro RSP



2 - View of dark yellow paint on CAT equipment



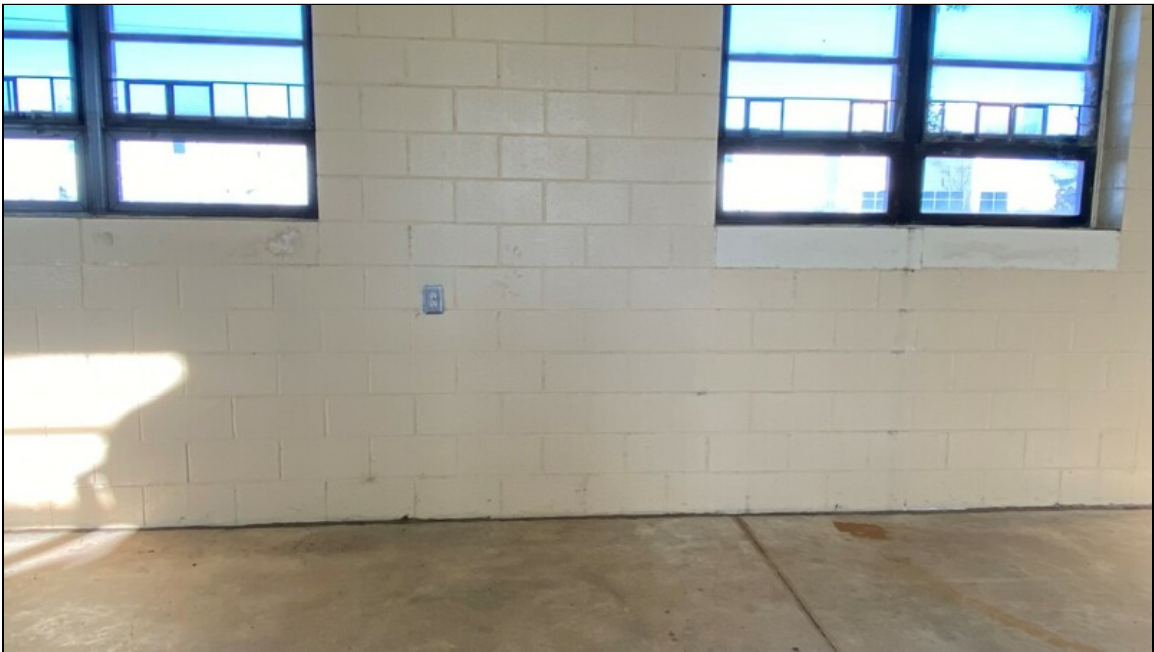
3 - View of blue paint on pipes



4 - View of red paint on pipes and blue paint on base of equipment



5 - View of the interior of the building



6 - View of yellow paint on CMU wall



7 - View of the roof

Appendix II: Asbestos Bulk Sample Results



EMSL Analytical, Inc.

2205 Corporate Plaza Parkway SE, Suite 200 Smyrna, GA 30080

Tel/Fax: (770) 956-9150 / (770) 956-9181

<http://www.EMSL.com> / atlantalab@emsl.com

EMSL Order: 072208305

Customer ID: ENCS55

Customer PO:

Project ID:

Attention: Jenny Clark
ECS Southeast, LLP
1200 Woodruff Road
Suite H-12
Greenville, SC 29607

Project: 18721

Phone: (864) 987-1610

Fax: (864) 987-1615

Received Date: 11/21/2022 8:00 AM

Analysis Date: 11/22/2022

Collected Date:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
WC-1 072208305-0001	Caulk - Exterior Windows	White Non-Fibrous Homogeneous	HA: 1	100% Non-fibrous (Other)	None Detected
WC-2 072208305-0002	Caulk - Exterior Windows	White Non-Fibrous Homogeneous	HA: 1	100% Non-fibrous (Other)	None Detected
S-1 072208305-0003	Sealant - Exterior	White Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
S-2 072208305-0004	Sealant - Exterior	White Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
RM-1 072208305-0005	Black Mastic - Roof	Black Non-Fibrous Homogeneous	HA: 3	20% Cellulose 80% Non-fibrous (Other)	None Detected
RM-2 072208305-0006	Black Mastic - Roof	Black Non-Fibrous Homogeneous	HA: 3	20% Cellulose 80% Non-fibrous (Other)	None Detected
BUR-1 072208305-0007	Built-Up Roofing - Roof	Black Non-Fibrous Homogeneous	HA: 4	3% Synthetic 97% Non-fibrous (Other)	None Detected
BUR-2 072208305-0008	Built-Up Roofing - Roof	Black Non-Fibrous Homogeneous	HA: 4	5% Synthetic 95% Non-fibrous (Other)	None Detected

Analyst(s)

Anthony Sanaie (4)

Kyle Rich (4)

Violedah Richardson, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc Smyrna, GA NVLAP Lab Code 101048-1

Initial report from: 11/22/2022 09:34:30



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

EMSL Analytical, Inc. / Lab Use Only

072208305

Customer Information	Customer ID: ENCS55	Billing ID:
	Company Name: ECS Southeast LLP	Company Name: ECS Southeast LLP
	Contact Name: Jenny Clark	Billing Contact: Jenny Clark
	Street Address: 1200 Woodruff Road, Suite H-12	Street Address: 1200 Woodruff Road, Suite H-12
	City, State, Zip: Greenville SC 29607 Country: US	City, State, Zip: Greenville SC Country:
	Phone: 4046409257	Phone: 4046409257
Email(s) for Report: jclark@ecslimited.com	Email(s) for Invoice: jclark@ecslimited.com	

Project Information

Project Name/No: 10721

EMSL LIMS Project ID: (If applicable, EMSL will provide)

US State where samples collected: GA

State of Connecticut (CT) must select project location: Commercial (Taxable) Residential (Non-Taxable)

Sampled By Name: Jenny Clark

Sampled By Signature: *Jenny Clark*

No. of Samples in Shipment: 8

Turn-Around-Time (TAT)

3 Hour 6 Hour 24 Hour 32 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

Test Selection

PLM - Bulk (reporting limit)

PLM EPA 600/R-93/116 (<1%)

PLM EPA NOB (<1%)

POINT COUNT

400 (<0.25%) 1,000 (<0.1%)

POINT COUNT w/ GRAVIMETRIC

400 (<0.25%) 1,000 (<0.1%)

NIOSH 9002 (<1%)

NYS 198.1 (Friable - NY)

NYS 198.6 NOB (Non-Friable - NY)

NYS 198.8 (Vermiculite SM-V)

TEM - Bulk

TEM - Bulk

TEM EPA NOB

NYS NOB 198.4 (Non-Friable-NY)

TEM EPA 600/R-93/116 w Milling Prep (0.1%)

Other Tests (please specify)

Positive Stop - Clearly Identified Homogeneous Areas (HA)

Sample Number	HA Number	Sample Location	Material Description
WC-1	1	Exterior Windows	caulk
WC-2	1	↓	↓
S-1	2	Exterior	sealant
S-2	2	↓	↓
RM-1	3	Roof	Black Mastic
RM-2	3	↓	↓
BUR-1	4	Roof	Built-up roofing
BUR-2	4	↓	↓

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

Method of Shipment: Drop-box

Sample Condition Upon Receipt:

Relinquished by: Jenny Clark Date/Time: 11/20/22 11:18am

Received by: *[Signature]* Date/Time: 11/21/22 8:00 AM

Controlled Document - Asbestos Bulk R5 03/18/2021

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

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are Incorporated Into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

Appendix III: Lead Laboratory Analytical Results



EMSL Analytical, Inc.

706 Gralin Street, Kernersville, NC 27284
Phone/Fax: (336) 992-1025 / (336) 992-4175
<http://www.EMSL.com> greensborolab@emsl.com

EMSL Order: 022208684
CustomerID: ENCS55
CustomerPO:
ProjectID:

Attn: **Jenny Clark**
ECS Southeast, LLP
1200 Woodruff Road
Suite H-12
Greenville, SC 29607

Phone: (864) 987-1610
Fax: (864) 987-1615
Received: 11/21/2022 09:00 AM
Collected: 11/18/2022

Project: 18721

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>Lead Concentration</i>
PC-1	022208684-0001	11/18/2022	11/22/2022	.2823 g	0.035 % wt
PC-2	022208684-0002	11/18/2022	11/22/2022	.1941 g	<0.010 % wt
PC-3	022208684-0003	11/18/2022	11/22/2022	.102 g	<0.020 % wt
PC-4	022208684-0004	11/18/2022	11/22/2022	.2605 g	<0.0080 % wt
PC-5	022208684-0005	11/18/2022	11/22/2022	.0509 g	<0.039 % wt
PC-6	022208684-0006	11/18/2022	11/22/2022	.0959 g	<0.021 % wt

James Cole, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.
* Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.
Samples analyzed by EMSL Analytical, Inc. Kernersville, NC AIHA LAP, LLC-ELLAP Accredited #102564

Initial report from 11/23/2022 08:44:19

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

8284

Customer Information	Customer ID:	Billing ID:
	Company Name: ECS Southeast LLP	Company Name: ECS Southeast LLP
	Contact Name: Jenny Clark	Billing Contact: Jenny Clark
	Street Address: 1200 Woodruff Road Suite H-12	Street Address: 1200 Woodruff Road, Suite H-12
	City, State, Zip: Greenville SC 29607 Country: US	City, State, Zip: Greenville SC 29607 Country: US
	Phone: 4046409257	Phone: 4046409257
Email(s) for Report: jclark@ecslimited.com	Email(s) for Invoice:	

Project Information

Project Name/No: 18721 Purchase Order:

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

Sampled By Name: Jenny Clark Sampled By Signature: Jenny Clark No of Samples In Shipment: 1

Turn-Around-Time (TAT): 3 Hour 6 Hour 24 Hour 32 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am

MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT	SELECTION	
CHIPS <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> ppm (mg/kg) <input type="checkbox"/> mg/cm ²	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)	<input checked="" type="checkbox"/>	
Reporting Limit based on a minimum 0.25g sample weight	SW 846-6010D	ICP-OES	0.0004% (4ppm)	<input type="checkbox"/>	
AIR	NIOSH 7082	Flame Atomic Absorption	4µg/filter	<input type="checkbox"/>	
	NIOSH 7300M / NIOSH 7303M	ICP-OES	0.5µg/filter	<input type="checkbox"/>	
	NIOSH 7300M / NIOSH 7303M	ICP-MS	0.05µg/filter	<input type="checkbox"/>	
WIPE <input type="checkbox"/> ASTM <input type="checkbox"/> NON-ASTM	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	<input type="checkbox"/>	
If no box is checked, non-ASTM Wipe is assumed	SW 846-6010D	ICP-OES	1.0µg/wipe	<input type="checkbox"/>	
TCPLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>	
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>	
SPLP	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>	
	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>	
TTLC	22 CCR App. II, 7000B	Flame Atomic Absorption	40mg/kg (ppm)	<input type="checkbox"/>	
	22 CCR App. II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)	<input type="checkbox"/>	
STLC	22 CCR App. II, 7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>	
	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>	
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)	<input type="checkbox"/>	
	SW 846-6010D*	ICP-OES	2mg/kg (ppm)	<input type="checkbox"/>	
Wastewater	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>	
	Unpreserved <input type="checkbox"/> Preserved with HNO ₃ <input type="checkbox"/> PH<2	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water	Unpreserved <input type="checkbox"/> Preserved with HNO ₃ <input type="checkbox"/> PH<2	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>	
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	<input type="checkbox"/>	
Other:				<input type="checkbox"/>	

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
PC-1	PIPE	LIGHT BLUE	11/10/2022
PC-2	WALL	YELLOW	↓
PC-3	PIPE	RED	
PC-4	EQUIPMENT BASE	LIGHT BLUE	
PC-5	DOOR FRAME	BROWN	

Method of Shipment: drop-off Sample Condition Upon Receipt: EMSL # 79US15787194

Relinquished by: Jenny Clark Date/Time: 11/10/2022 12:00pm Received by: NS Date/Time: 11/18/22 12:05 PM

Relinquished by: Date/Time: Received by: Date/Time: 11/21/22 9:00

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

Appendix IV: Certifications/ Licenses

The Environmental Institute

Jennifer Clark

Social Security Number - XXX-XX-4341

ECS Souteast LLP - 1281 Kennestone Circle, Suite 200, Marietta, GA 30066

*Has completed 8 hours of coursework and satisfactorily
passed an examination that meets all criteria required for
EPA/AHERA/ASHARA (TSCA Title II) Approved Reaccreditation*

Asbestos in Buildings: Inspector & Management Planner Refresher

January 18, 2022

Course Date

18780

Certificate Number

January 18, 2022

Examination Date

January 17, 2023

Expiration Date



Darryl L. Watson

Darryl L. Watson - Principal Instructor

(Approved by the ABIH Certification Maintenance Committee for 1 CM point - Approval #11-583)
(FL Provider Registration #FL49-0001342 - Inspector Ref. Course #0002805 - Mgmt. Plan Ref. Course #0002806)
TEI - 1395 S. Marietta Parkway SE - Building 100, Suite 124- Marietta, GA 30067
Phone: 770-427-3600 - Website: www.tei-atl.com

The Environmental Institute

Jennifer Clark

Social Security Number - XXX-XX-4341
ECS Southeast LLP - 1281 Kenneston Circle, Suite 200 - Marietta, Georgia 30066

Has completed 8 hours of coursework and satisfactorily passed the hands-on skills assessment and an examination that meets training criteria in accordance with requirements for Lead-Based Paint Activities in Target Housing and Child-Occupied Facilities as regulated by Georgia DNR/EPD Chapter 391-3-24 and U. S. EPA TSCA 40 CFR Part 745 for the refresher course titled

Lead Inspector Refresher

August 18, 2021

Course Date

1986

Certificate Number

August 18, 2021

Examination Date


August 17, 2023

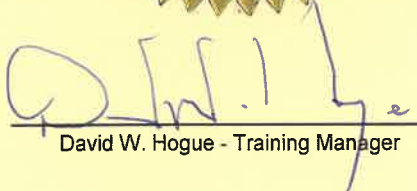
Georgia Expiration Date

August 17, 2024

EPA Expiration Date




Bonnie B. Maurras - Principal Instructor


David W. Hogue - Training Manager

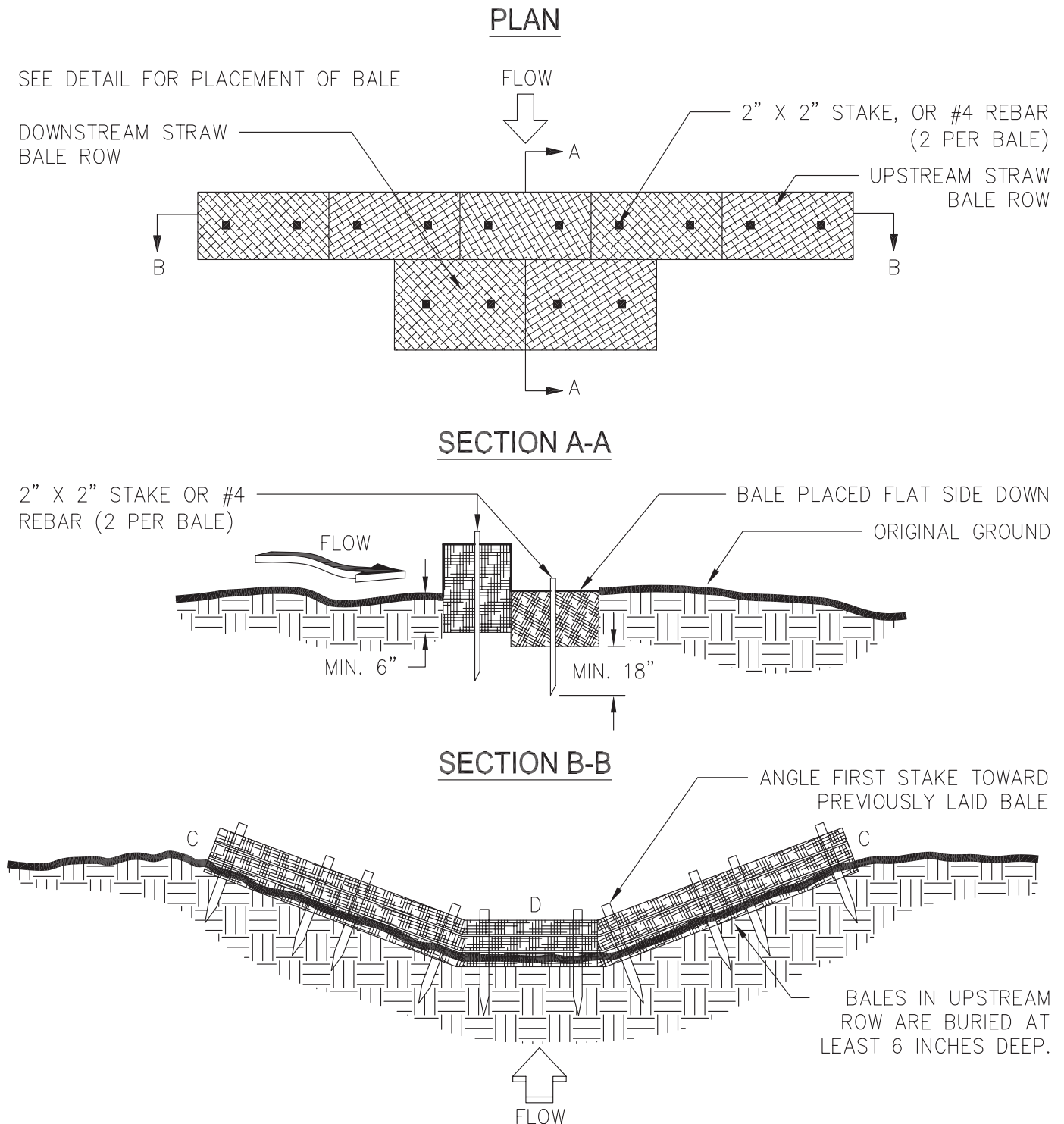
(Approved by the ABIH Certification Maintenance Committee for 1 CM point - Approval #11-584)

TEI - 1395 S. Marietta Parkway SE - Building 100, Suite 124 - Marietta, GA 30067

Phone: 770-427-3600 - Website: www.tei-atl.com

(State of Georgia Accredited - Certification No. 20-0799-006SR - September 21, 1999)

TYPICAL STRAW BALE CHECK DAM



NOTES:

1. BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. REMOVE #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.
3. POINT C OF SECTION B-B SHOULD ALWAYS BE HIGHER THAN POINT D.
4. **STRAW-BALE CHECK DAMS SHALL NOT BE USED WHERE THE DRAINAGE AREA EXCEEDS ONE ACRE.**

Figure 6-12.3