







From the Desk of Nelson Miles

34004 9th Avenue South A5 Federal Way, Washington 98003 Telephone (253) 952-6717 email nmiles@oriones.net

Hazardous Material Survey Report

ORION Project 020-0277

JULY 31, 2020

Verna Curry, MS V Environmental PO Box 819 Hayden, Idaho 83835 (253) 939-9369

RE:

Osborn Elementary School Demolition

225 Central Avenue

Leavenworth, Washington 98826

Dear Mrs Curry,

The purpose of this report is to present the results of a hazardous material survey performed on July 16 and 17, 2020 at the subject location referenced above. This survey was conducted in general accordance with the terms of the agreement between ORION Environmental and V Environmental of Idaho (owner's representative) authorizing us to perform this service. We understand that this survey was requested for future demolition of the building. State laws require hazards be identified before structures or components are impacted as part of renovation or demolition activities.

The survey was designed to identify asbestos containing materials (ACM), lead-containing paint (LCP), Polychlorinated Biphenyls (PCBS) and Mercury (Hg)-containing components. This survey was conducted by Industrial Hygienists with appropriate accreditations and experiences.

Professionally Yours,

ORION Environmental Services, Inc.

Carole Seng, Environmental Scientist Certified AHERA Building Inspector

July 31, 2020

Nate Reynolds, IH Technician

Certified AHERA Building Inspector

July 31, 2020

Nelson Miles, Industrial Hygienist Certified AHERA Building Inspector Certified Lead Paint Risk Assessor July 31, 2020



Hazardous Materials Survey Report

Osborn Building Demolition
Cascade School District

225 Central Avenue Leavenworth, Washington 98826

July 31, 2020 ORION Project Number 020-0277



Prepared for:

V Environmental

Prepared by

ORION Environmental Services Federal Way, Washington

Osborn Elementary School



Hazardous Materials Demolition Survey

The purpose of this hazardous materials survey is to support the proposed demolition of Osborn Elementary School located at 225 Central Avenue in Leavenworth, Washington. The survey was performed on July 16 and 17, 2020. Our scope of services included collection and analysis of suspected asbestos-containing materials (ACM) and suspected lead-containing paint, and identification, by visual inspection of polychlorinated biphenyl (PCB)-containing fluorescent light ballasts (FLBs), and mercury (Hg)-containing light tubes or thermostat/switches.

Upon completion of the survey and sample analyses, the following information are our findings:

- Asbestos-containing materials (ACM) None
- Lead-containing paint (main themes) Cabinets in Rooms 5, 6 and 7
- PCB-containing ballasts None
- Potential Mercury (Hg)-containing light tubes 637
- Hg switches/thermostats None

Inaccessible locations included a sealed utilidor that is presumed to contain asbestos pipe insulation.

This summary is intended for introductory purposes only. We recommend a thorough reading of the complete report.

Table of Contents

1.0 INTRODUCTION	
1.1 Building Information	1
1.2 Scope of Services	2
1.3 Limitation of the Assessment	3
2.0 ASBESTOS SURVEY METHODOLOGY	
2.1 Survey Methodology	3
2.2 Sampling and Sample Documentation	3-4
2.3 Laboratory Analysis	4
3.0 LEAD PAINT SURVEY METHODOLOGY	
3.1 General	4-5
3.2 NITION Instrument	5
3.3 Calibration	5
4.0 REGULATORY OVERVIEW	
4.1 Asbestos	5-6
4.2 Lead	6-8
4.3 PCB	8-9
4.4 Fluorescent Light Bulbs	9
5.0 LIMITATIONS	
General	9
6.0 CONCLUSIONS AND RECOMENDATIONS	
General	9
ATTACHMENTS	
 Asbestos Summary Lead Paint Summary PCBs and Fluorescent Fixtures Summary 	



Hazardous Materials Demolition Survey

1.0 INTRODUCTION

ORION Environmental Services, Inc. (OES) was hired by V Environmental of Idaho (Owner's Representative) to conduct a hazardous material survey regarding materials and components that may be impacted during demolition. The purpose of this survey is to support the proposed demolition of the building by evaluating the presence of hazardous materials at the subject location, and to provide this evaluation to V Environmental and the Cascade School District. OES' assessment was conducted on July 16 and 17, 2020 and was performed in accordance with federal, state and local regulatory requirements. The assessment was conducted by Carole Seng and Nate Reynolds of OES and their accreditations can be found as an attachment to this report.

1.1 Building Information



The John H. Osborn Elementary School is a masonry-constructed, single-story commercial building built in 1955 which approximately 25,000 square feet will be impacted during demolition of the building. The building was used as a public school by the Cascade School District and is now permanently closed. The only known renovation is the addition of the multi-purpose room which was built in 1983, along with the roof, exterior siding and mechanical equipment being updated. Interior wall systems are comprised primarily of wallboard with skim coat texture in some locations. Flooring consists of vinyl flooring and concrete. Heating is by force air HVAC with piping covered with fiberglass and hard fittings. Lighting includes incandescent and fluorescent fixtures. The roof is constructed of metal over wood.

There is a utilidor underneath the building that was inaccessible at the time of the assessment.



Hazardous Materials Demolition Survey

1.2 Scope of Services

- a. Collection samples of suspected ACM and suspected LCP;
- b. Analysis of those samples at a laboratory selected by ORION;
- c. Identification, by visual inspection, of PCB-containing FLBs, and Hg-containing light tubes or thermostats; and
- d. Preparation of this report.

Our scope of services did not include:

- a. Disassembly of electrical panels or other machinery;
- b. Investigation of areas with access restrictions due to locked rooms (utilidor)
- c. Investigation of hazardous materials other than ACM, LCP, PCB-containing FLBs, and Hgcontaining light tubes or thermostats.
- d. Investigation of non-building materials; or

Within the scope of services

- The asbestos survey was conducted in general accordance with the, "Good Faith" asbestos survey requirements in the Washington Administrative Code (WAC) 296-62-07721 (Communication of Hazards to Employees) as required by Washington State Department of Occupational Safety Health (DOSH) and regionally by the Northwest Clean Air Agency (NWCAA) for buildings or building sections that are to be renovated and/or demolished.
- The lead survey was conducted in general accordance with WAC 296-155-17605 regarding the identification of lead as it applies to all construction work where an employee may occupationallyexposed during construction activities.
- The visual examination of PCB-containing FLB and Hg-containing light tubes was conducted to identify potential hazards regulated by Washington State Department of Ecology (DOE) WAC 173-303 and Washington State Department of Occupational Safety and Health (DOSH) WAC 296-841.

1.3 Limitation of the Assessment

This targeted assessment was limited to building components that would be impacted regarding renovation and demolition activities. The conclusions within this report are professional opinions based solely upon visual site observations and interpretations of analytical data as described in this report.

Osborn Elementary School



Hazardous Materials Demolition Survey

Typical construction techniques can render portions of the building inaccessible. As a result, additional ACBM may be present in inaccessible areas (e.g., ground or components beneath the concrete slab). Suspect ACM, LCP and other hazardous materials within inaccessible areas should be presumed until characterized.

The opinions presented herein apply to the site conditions existing at the time of the investigation and interpretation of current regulation pertaining to asbestos and lead. Opinions and recommendations provided herein may not apply to future conditions that may exist at the site. Regulatory requirement in effect at the time of the work should be verified prior to any work that impacts hazardous materials. This report represents the finding of this survey only and is not intended to establish scope or contractual terms to hazardous material abatement.

2.0 ASBESTOS SURVEY METHODOLOGY

This section describes the sampling methodology. Supporting documentation provided within the survey reports incudes materials summary tables, photographs, laboratory analytical repots, chain of custody forms, etc.

2.1 Survey Methodology

A "walk-through" inspection of accessible areas was conducted to identify suspect ACBM and PACM. The asbestos survey was performed by AHERA-certified building inspectors in accordance with a sampling protocol appropriate for the demolition of the garage. The inspectors' AHERA certifications are provided in the Appendices. The sampling protocol was modeled after 40 CFR 763.86 and DOSH regulation (WAC 296.62.07721). The approximate quantity of materials was obtained from field measurements.

2.2 Sampling and Sample Documentation

Suspect ACBM was grouped into homogeneous sampling areas and categorized as TSI, surfacing material, or miscellaneous material. The sampling plan included, at a minimum, the collection and analysis of samples as follows:

Thermal System Insulation

- In a distributive manner, a minimum of three samples of each homogeneous area that was not PACM
- At least one bulk sample from each homogeneous area of patched TSI if the patch was less than
 6 square feet.

Surfacing Material

 In a distributive manner, a minimum of three samples collected from each homogeneous area that was less than 1,000 square feet



Hazardous Materials Demolition Survey

- A minimum of five samples collected from each homogeneous area that was greater than 1,000 square feet but less than or equal to 5,000 square feet.
- A minimum of seven samples collected from each homogeneous area that was greater than 5,000 square feet.

Miscellaneous Material

• In a distributive manner as deemed sufficient by the AHERA Building Inspector. At least one sample was collected of each suspect miscellaneous material not PACM.

Non-Suspect Materials

According to 40 CFR 763-86(4), sampling of the following materials are not required where the accredited inspector has deemed the materials to be fiberglass, foam glass, rubber or other recognized non-ACBM.

Samples were collected by carefully removing small portions of the suspect material with a sharp knife or other hand tool suitable to the materials being sampled. Each sample was placed in a labeled plastic container immediately after collection. Sample containers were then placed in a large re-sealable plastic bag for transportation to the laboratory. The sampling instrument was wiped with a clean moist cloth to decontaminate the tool and minimize the potential release of asbestos fibers or contamination of the subsequent samples. Data pertinent to each sample (e.g., date, sample number, material description, and material category) was recorded on a field data sheet.

2.3 Laboratory Analysis

Asbestos bulk samples and chain-of-custody submittal sheets were delivered Batta Laboratory of Delaware, who are accredited by the National Voluntary Laboratory Accreditation Program (NVLAP); accreditation no. 101032-0. As specified in 40 CFR Chapter I (1-1-87 edition) Part 763, Subpart F, Appendix A, each sample was analyzed using PLM/dispersion staining techniques, in accordance with EPA Method 600/R-93/116). The detection limit for this type of analysis is approximately one percent (by volume). Materials containing more than one percent asbestos are considered to ACBM. BATTA performs stratified Point Count Method (400-point count) analysis of any materials initially determined by PLM to less than 10 percent asbestos.

3.0 LEAD PAINT SURVEY METHODOLOGY

3.1 General

The survey was conducted using a NITON XLp300A X-ray fluorescence (XRF) instrument. The purpose of the assessment was to identify the presence of lead in the paint for components being impacted or to identify painted surfaces that may be impacted as a result of renovation, demolition, upgrades and

Osborn Elementary School



Hazardous Materials Demolition Survey

repairs. Testing was performed on representative main-theme painted components with the intent of ascertaining the presence of lead-based paint above specified regulatory action levels of any measurable concentration. If lead-based paint was found, the survey would identify architectural components and their respective lead concentrations as positive or negative.

3.2 How the Instrument Works

The XRF directs high-energy X-rays into a surface. These high-energy rays strike atoms in the surface, causing electrons to be ejected from their orbits. Characteristic X-ray energy is emitted when another electron fills the void in the shell. The emitted energy is detected by the XRF instrument and converted to a quantitative measure. For the lead atom, characteristic frequencies are emitted from the K-and L-shells, its two innermost electron orbits. Energy emitted from these shells (energy bands) are referred to as K X-rays and L X-rays respectively. The length of each test can vary based on the strength of the radioactive source.

Testing was performed by state-accredited lead paint inspectors and lead paint risk assessor who are trained and licensed in the use of the NITON XRF. At no time were the instrument used while non-trained personnel were in the area. This includes testing wall where individual may be on the opposite side.

3.3 Calibration

Calibration is performed both directly on bare substrates and on National Institute of Standards and Technology (NIST) standard reference material (SRM) films placed over the bare areas. The NIST SRM used during calibration has a lead level of 1.02 mg/cm². The measurements taken on the NIST SRM film (with the 1.02 mg/cm² lead level) placed over the bare areas were obtained to examine the performance of the instrument.

4.0 REGULATORY OVERVIEW

4.1 Asbestos

The NESHAP regulation for asbestos regulates asbestos fiber emissions and asbestos waste disposal practices. It requires the identification of existing asbestos-containing building materials (ACBM) according to friability prior to demolition or renovation activity. Friable is a material containing more than 1% asbestos that, when dry, may be crumbled, pulverized or reduced to powder by hand pressure.

The NESHAP regulation classifies ACBM as either regulated asbestos-containing material (RACM), Category I non-friable ACBM or Category II non-friable ACBM. RACM includes all friable ACBM, along with Category I non-friable ACBM that has become friable or will be or has been subjected to sanding, grinding,

Osborn Elementary School



Hazardous Materials Demolition Survey

cutting or abrading, and Category II non-friable ACBM that has a high probability of becoming or has become crumbled, pulverized, or reduced to power in the course of renovation or demolition activity. Category I non-friable ACBM are exclusively asbestos-containing packings, gaskets, resilient floor coverings, floor covering mastics and asphalt roofing products that contain more than 1% asbestos. Category II non-friable ACBM are all other non-friable materials other than Category I non-friable ACBM that contain more than 1% asbestos. RACM must be removed prior to renovation or demolition activities.

Washington Administrative Code (WAC) 173-400-075 adopts the federal NESHAP rule by reference. In the State of Washington, authority to administer NESHAP requirements is delegated to the regional air pollution authorities (e.g., the local Clean Air Agency or the Washington State Department of Ecology. In Thurston County, the NESHAP requirements are administered by the Northwest Clean Air Agency (NWCAA). NWCAA must be notified at least 10 working days prior to demolition of any structure with a projected roof greater than 120 square feet, regardless of whether any asbestos was identified. Notification is not required for renovation projects, unless the project involves the disturbance of friable asbestos containing materials. The owner or operator must also provide Washington State Department of Occupational Safety and Health (DOSH) with written notification at least 10 working days prior to the commencement of asbestos removal projects involving at least 10 linear feet or 48 square feet or RACM. Removal of RACM must be conducted by a State of Washington-certified asbestos abatement contractor.

In the State of Washington, worker exposures to asbestos are governed by Labor and Industries; (L&I's) DOSH. The administrative rule WAC 296-62-07705 requires that employee exposure to airborne asbestos fibers be maintained below 0.1 asbestos fibers per cubic centimeters of air (0.1 f/cc) as an eight hour time weighted average. State of Washington Occupational Safety and Health rules also classify construction and maintenance activities which could disturb ACBM, and specify work practices and precautions which employers must follow when their employees engage in each class of regulated work.

4.2 **Lead**

Lead was commonly used in most products until 1978, when it was banned from residential paints at concentrations greater than 600 parts per million (PPM); however, commercial applications with lead were still utilized and are still available. Lead is poisonous to the human body and presents a potential health hazard during any kind of disturbance (such as maintenance, including grinding, welding and cutting) and if improperly disposed, where lead can enter drinking water supplies.

EPA and Washington State defines lead-based paint as a concentration of 1.0 milligrams per square centimeters squared (mg/cm²) or greater by X-ray fluorescence (XRF) or 0.5 percent by weight or greater by total lead analysis (equivalent to 5,000 ppm). This EPA action level triggers requirements for protection of the environment, maintenance workers, and building occupants. It also triggers training and certification requirements for inspectors, project designers, contractors, supervisors and workers. The training requirements apply to certain residential structures and/or child occupied facilities, which this building fits well into the description of consideration.



Hazardous Materials Demolition Survey

The Occupational Safety and Health Administration (OSHA) and Washington State Department of Occupational Safety and Health (DOSH) worker protection regulations has not defined a minimum concentration for regulating lead and has clarified that lead at any detectable concentration shall be considered regulated (29 CFR 1926.62; WAC 296-62-176). OSHA and DOSH applies to all construction work and to general industry where an employee may be occupationally exposed to lead. Construction work is defined as work for construction, alteration and/or repair, including painting and decorating. It includes but is not limited to the following:

- Demolition or salvage of structures where lead or materials containing lead are present;
- Removal or encapsulation of materials containing lead;
- New construction, alteration, repair, or renovation of structures, substrates, or portions thereof, that contain lead, or materials containing lead;
- Installation of products containing lead
- Lead contamination/emergency cleanup;
- Transportation, disposal, storage, or containment of lead or materials containing lead on the site or location at which construction activities are performed, and
- Maintenance operations associated with the construction activities described in this paragraph.

As defined by OSHA, any detectable concentration of lead creates the requirement for implementing worker, and in some cases, environmental protection. The current OSHA standard (29 CFR 1926.62) and DOSH (WAC) 296-155 for standards, when the PEL is exceeded, the hierarchy of controls requires employers to institute feasible engineering and work practice controls as the primary means to reduce and maintain employee exposures to levels at or below the PEL.

When all feasible engineering and work practice controls have been implemented but have proven inadequate to meet the PEL, employers must nonetheless implement these controls and must supplement them with appropriate respiratory protection. The employer also must ensure that employees wear the respiratory protection provided when it is required

As referenced in OSHA's Technical Manual – Controlling Lead Exposures in the Construction Industry: Engineering and Work Practice Controls; Appendix V: 3-1 provides a construction task table and their presumed 8-hour TWA exposure levels:

> 50 to 500 μg/m³	> 500 μg/m³ to 2,500 μg/m³	> 2,500 μg/m³
Manual demolition	Using lead-containing mortar	Abrasive blasting
Dry manual scraping	Lead burning	Welding
Dry manual sanding	Rivet busting	Torch cutting
Heat gun use	Power tool cleaning without dust collection systems	Torch burning





Hazardous Materials Demolition Survey

Power tool cleaning w/ dust collection systems	Cleanup dry expendable abrasive blasting jobs
Spray painting with lead paint	Abrasive blasting enclosure movement and removal

The current lead standard for construction is unique in that it groups tasks presumed to create employee exposures above the PEL of $50~\mu g/m^3$ as an 8-hour TWA. Until the employer performs an employee exposure assessment and determines actual employee exposure, the employer must assume that employees performing one of these tasks are exposed to the levels of lead indicated for that task as referenced above. For all three groups of tasks, employers are required to provide respiratory protection appropriate to the task's presumed exposure level, protective work clothing and equipment, change areas, hand-washing facilities, training, and initial medical surveillance as prescribed by paragraph (d)(2)(v) of the standard. The only difference in the provisions applying to these groups is in the degree of respiratory protection required

4.3 <u>PCB</u>

Washington state Department of Ecology (DOE) references that concentrations of PCBs greater then 50 mg/Kg in solids or liquids is considered contaminated to be contaminated, which special procedures handling and disposal will be required. Department of Occupational Safety and Health (DOSH) has established worker protection guidelines for the disturbance of PCB containing compounds materials when:

- 1) Leaching PCBS to the surface and skin contacts occur;
- 2) Causing PCB contamination of the air, including dust, above the permissible exposure level of 0.5 mg/m³; or
- 3) Pentrated by water.

When removing PCBs, skin contact must be avoided. As with other hazardous substances, a heirarchy of control measures must be considered for the handling of PCBs with include:

- 1. Isolation to control the emission of PCBs or PCB dusts;
- 2. Engineering controls to minimize the direct handling of compouns and to minimize generating any airborne dusts;
- 3. Adoption of safe work practices; and
- 4. Where other effective means for control listed above are not practicable, suitable personal protectie equipment is to be used.

Osborn Elementary School



Hazardous Materials Demolition Survey

The demolition process may give rise to two types of exposure – that from the PCB compounds itself and that from the dust. Prior to demolition, any regulated PCB containing compound in the structure must be removed in accordance with state regulations. Bulk removal is required (see PCB light ballasts below). As with any demolition process, dust will be generated and may constitute a hazard depending on how it will be impacted, which appropriate dust control must be implemented (see Butimen expansion joint below).

The screening for ballasts was performed in accordance with EPA 909B-00-002 entitled "Removing PCBs from Light Fixtures". No samples were collected as part of this work.

4.4 Fluorescent Light Bulbs

Fluorescent light bulbs are present throughout the building and may be mercury vapor containing, which can be classified as universal waste. Universal wastes are a subset of hazardous wastes that are ubiquitous throughout commercial and industrial buildings. In accordance with EPA requirements, identified universal wastes must either be recycled where appropriate or disposed of as universal waste.

5.0 LIMITATIONS

This hazardous material survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the professions currently practicing under similar conditions in the same locale. The results, conclusions and recommendations expressed in this report are based on the conditions observed during our assessment of the work area being impacted. The information contained in this report is relevant to the date on which this assessment was performed, and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for the use by NWCI and Modawell Group for specific application to their project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. ORION does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.

6.0 CONCLUSIONS AND RECOMENDATIONS

- Materials being impacted that were not identified in the reports must be presumed as asbestos
 or lead containing until subsequent sampling can be conducted by an accredited professional.
- Fluorescent light fixtures within the building (if not certified as non-mercury containing) must be recycled in accordance with Washington State Department of Ecology Regulations.



Osborn Elementary School **Hazardous Materials Demolition Survey**

ATTACHMENT 1 Asbestos Findings and Recommendations

Suspect Material Table
Photographs
Certificate of Analysis
Sample Location Drawing
Inspectors' Accreditation



SUSPECT MATERIAL TABLE

A total of forty-four (44) samples consisting of various suspect materials were processed. No asbestos was identified in these samples. Components sampled are listed in the following table. Laboratory analytical reports and sample location maps are included in this attachment

SUSPECT MATERIAL	HOMOGENEOUS	SAMPLE NO.	DESCRIPTION	RESULTS
Mastic	MAS 1	01	Carpet mastic in school entry	No Asbestos
	MAS 2	05	Carpet mastic in Admin.	No Asbestos
	MAS 3	15	Panel board mastic in Library	No Asbestos
	MAS 4	17	Wainscotting Mastic in Special Ed	No Asbestos
	MAS 5	18	Floor leveler in Kitchen	No Asbestos
	CBM 1	07	2" Cove Base w/Yellow Mastic throughout building	No Asbestos
	CBM 2	16	2" Cove Base/Yellow Mastic throughout building	No Asbestos
	CBM 3	23	2" Cove Base/Yellow Mastic in Gym	No Asbestos
Vinyl Flooring	VS 1 & VS 2	33	Multiple-layered sheeting in closet across from Principal's Office	No Asbestos
	VS 1	31	Vinyl Sheeting Custodian Closet across from Room 6	No Asbestos
	VS 2	32	Vinyl Sheeting in Room 4	No Asbestos
Insulation	INS 1	04	Foam Insulation in Principal's Office	No Asbestos
Ceiling Tile	CT 1	05	2×4 Ceiling Tile in Principal's Office and throughout building	No Asbestos
Ceramic Tile	CRT 1	80	Ceramic Tile Set in Admin Bathroom (wall)	No Asbestos
	CRT 2	60	Ceramic Tile Set in Admin Bathroom (floor)	No Asbestos
	CRT 3	13	Ceramic Tile Set in Bathrooms	No Asbestos

Osborn Elementary School



Hazardous Materials Demolition Survey

SUSPECT MATERIAL	HOMOGENEOUS IDENTIFICATION	SAMPLE NO.	DESCRIPTION	RESULTS
Sink Undercoat	SNK 1	10	Dark Sink Undercoat in Nurse Office	No Asbestos
Wall System	WS 1	11	Wallboard and Taping Mud throughout building	No Asbestos
	WS 2	12	Brick Grout in Entry and Hallway	No Asbestos
	WS 3	14	Wallboard and Taping Mud throughout building	No Asbestos
	WS 4	19	Skim Coat, Green Board and Vapor Barrier in Kitchen	No Asbestos
A	WS 5	24	Wallboard, Joint Compound and Mastic on Gym Walls	No Asbestos
	WS 6	36	Multiple layered wall system on Exterior Soffit	No Asbestos
Surfacing Material	SM 1	20, 21	Skim Coat in Kitchen	No Asbestos
	SM 2	37, 38, 39, 40, 41, 42, 43	Skim Coat on Exterior soffit and walls	No Asbestos
Miscellaneous	MISC 1	90	Vinyl Paper, mastic and wallboard in Admin.	No Asbestos
	MISC 2	22	Vinyl Flooring Pad in Gym	No Asbestos
	MIS 3	34	Fiberglass Pipe Wrap with/Caulked Ends	No Asbestos
Pipe Insulation	TSI 1	25, 26, 27	2" Mudded Fittings in Outside Kitchen	No Asbestos
	TSI 2	28, 29, 30	4" Mudded Fittings in Custodian Closet	No Asbestos
Caulking	CLK 1	33	Interior Window Caulking in Classrooms	No Asbestos
	CLK 2	35	Window Caulk in Admin.	No Asbestos
	CLK 3	44	Exterior Window Caulk	No Asbestos

debris). Confirmation to determine material as non-asbestos containing (if existing) will need to be performed by an accredited AHERA Building NOTE: Asbestos-containing pipe insulation is presumed inside sealed for utilidor for an estimated quantity of 3,500 linear feet (not including inspector.

ATTACHMENT 1



NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

Dept. Code: PLM

N/A

Batch#:

BATTA LABORATORIES, LLC

A Certified MBE Company

Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764









Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

CERTIFICATE OF PLM ANALYSIS Rev. #: 0

Page 1 of 16

COC#:	N/A		Test Meth	od: EPA/600	D/R-93/116 in conju	inction with	Batta SOP	Report Date:	07/23/20
Sampling BLI Project Project Na	ot #:	R100815 ORION ENV-020-0	277 Osbori	ne Elemen	tary- 225 Centra	ıl Ave, Lea	venworth, WA	Date Sampled: Sampled By: Date Analyzed:	07/16/20 CLIENT 07/23/20
	ple ID	Client-sur	plied Da	ita	Analytica	l Data	Re	eported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Cor	nponents
1147543	01	School Entry	Carpet Mastic	n/a	Firm Homogeneous	Tan	100% Non- fibrous Material	No Asbestos Found	
11 4 7544	02	Admin	Carpet Mastic	n/a	Firm	Tan	100% Non- fibrous Material	No Asbestos Found	
1147545	03	Closet Across from Principal	Vinyl Sheeting	n/a	Firm	Gray Pink	100% Non- fibrous Material	No Asbestos Found	
1147546	03 (Layer 1)	Closet Across from Principal	Vinyl Sheeting	n/a	Firm	Tan	5% Synthetic Fiber 5% Fiber Glass 90% Non-fibrous Material	No Asbestos Found	
1147547	04	Principal	Foam Insulation	n/a	Fibrous	Brown	100% Mineral Wool	No Asbestos Found	
ote 2 lote 3	<i>further analysis</i> Unless otherwi Materials conta to inherent limi	ins of the EPA PLM me is by electron microscop se specified, Tr=Trace tining vermiculite are n tations caused by the to 1004, known as "The Co	oy. Batta not and correl not good ca material. T	ecommend ates to <0. ndidates for the EPA re	is the NY 198.4 25% (based on or analysis using	over the C a 400-poin standard	hatfield method. It EPA point count). EPA 600 PLM protoc	col. Results may be lov	w-biased du
	ANALYST:	REP					REVIEWED BY:	100	

QA/QC Officer/Signatory

Document Security Note: Due to the unsecure nature of electronic files, it is the responsibility of the client (herein defined as the recipients of this or these electronic files) to verify the authenticity and accuracy of data included in the attached electronic file(s). Batta Laboratories, LLC is not liable for any discrepancies, alternations, reproduction (including copying and pasting), redistribution or any other actions that may alter or change the accuracy or the nature of the originally transmitted files. It is recommended that the recipient of these documents verify the data in electronic format with the corresponding hard copy data report.

^{*}This report does not constitute endorsement by NVLAP and/or any other US government agencies.

^{*}The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

^{*}Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198.6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

^{*}WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole', Within this classification are: winchite, richterite, tremolite, and actinolite



NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

Dept. Code: PLM

BATTA LABORATORIES, LLC

A Certified MBE Company

Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764

EPA Lab ID #DE004

Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

CEDTIFICATE OF DIM ANALVSIS

Rev.#:	0		ERTIF	ICATE	OF PLN	ANA	LYSIS	Page 2 o	f 16
Batch#: COC#:	N/A N/A		Test Metho	od: EPA/600	D/R-93/116 in conju	inction with	Batta SOP	Report Date:	07/23/20
Sampling BLI Project Project Na	ot #:	R100815 ORION ENV-020	-0277 Osborr	ne Elemen	tary- 225 Centra	l Ave, Lea	avenworth, WA	Date Sampled: Sampled By: Date Analyzed:	07/16/20 CLIENT 07/23/20
	ple ID		pplied Da		Analytica			ported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Con	nponents
1147548	05	Principal	Ceiling Tile	n/a	Fibrous	White	45% Mineral Wool 30% Cellulose 25% Non-fibrous Material	No Asbestos Found	
1147549	06	Admin	Vinyl Paper	n/a	Fibrous	White	20% Fiber Glass 20% Synthetic Fiber 10% Cellulose 50% Non-fibrous Material	No Asbestos Found	
1147550	06 (Layer 1)	Admin	Mastic	n/a	Firm	Tan	100% Non- fibrous Material	No Asbestos Found	
1147551	06 (Layer 2)	Admin	Wallboard	n/a	Firm	White	5% Fiber Glass 95% Non-fibrous Material	No Asbestos Found	
1147552	07	Admin	2" Cove Base	n/a	Firm Homogeneous	Black	100% Non- fibrous Material	No Asbestos Found	
lote 2 lote 3	further analysis Unless otherwi Materials conta to inherent limi EPA 600/R-04/	s by electron microsonse specified, Tr=Tra- se specified, Tr=Tra- nining vermiculite are tations caused by the 1004, known as "The	copy. Batta re ce and correlation not good car e material. T	ecommend ates to <0 ndidates for the EPA re	ds the NY 198.4 .25% (based on or analysis using	over the C a 400-poil standard vermiculit	Chatfield method. nt EPA point count). EPA 600 PLM protoc	ol. Results may be low	v-biased d
,	ANALYST:	REP	h	9			VEALENSED DI	QA/QC Officer/	Signator

^{*}This report does not constitute endorsement by NVLAP and/or any other US government agencies.

^{*}The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

^{*}Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In those cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198,6/198,4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

^{*}WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.



NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

Dept. Code: PLM

Rev. #: 0

battaLABORATORIES

BATTA LABORATORIES, LLC

A Certified MBE Company

Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764



NVLAP

Page 3 of 16

Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

CERTIFICATE OF PLM ANALYSIS

Batch#:	N/A							ı	
COC#:	N/A		Test Meth	od: EPA/600)/R-93/116 in conju	inction with E	Batta SOP	Report Date:	07/23/20
Sampling BLI Project Project Na	ct #:	R100815 ORION ENV-020-02	277 Osbor	ne Elemen	tary- 225 Centra	l Ave, Leav	venworth, WA	Date Sampled: Sampled By: Date Analyzed:	07/16/20 CLIENT 07/23/20
	ple ID	Client-sup			Analytica			eported Results	
Lab	Client	Sample	Material		Texture/	1	Non-asbestiform	***************************************	
Sample#	Sample#	Description	Type	Friable?	Gross	Color	Components	Asbestiform Con	nponents
1147553	07 (Layer 1)	Admin	Mastic	n/a	Firm Homogeneous	Tan	100% Non- fibrous Material	No Asbestos Found	
1147554	08	Admin Bathroom Wall	Ceramic Tile	n/a	Firm	White	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous		hbjodo Matorial		
1147555	08 (Layer 1)	Admin Bathroom Wall	Backing	n/a	Fibrous	White	80% Cellulose 20% Non-fibrous	No Asbestos Found	
					Homogeneous		Material		
1147556	08 (Layer 2)	Admin Bathroom Wall	Grout	n/a	Cementitious	Gray	100% Non-	No Asbestos Found	
,,,,,				Homogeneous	fibrous Material				
444755			Ceramic	,	Firm		100% Non-	Als Ashartas Francis	
1147557	09	Admin Floor	Tile	n/a	Homogeneous	Tan	fibrous Material	No Asbestos Found	

Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

			\bigcap $A \cap$	
ANALYST:	REP	REVIEWED BY:	120	
_				

QA/QC Officer/Signatory

^{*}This report does not constitute endorsement by NVLAP and/or any other US government agencies.

^{*}The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

^{*}Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbostos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198,6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

^{*}WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.



NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

Dept. Code: PLM

Day # 0

batta LABORATORIES

BATTA LABORATORIES, LLC

A Certified MBE Company

Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764



NVLAP

Page 4 of 16

CEDTIEICATE OF DI MIANAL VOIS

Rev. #:	0		JERIIF	ICATE	OF PLIV	IANA	ALYSIS	Page 4 o	16
Batch#: COC#:	N/A N/A		Test Meth	od; EPA/600	0/R-93/116 in conju	unction with	Batta SOP	Report Date:	07/23/20
Sampling BLI Project Project Na	ct #:	R100815 ORION ENV-020	-0277 Osbori	ne Elemen	tary- 225 Centra	l Ave, Lea	avenworth, WA	Date Sampled: Sampled By: Date Analyzed:	07/16/20 CLIENT 07/23/20
	ple ID		pplied Da		Analytica			eported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Con	nponents
1147558	09 (Layer 1)	Admin Floor	Grout	n/a	Cementitious	Gray	100% Non- fibrous Material	No Asbestos Found	
1148191	09 (Layer 2)	Admin Floor	Backing	n/a	Fibrous Homogeneous	White	80% Cellulose 20% Non-fibrous Material	No Asbestos Found	
1147559	10	Nurse	Sink Undercoat	n/a	Firm Homogeneous	Black	2% Cellulose 98% Non-fibrous Material	No Asbestos Found	
1147560	11	Admin	Joint Compound	n/a	Firm Homogeneous	White	100% Non- fibrous Material	No Asbestos Found	
1147561	11 (Layer 1)	Admin	Wallboard	n/a	Firm Homogeneous	White Tan	10% Cellulose 5% Fiber Glass 85% Non-fibrous Material	No Asbestos Found	

Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST: _____ REP____ REVIEWED BY: _____

QA/QC Officer/Signatory

^{*}This report does not constitute endorsement by NVLAP and/or any other US government agencies,

^{*}The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

^{*}Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbectos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198.6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

^{*}WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.



NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

Dept. Code: PLM

Rev. #:

BATTA LABORATORIES, LLC

A Certified MBE Company

Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764



Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

CERTIFICATE OF PLM ANALYSIS

Page 5 of 16

Batch#:	N/A	-				III	1110 2 11100	() - 프라이어() () 프라이어()	07/00/00
COC#:	N/A		Test Meth	od: EPA/600	0/R-93/116 in conju	inction with t	Batta SOP	Report Date:	07/23/20
Sampling		D400045						Date Sampled:	07/16/20
BLI Projec		R100815	0077 Oabar	no Floriani	lant 225 Contra	l Ave Loc	roquesth IAIA	Sampled By:	CLIENT
Project Na		ORION ENV-020-0						Date Analyzed: eported Results	07/23/20
	iple ID	Client-su		ata	Analytica	Data		eported Results	
Lab	Client	Sample	Material	F	Texture/	0-1	Non-asbestiform	Ash satifarm Can	
Sample#	Sample#	Description	Туре	Friable?	Gross	Color	Components	Asbestiform Con	iponents
1147562	12	Entry Hall Wall	Brick	n/a	Firm	Red	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous				
1147563	12 (Layer 1)	Entry Hall Wall	Grout	n/a	Cementitious	Gray	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous				
1147564	13	Bathrooms	Ceramic Tile	n/a	Firm	White	100% Non- fibrous Material	No Asbestos Found	
					Tiomogeneous				
1147565	13 (Layer 1)	Bathrooms	Grout	n/a	Cementitious	Gray	100% Non- fibrous Material	No Asbestos Found	
					Tiomogeneous				
1148192	13 (Layer 2)	Bathrooms	Backing	n/a	Fibrous	Tan	80% Cellulose 20% Non-fibrous Material	No Asbestos Found	
					Homogeneous				
Note 2 Note 3	further analysis Unless otherwis Materials contai	by electron microsco se specified, Tr=Trace ining vermiculite are i	py. Batta re and correl not good ca	ecommend ates to <0.5 ndidates fo	is the NY 198.4 o 25% (based on a or analysis using	over the Cf a 400-point standard E	hatfield method. t EPA point count). EPA 600 PLM protoc	d. As such, the EPA re col. Results may be low) be prepped and analy	v-biased due
		ations caused by the 004, known as "The (REP			commends that		REVIEWED BY:	QU.	zed using

QA/QC Officer/Signatory

^{*}This report does not constitute endorsement by NVLAP and/or any other US government agencies.

^{*}The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

^{*}Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In these cases, the EPA recommonds further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198,6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

^{*}WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.



NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

Dept. Code: PLM

0

Rev. #:

batta

BATTA LABORATORIES, LLC

A Certified MBE Company

Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764





Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

CERTIFICATE OF PLM ANALYSIS

Page 6 of 16

QA/QC Officer/Signatory

Batch#: COC#:	N/A N/A	-	Test Metho	od: EPA/600	D/R-93/116 in conju	inction with	Batta SOP	Report Date:	07/23/20
Sampling BLI Project Project Na	ct #:	R100815 ORION ENV-020						Date Sampled: Sampled By: Date Analyzed:	07/16/20 CLIENT 07/23/20
	ple ID	Client-su	pplied Da	ta	Analytica	Data	Re	ported Results	
Lab	Client	Sample	Material		Texture/		Non-asbestiform	201-1	
Sample#	Sample#	Description	Туре	Friable?	Gross	Color	Components	Asbestiform Cor	nponents
1147566	14	Bathrooms	Joint Compound	n/a	Firm Homogeneous	White	100% Non- fibrous Material	No Asbestos Found	
1147567	14 (Layer 1)	Bathrooms	Wallboard	n/a	Firm Homogeneous	Tan	10% Cellulose 5% Fiber Glass 85% Non-fibrous Material	No Asbestos Found	
1147568	15	Special Ed.	Panel Board	n/a	Fibrous	Tan	90% Cellulose 10% Non-fibrous Material	No Asbestos Found	
1147569	15 (Layer 1)	Special Ed.	Mastic	n/a	Firm Homogeneous	Brown	100% Non- fibrous Material	No Asbestos Found	
1147570	16	Special Ed.	2" Cove Base	n/a	Firm Homogeneous	Tan	100% Non- fibrous Material	No Asbestos Found	
Note 2 Note 3	further analysis Unless otherwis Materials contai to inherent limits	by electron microsone specified, Tr=Tracening vermiculite are	opy. Batta re ce and correla not good car e material. Th	commend ates to <0. adidates for the EPA re	ds the NY 198.4 25% (based on or analysis using	over the C a 400-poir standard vermiculite	chatfield method. nt EPA point count). EPA 600 PLM protoc	ol. Results may be low	v-biased due

^{*}This report does not constitute endorsement by NVLAP and/or any other US government agencies.

[&]quot;The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

^{*}Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198.6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

^{*}WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.



NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

Dept. Code: PLM

Rev. #:

batta

BATTA LABORATORIES, LLC

A Certified MBE Company

Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764



NVLAP

Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

CERTIFICATE OF PLM ANALYSIS

Page 7 of 16

Batch#:	N/A							20	
COC#:	N/A		Test Metho	od: EPA/600	0/R-93/116 in conju	inction with I	Batla SOP	Report Date:	07/23/20
Samplin								Date Sampled:	07/16/20
BLI Proje		R100815	0077 0-1	- Process	100 Cartes	l Ave. I may	was wanth MAA	Sampled By:	CLIENT
Project N		ORION ENV-020						Date Analyzed: eported Results	07/23/20
	nple ID		ipplied Da	ta	Analytica	Data		eported Results	
Lab	Client	Sample	Material	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Cor	nnonents
Sample#	Sample#	Description	Туре	1 Hable:	Giuss	COIOI	Components	Asbestionii oor	iponento
1147571	16 (Layer 1)	Special Ed.	Mestic	n/a	Firm	Tan	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous				
1147572	16 (Layer 2)	Special Ed.	Mastic	n/a	Firm	Brown	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous				
1147573	16 (Layer 3)	Special Ed.	Mastic	n/a	Firm	Black	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous				
1147574	17	Special Ed	Wainscoting	n/a	Firm	White Brown	90% Cellulose 10% Non-fibrous	No Asbestos Found	
					Homogeneous		Material		
1147575	17 (Layer 1)	Special Ed.	Mastic	n/a	Firm	Tan	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous				
Note 1 Note 2 Note 3	further analysis Unless otherwis Materials conta	by electron microsone specified, Tr=Tradining vermiculite are	copy. Batta received and correlate not good car	ecommend ates to <0 ndidates fo	ds the NY 198.4 ,25% (based on or analysis using	over the Cl a 400-poin standard E	<i>hatfield method.</i> t EPA point count). EPA 600 PLM protoc	d. As such, the EPA re	v-biased due
		ations caused by the 004, known as "The REP			commends that		e attic insulation (VAI	be prepped and analy	yzed using
								01/00 05	Cianatan.

QA/QC Officer/Signatory

^{*}This report does not constitute endorsement by NVLAP and/or any other US government agencies.

^{*}The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

^{*}Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbostos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198,6/198,4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

^{*}WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.



NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

Dept. Code: PLM

0

N/A

Rev. #:

Batch#

batta

BATTA LABORATORIES, LLC

A Certified MBE Company

Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764



NVLAP

Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

CERTIFICATE OF PLM ANALYSIS

Page 8 of 16

Batch#: COC#:	N/A N/A		Test Meth	od: EPA/600	n/R-93/116 in conju	inction with E	Batta SOP	Report Date:	07/23/20
Sampling BLI Proje Project N	ect#:	R100815 ORION ENV-020-	0277 Osborr	ne Elemen	tary- 225 Centra	l Ave, Leav	venworth, WA	Date Sampled: Sampled By: Date Analyzed:	07/16/20 CLIENT 07/23/20
	nple ID	Client-su	- Marian		Analytica			eported Results	
Lab Sample#	Client	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Con	nponents
1147576	18	Kitchen	Mastic	n/a	Firm Homogeneous	Yellow	100% Non- fibrous Material	No Asbestos Found	
1147577	18 (Layer 1)	Kitchen	Floor Leveler	n/a	Granular Homogeneous	Tan	100% Non- fibrous Material	No Asbestos Found	
1147578	19	Kitchen	Skim Coat	n/a	Firm	White	100% Non- fibrous Material	No Asbestos Found	
1147579	19 (Layer 1)	Kitchen	Green Board	n/a	Fibrous Homogeneous	Green Tan	95% Cellulose 5% Non-fibrous - Material	No Asbestos Found	
1147580	19 (Layer 2)	Kitchen	Vapor Barrier	n/a	Fibrous Homogeneous	Tan Black	95% Cellulose 5% Non-fibrous Material	No Asbestos Found	
lote 2	further analysis Unless otherwis Materials contai to inherent limit	by electron microsco se specified, Tr=Trac ining vermiculite are	opy. Batta re e and correla not good car material. T	ecommend ates to <0. adidates fo he EPA re	s the NY 198.4 25% (based on a or analysis using	<i>over the Ch</i> a 400-point standard E	natfield method. EPA point count). EPA 600 PLM protoc	d. As such, the EPA recol. Results may be low be prepped and analy	v-biased due
	ANALYST:	REP				F	REVIEWED BY:		

QA/QC Officer/Signatory

^{*}This report does not constitute endorsement by NVLAP and/or any other US government agencies.

^{*}The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

^{*}Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198,6/198,4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratorics assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

^{*}WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.



NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

Dept. Code: PLM

n

N/A

Rev. #:

Batch#:

batta LABORATORIES

BATTA LABORATORIES, LLC

A Certified MBE Company

Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764



NVLAP

Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

CERTIFICATE OF PLM ANALYSIS

Page 9 of 16

COC#:	N/A		Test Meth	od: EPA/600	D/R-93/116 in conju	inction with	Batta SOP	Report Date:	07/23/20
Sampling BLI Project Project Na	ct #:	R100815 ORION ENV-020	0277 Osbori	ne Elemen	tary- 225 Centra	l Ave, Lea	venworth, WA	Date Sampled: Sampled By: Date Analyzed:	07/16/20 CLIENT 07/23/20
	ple ID	Client-su	pplied Da	ita	Analytica	Data	R	eported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Cor	nponents
1147581	20	Kitchen	Skim Coat	n/a	Firm	White	100% Non- fibrous Material	No Asbestos Found	
1147582	21	Kitchen	Skim Coat	n/a	Firm	White	100% Non- fibrous Material	No Asbestos Found	
1147583	22	Gym	Vinyl Flooring/Pa d	n/a	Firm	Blue Gray	100% Non- fibrous Material	No Asbestas Found	
1147584	22 (Layer 1)	Gym	Concrete	n/a	Firm Homogeneous	Gray	100% Non- fibrous Material	No Asbestos Found	
1147585	23	Gym	2" Cove Base	n/a	Firm Homogeneous	Tan	100% Non- fibrous Material	No Asbestos Found	
lote 2 lote 3	further analysia Unless otherwi Materials conta to inherent limi	s by electron microsc ise specified, Tr=Trac aining vermiculite are	opy. Batta researched and correlation of good caller material.	ecommend ates to <0. ndidates fo he EPA re	is the NY 198.4 25% (based on a or analysis using	over the C a 400-poin standard	hatfield method. It EPA point count). EPA 600 PLM protoc	col. Results may be low be prepped and analy	v-biased due
,	ANALYST:	REP				11	REVIEWED BY:	144	

QA/QC Officer/Signatory

^{*}This report does not constitute endorsement by NVLAP and/or any other US government agencies,

^{*}The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

[&]quot;Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP item 198,6/198,4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

^{*}WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, inchterite, tremolite, and actinolite.



NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

Dept. Code: PLM

0

Rev.#:

batta

BATTA LABORATORIES, LLC

A Certified MBE Company

Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764



NVLAP

Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

CERTIFICATE OF PLM ANALYSIS

Page 10 of 16

QA/QC Officer/Signatory

Batch#: COC#:	N/A N/A		Test Meth	od: EPA/600)/R-93/116 in conju	inction with	Batta SOP	Report Date:	07/23/20
Sampling BLI Proje Project N	ct #:	R100815 ORION ENV-020						Date Sampled: Sampled By: Date Analyzed:	07/16/20 CLIENT 07/23/20
	nple ID		pplied Da		Analytica			ported Results	01123/20
Lab	Client	Sample	Material	ııa	Texture/	Duta	Non-asbestiform	portou riocano	
Sample#	Sample#	Description	Type	Friable?	Gross			Asbestiform Con	ponents
1147586	23 (Layer 1)	Gym	Mastic	n/a	Firm Homogeneous	Yellow	100% Non- fibrous Material	No Asbestos Found	
1147587	24	Gym	Joint Compound	n/a	Firm Homogeneous	White	100% Non- fibrous Material	No Asbestos Found	
1147588	24 (Layer 1)	Gym	Wallboard	n/a	Firm Homogeneous	White Tan	10% Cellulose 5% Fiber Glass 85% Non-fibrous Material	No Asbestos Found	
1147589	24 (Layer 2)	Gym	Mastic	n/a	Firm Homogeneous	Black	100% Non- fibrous Material	No Asbestos Found	
1147590	25	2 Fittings	2" Pipe Wrap Mudded Fitting	n/a	Firm Fibrous	White	25% Cellulose 75% Non-fibrous Material	No Asbestos Found	
lote 2 lote 3	further analysis Unless otherwis Materials contai to inherent limits	by electron microsc ie specified, Tr=Trac ning vermiculite are	opy. Batta re e and correlation not good car material. T	ecommend ates to <0. ndidates fo he EPA re	s the NY 198.4 25% (based on a or analysis using	over the C a 400-poir standard	thatfield method. Int EPA point count) EPA 600 PLM protoc	ol. Results may be loved be prepped and analy	v-biased due
	ANALYST:	REP					REVIEWED BY:	104	

^{*}This report does not constitute endorsement by NVLAP and/or any other US government agencies.

[&]quot;The test data pertain only to the items tested, No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

^{*}Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In those cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198,6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

^{*}WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.



NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

Dept. Code: PLM

N/A

N/A

Rev. #: Batch#:

COC#:

batta

BATTA LABORATORIES, LLC

A Certified MBE Company

Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764



Report Date:

NVLAP

07/23/20

Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

Test Method: EPA/600/R-93/116 in conjunction with Batta SOP

CERTIFICATE OF PLM ANALYSIS

Page 11 of 16

CUC#.	N/A		1 CSL MICH	ou. LI Arouc	//R-93/116 in conju	ALICHOLI WILLI	Dalla CO	Report Date.	UTIZJIZU
Sampling	Data							Date Sampled:	07/16/20
BLI Projec	t#:	R100815						Sampled By:	CLIENT
Project Na	ime:	ORION ENV-020-0	277 Osbor	ne Elemen	tary- 225 Centra	l Ave, Lea	venworth, WA	Date Analyzed:	07/23/20
	ple ID	Client-su	oplied Da	ita	Analytica	Data	R	eported Results	
Lab	Client	Sample	Material		Texture/		Non-asbestiform		
Sample#	Sample#	Description	Type	Friable?	Gross	Color	Components	Asbestiform Cor	nponents
1147591	26	2 Fittings	2" Pipe Wrap Mudded Fitting	n/a	Firm Fibrous	White	25% Cellulose 75% Non-fibrous Material	No Asbestos Found	
					Homogeneous				
1147592	27	2 Fittings	2" Pipe Wrap Mudded	n/a	Firm Fibrous	White	25% Celiulose 75% Non-fibrous	No Asbestos Found	
			Fitting		Homogeneous		Material		
1147593	28	1 Fitting Directly Outside Kitchen	4" Pipe Wrap Mudded	n/a	Firm Fibrous	White	25% Cellulose 75% Non-fibrous	No Asbestos Found	
		Outside Kitchen	Fitting		Homogeneous		Material		
1147594	29	1 Fitting Directly Outside Kitchen	4" Pipe Wrap Mudded	n/a	Firm Fibrous	White	25% Cellulose 75% Non-fibrous	No Asbestos Found	
		Outside Kitchen	Fitting		Homogeneous		Material		
1147595	30	1 Fitting Directly	4" Pipe Wrap Mudded	n/a	Firm Fibrous	White	25% Cellulose 75% Non-fibrous	No Asbestos Found	
		Outside Kitchen	Fitting		Homogeneous		Material		

Note 1. Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0,25% (based on a 400-point EPA point count).

Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST:	REP	REVIEWED BY:	IVU	

QA/QC Officer/Signatory

^{&#}x27;This report does not constitute endorsement by NVLAP and/or any other US government agencies.

^{*}The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

^{*}Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198,6/198,4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

^{*}WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richtente, tremolite, and actinolite.



NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

Dept. Code: PLM

Λ

Rev.#:

batta

BATTA LABORATORIES, LLC

A Certified MBE Company

Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764







Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

CERTIFICATE OF PLM ANALYSIS

Page 12 of 16

Batch#:	N/A								
COC#:	N/A		Test Meth	od: EPA/600	D/R-93/116 in conju	inction with	Batta SOP	Report Date:	07/23/20
Sampling	-							Date Sampled:	07/16/20
BLI Proje		R100815		<u> </u>			. 41. 1444	Sampled By:	CLIENT
Project N		ORION ENV-020-0						Date Analyzed:	07/23/20
San	nple ID	Client-sup	plied Da	ata	Analytica	Data		eported Results	
Lab	Client	Sample	Material		Texture/		Non-asbestiform		
Sample#	Sample#	Description	Туре	Friable?	Gross	Color	Components	Asbestiform Con	nponents
1147596	31	Custodian Closet across from Room 6	Vinyl Sheeting	n/a	Firm Homogeneous	Gray	100% Non- fibrous Material	No Asbestos Found	
1147597	31 (Layer 1)	Custodian Closet across from Room 6	Mastic	n/a	Firm	Yellow	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous				
1147598	32	Room 4	Vinyl Sheeting	n/a	Firm Homogeneous	Tan	10% Cellulose 5% Fiber Glass 85% Non-fibrous Material	No Asbestos Found	
1147599	32 (Layer 1)	Room 4	Mastic	n/a	Firm	Black	100% Non- fibrous Material	No Asbestos Found	
1147601	33	Room 1	Window Caulk	n/a	Soft	Black	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous				
Note 2	further analysis Unless otherwis Materials conta to inherent limit	by electron microscopese specified, Tr=Trace ining vermiculite are n	oy. Batta r and correl ot good ca naterial. T	ecommend ates to <0. Indidates fo the EPA re	ds the NY 198.4 25% (based on a or analysis using	over the C a 400-poin standard	thatfield method. It EPA point count). EPA 600 PLM protoc	d. As such, the EPA reconst. col. Results may be low	v-biased due
	ANALYST:	REP				1	REVIEWED BY:	RN	

QA/QC Officer/Signatory

Document Security Note: Due to the unsecure nature of electronic files, it is the responsibility of the client (herein defined as the recipients of this or these electronic files) to verify the authenticity and accuracy of data included in the attached electronic file(s). Batta Laboratories, LLC is not liable for any discrepancies, alternations, reproduction (including copying and pasting), redistribution or any other actions that may alter or change the accuracy or the nature of the originally transmitted files. It is recommended that

"This report does not constitute endorsement by NVLAP and/or any other US government agencies.

the recipient of these documents verify the data in electronic format with the corresponding hard copy data report.

*The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

*Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198.6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

^{*}WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.



NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

Dept. Code: PLM

0

Rev. #:

batta

BATTA LABORATORIES, LLC

A Certified MBE Company

Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764



NVLAP

Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

CERTIFICATE OF PLM ANALYSIS

Page 13 of 16

Batch#: COC#:	N/A N/A		Test Metho	od: EPA/600	/R-93/116 in conju	nction with	Batta SOP	Report Date:	07/23/20
Sampling								Date Sampled:	07/16/20
BLI Projec		R100815						Sampled By:	CLIENT
Project Na		ORION ENV-020-0	277 Osbort	ne Element	tary- 225 Centra	l Ave, Lea	venworth, WA	Date Analyzed:	07/23/20
	ple ID	Client-sup	plied Da	ta	Analytica	Data	Re	ported Results	
Lab	Client	Sample	Material		Texture/		Non-asbestiform		
Sample#	Sample#	Description	Type	Friable?	Gross	Color	Components	Asbestiform Con	nponents
1147602	34	Mech Room	Fiberglass Pipe Wrap	n/a	Fibrous Homogeneous	Yellow White	95% Fiber Glass 3% Cellulose 2% Non- fibrous Material	No Asbestos Found	
1147603	34 (Layer 1)	Mech Room	Caulk End	n/a	Firm	Tan	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous				
1147604	35	Admin	Window Caulk	n/a	Firm Homogeneous	Clear	100% Non- fibrous Material	No Asbestos Found	
1147605	36	Exterior Ceiling Soffet & Wall	Skim Coat	n/a	Firm	White Red	100% Non- fibrous Material	No Asbestos Found	
					Layered				
1147606	36 (Layer 1)	Exterior Ceiling Soffet & Wall	Styroboard	n/a	Firm	White Gray	5% Fiber Glass 95% Non-fibrous	No Asbestos Found	
		G. 77 G.			Layered		Material		
Note 2	further analysis Unless otherwi Materials conta to inherent limit	ns of the EPA PLM me s by electron microscop se specified, Tr=Trace tining vermiculite are nations caused by the 1004, known as "The Co	oy. Batta not and correlated and cor	ecommend ates to <0. ndidates fo he EPA re	is the NY 198.4 25% (based on or analysis using	over the C a 400-poir standard	chatfield method. Int EPA point count). EPA 600 PLM protoc	ol. Results may be lov	v-biased du
	ANALYST:	REP_		3			REVIEWED BY:	1311	

QA/QC Officer/Signatory

^{*}This report does not constitute endorsement by NVLAP and/or any other US government agencies.

^{*}The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

^{*}Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In those cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198,6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

^{*}WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.



NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

Dept. Code: PLM

Rev.#:

batta

BATTA LABORATORIES, LLC

A Certified MBE Company

Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764



MYLAP

Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

CERTIFICATE OF PLM ANALYSIS

Page 14 of 16

QA/QC Officer/Signatory

Batch#:	N/A				OI I LI			r ago 14 o	
COC#:	N/A		Test Meth	od: EPA/600	0/R-93/116 in conju	anction with	Batta SOP	Report Date:	07/23/20
Sampling BLI Project	et #:	R100815 ORION ENV-020-0	277 ∩ehorr	ne Flemen	tanı. 225 Centra	I Ave I ea	venworth WA	Date Sampled: Sampled By: Date Analyzed:	07/16/20 CLIENT 07/23/20
roject Na	ple ID	Client-sup			Analytica			eported Results	07723720
Lab	Client	Sample	Material	ita	Texture/	Data	Non-asbestiform	oportou recourto	
Sample#	Sample#	Description	Туре	Friable?	Gross	Color	Components	Asbestiform Cor	nponents
1147607	36 (Layer 2)	Exterior Ceiling Soffet & Wall	Mastic	n/a	Firm	Gray	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous				
1147608	36 (Layer 3)	Exterior Ceiling Soffet & Wall	Vapor Barrier	n/a	Fibrous	Brown	75% Cellulose 25% Non-fibrous	No Asbestos Found	
					Homogeneous		Material		
1147609	36 (Layer 4)	Exterior Ceiling Soffet & Wall	Wallboard	n/a	Firm	Tan	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous				
147610	37	Exterior Wall & Soffet	Skim Coat	n/a	Firm	Red	100% Non-	No Asbestos Found	
	•				Layered	White	fibrous Material		
147040	20	E desire Mint of the Commission	Skim Coat	w/-	Firm	Red	100% Non-	No Asbestos Found	
1147612	38	Exterior Wall & Soffet		n/a	Layered	White	fibrous Material	NO Aspestos Found	
		ns of the EPA PLM me s by electron microscop						d. As such, the EPA re	ecommend
	•	se specified, Tr=Trace	•						
ote 3	Materials conta to inherent limit	tining vermiculite are n tations caused by the r 004, known as "The C	ot good car material: T	ndidates fo	or analysis using	standard I	EPA 600 PLM protoc	col. Results may be low) be prepped and analy	v-biased du /zed using
	ANALYST:	REP	monniau W	outou (REVIEWED BY:	0 16)	

^{*}This report does not constitute endorsement by NVLAP and/or any other US government agencies.

^{*}The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

^{*}Organically-bound, nontriable material may interfere with the accurate and reproducible quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198.6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

^{*}WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.



NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

Dept. Code: PLM

Rev. #: 0

batta

BATTA LABORATORIES, LLC

A Certified MBE Company

Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764



NVLAP

Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

CERTIFICATE OF PLM ANALYSIS

Page 15 of 16

Detabili	ALLA				OI I EI	HAIRIA		l age to o	
	N/A N/A		Test Meth	od: EPA/600/	'R-93/116 in conj	unction with	Batta SOP	Report Date:	07/23/20
Sampling BLI Project	t #:	R100815 ORION ENV-020-0	277 Osbori	ne Element	any 225 Centrs	al Ave I ea	venworth MA	Date Sampled: Sampled By: Date Analyzed:	07/16/20 CLIENT 07/23/20
Project Na	ple ID	Client-sup	-		Analytica	A Dark of Classics		eported Results	01123/20
				ııa		Data	Non-asbestiform	eported results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Components	Asbestiform Con	nponents
1147614	39	Exterior Wall & Soffet	Skim Coal	n/a	Firm Layered	Red White	100% Non- fibrous Material	No Asbestos Found	
1147616	40	Exterior Wall & Soffet	Skim Coat	n/a -	Firm	Red White	100% Non- fibrous Material	No Asbestos Found	
1147618	41	Exterior Wall & Soffet	Skim Coat	n/a	Firm Layered	Red White	100% Non- fibrous Material	No Asbestos Found	
1147620	42	Exterior Wall & Soffet	Skim Coat	n/a	Firm Layered	Red White	100% Non- fibrous Material	No Asbestos Found	
1147621	42 (Layer 1)	Exterior Wall & Soffet	Layer	n/a	Firm Homogeneous	White	100% Non- fibrous Material	No Asbestos Found	
lote 2	<i>further analysis</i> Unless otherwis Materials conta	ns of the EPA PLM me by electron microscop se specified, Tr=Trace ining vermiculity are n	oy. Batta re and correl ot good ca	ecommends ates to <0.2 ndidates for	s the NY 198.4 25% (based on r analysis using	over the Co a 400-poin standard I	hatfield method. t EPA point count). EPA 600 PLM protoc	col. Results may be lov	v-biased dı
6		ations caused by the r 004, known as "The C REP			ommenas tnat		REVIEWED BY;	RM Representation	zea asing

QA/QC Officer/Signatory

^{*}This report does not constitute endorsement by NVLAP and/or any other US government agencies.

^{*}The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

^{*}Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198.6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

^{*}WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole', Within this classification are: winchite, richterite, tremolite, and actinolite.



NY ELAP LAB# 11993 for PCM, PLM, TEM & Lead

Batch#:

BATTA LABORATORIES, LLC

A Certified MBE Company

Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764







Web: http://www.battaenv.com E-mail: battaenv@battaenv.com Dept. Code: PLM

CERTIFICATE OF PLM ANALYSIS Rev. #:

Page 16 of 16

COC#:	N/A		Test Metho	od: EPA/600	/R-93/116 in con	junction with	Batta SOP	Report Date:	07/23/20
Sampling	Data							Date Sampled:	07/16/20
BLI Project		R100815						Sampled By:	CLIENT
Project Na	me:	ORION ENV-020-	0277 Osborr	ne Elemen	ary- 225 Centr	al Ave, Lea		Date Analyzed:	07/23/20
	ple ID	Client-su	pplied Da	ta	Analytica	al Data	R	eported Results	
Lab	Client	Sample	Material	F===bl=0	Texture/	Color	Non-asbestiform	Asbestiform Co	magneste
Sample#	Sample#	Description	Туре	Friable?	Gross	Color	Components	Aspestitoriii Cui	Inponents
1147622	43	Exterior Wall	Skim Coat	n/a	Firm	Red White	100% Non- fibrous Material	No Asbestos Found	
					Layered	\$1 			
1147623	44	Exterior	Window Caulk	n/a	Firm	Brown	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous		iibious Materiai		

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note: Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

REVIEWED BY: ANALYST:

QA/QC Officer/Signatory

^{*}This report does not constitute endorsement by NVLAP and/or any other US government agencies

^{*}The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

^{*}Organically-bound, nontriable material may interfere with the accurate and reproducible quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198.6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or procision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

^{*}WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.



NW (A) (Lab Code: 101032-0

Corporate Headquarters 6 Garfield Way Newark, DE 19713

Email: BattaLaboratories@battaenv.com Web: https://battaenv.com **Ph**: (855) 86-BATTA **Fx**: (302) 737-5764



AIHA LAP, LL; 100448 NY ELAP: 11993 EPA Lab: DE:004 MD Lab ID: 263

of 01

P8000 Page 01

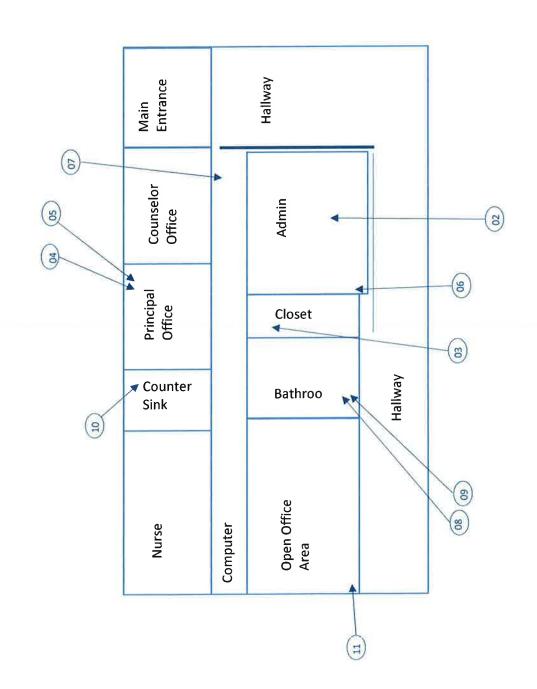
BL Project #:

CHAIN OF CUSTODY

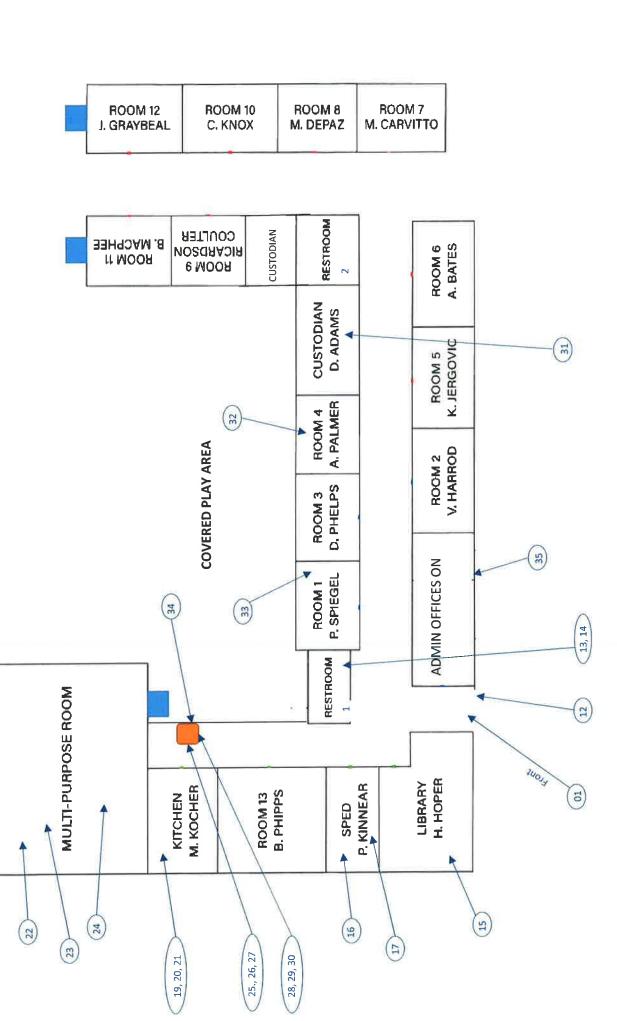
Name: OBIOI	Name: OBION ENVIBONMENTAL					(check one, refer to hates)	er to notes.)			
					☐ 3 Hour	3 Hours / Rush (Note 1)	1)	Cash		
Billing Addres:	Billing Address 1:34004 9TH AVE S, SUITE A-5	S, SUITE A-5			□ 24 Hou	24 Hours (Note 2)		∏ Visa/I	Visa/MasterCard/Discover	_
Billing Address	Billing Address 2: FEDERAL WAY, WA 98003	WA 98003	□ Picked □	Picked up by BATTA		48 Hours (Note 3)		Mone	Money Order	
Phone: 253-927-5233	27-5233		Shinper	Delivered by customer Shinned by customer	☑ 72 Hou	72 Hours (Note 4)		Durct	Purchase Order #	
Email: RMCF	EAK@ORIONES.N	Email: RMCPEAK@ORIONES.NET; NMILES@ORIONES.NET			5-10 D	5-10 Days (Note 5) 5 Days (Ear Wholese)	5-10 Days (Note 5)	Check#	#	
Results To: R,	Results To: RACHAEL MCPEAK					population of the		Other		
* Notes Reg	* Notes Regarding Turnaround Times (TATs)	mes (TATs)						Unit	Unit Price/Quote	
apply.	depend on the test reques.	- Specific Lines depend on the test requested. This may not be available for all types of analysis. Client must make arrangements with lab to guarantee TAT, Premium rate will be a purple of the property of	or analysis, Client	must make arrang	ements with lab t	to guarantee TAT	r. Premium rate will	□ Total	Total Payment	
3 Unless a spec 3 Unless a spec 4 Unless a spec 5 Unless a spec	inc une is requested, resulting time is requested.	Z Unless a specific time is requested, results are guaranteed by 5 p.m. on the following business day. The turnaround time of 24 hours may not be available with all analysis. 3 Unless a specific time is requested, results are guaranteed by 5p.m. on the 2rd business day. 4 Unless a specific time is requested, results are guaranteed by 5 p.m. on the 3rd business day. 5 Unless a specific time is requested, results are guaranteed before 5 p.m. of the 10th business day.	business day. The ess day. ess day. usiness day.	turnaround time o	if 24 hours may r.	not be available v	vith all analysis.	Refer	Reference #:	
			Clien	Client Project Information	rmation			п		
Project Name:	". OSBORNE ELEMENTARY	Project Location: 225 CENTRAL AVE LEAVENWORTH, WA		New Jerse Will results be u	New Jersey Solid Waste ? Will results be used for disposal in NJ? Yes ☐ NO [7]	sste ? oosal in NJ?	Project #: O20-0277		Sampled By: CAROLE SENG	SG
			Š	Sample Information						
				Sampling Info for Air /Surface Samples	for Air /Surfac	e Samples				
Lab Use	Field Sample ID#	Sample Location & Description	Sampling		-		4)		Laboratory Use Only	Ž
Î			Date & Time	Time Time	Rate	Volume/Area	l ype Method	Results	Date of Analysis	Analyst
147-543		SEE ATTACHED COC's	7/16/20				BULK PLM			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
>										
3										
Special Instr	Special Instructions From Client:						Laborato	Laboratory Use Only		
Sample Relir	Sample Relinquished By: X Carole Seng		Date: 7/20/20	Time:	Logged-in by:	-	-	Field Samules Accentable		
Sample Received By:	ived By:))))	Date: 7- 121 13	Time: 1000	2000		7 12 1550 ISSO	Sample #:		
				4		1	1	sample Condition:		

For drinking water samples: for results to be valid, lab must receive samples on ice and within 48 hours of collection. For air samples collected by NIOSH 7400 and 7402: in accordance with these NIOSH methods, two field blanks. (or 10% of the number of field samples submitted, whichever is creater) must be submitted and be analyzed with field samples.

For solid waste samples: Before solid waste materials such as soli; ash, sludge, dredge spolis, car ard disposed in New Jersey, they must undergo analysis following TCLP protocol. BATTA Labs is not responsible for waste disposal misrepresentations on this document. Document Control Item AMS



Sample Locations



ADMIN	MAS1		CT1	VS1/VS2 (300 sf)
	SNK1 X1	MISC1	WS1	
	CRT1 (160 sf)	CRT2 (25 sf)	INS1	
	CLK1	CLK2	CBM1	MISC1
ENTRANCE	WS2	MISC1		
	MAS2			
	CBM1			
RESTROOM 1	CRT2	WS3		
GIRLS & BOYS	CRT3	WS1		
OUTSIDE ADMIN				
400 sf-total				
RESTROOM 2	CRT2	WS3		
	CRT2	WS1		
ACROSS FROM ROOM 6	CNID	AAST		
OUTSIDE ADMIN			-	
400 sf-total				
LIBRARY	MAS1	SNK1 X1	CBM1	
	CT1	WS1	MAS3	
ROOM 1	MAS1	SNK1 X1		
	MAS3	MISC1	+	
	CT1	WS1		
	CBM1	VS1/VS2 (300 sf)		
200142	NAAC4	CNIZ4 V4		
ROOM 2	MAS1	SNK1 X1	-	
	MAS3	MISC1		
	CT1	WS1) cf)	
	CBM1	VS1/VS2 (300	51)	
ROOM 3	MAS1	SNK1 X1		
	MAS3	MISC1		
	CT1	WS1		
	CBM1	VS1/VS2 (300	sf)	
ROOM 4	MAS1	SNK1 X1		
	MAS3	MISC1		
	CT1	WS1		
	CBM1	VS2 (300 sf) - UNDER CARPET		
ROOM 5	MAS1	SNK1		
	MAS3	MISC1		
	CT1	WS1		
	CBM1	VS1/VS2 (300	sf)	
	CDIVIT	101/102 (500	3.,	

-				
ROOM 6	MAS1	SNK1 X1		
KOOIVI 6	MAS3	MISC1		
	CT1	WS1		
	CBM1	VS1/VS2 (30	nn cfl	
	CDIVIT	V31/ V32 (3C	0 31)	
ROOM 7	MAS1	SNK1 X1		
NOON! 7	MAS3	MISC1		
	CT1	WS1		
	CBM1	VS1/VS2 (30	0 sf)	
	CDIVIE	131, 132 (30	3.7	
ROOM 8	MAS1	SNK1 X1		
	MAS3	MISC1		
	CT1	WS1		
	CBM1	VS1/VS2 (30	0 sf)	
		, (0.0		
ROOM 9	MAS1	SNK1 X1		
	MAS3	MISC1		
	CT1	WS1		
	CBM1	VS1/VS2 (30	0 sf)	
ROOM 10	MAS1	SNK1 X1		
	MAS3	MISC1		
	CT1	WS1		
	CBM1	VS1/VS2 (30	0 sf)	
ROOM 11	MAS1	SNK1 X2		
	MAS3	MISC1		
	CT1	WS1		
	CBM1	VS1/VS2 (30	0 sf)	
ROOM 12	MAS1	SNK1 X1		
	MAS3	MISC1		
	CT1	WS1		
	CBM1	VS1/VS2 (30	0 sf)	
SPECED	MAS2	MISC1		
	MAS3	WS1		
	CT1	CBM2		
	CBM1			
ROOM 13	MAS1	SNK1 X1		
	MAS2	WS1		
	CT1	VS1/VS2 (30	0 sf)	
	CBM1			

KITCHEN	MAS5	SM1/WS4 (1200 sf)	
	WS1	VS1 (MAS5 under VS- 800 sf)	
ABOVE CEILING TIL	E OUTSIDE KIT	CHEN	
	TS1		
	TS2		
CUSTODIAN OFFICE			
ACROSS FROM	WS1	CBM1	
ROOM 6	CT1	VS1 (300 sf)	
TUNNELS - N	OT ACCES	SIBLE	

ORION ENVIRONMENTAL SERVICES ON SAMPLE

SAMPLE CUSTODY FORM 2053 SG PROJECT NUMBER 030-0372

CLIENT:	W C	NUIGEN MARKED	SITE: ()Sec	SEDERS ASON	Ocoso co	REL	RELINOUISHED BY:	D BY:	L	
ADDRESS:	Ü	YON RIG	ES	22.50	ZRI AUE	DAT	DATE / TIME:	5	7	
	HOVE	08V 10 83835	3083)	NEWBORTH	W/W				7	1
	6	2.5				REC	RECEIVED BY:	7/1	7/0	D,
TELEPHONE:	ONE: A	1384-1861	INSPECTOR: (5 3(000)	DIV2	DAT	DATE / TIME:			
EMAIL:			DATE SAMPLED:	LED: JUIN	(1,31)	DCIC				
				(A)	,					
SAMPLE NO.	LAB NO.	MATERIAL DESCRIPTION	PTION	MATERIAL ID	LAYER AND	LOCATION OF	QTY.	TREAT	% TYPE	E OTHER FIBERS
0/	5	CARDET	ths	MAS 1	BRITICH BHELL	Stract Surrey				
(J.S.)	30	Carpit	75	CSMU)	CONCUCA	CONCECTS NOWING				
03	71	VINY) STREFIND	GRAY SYL YEMANT	VSI USD	CONTRETE	onmete Closet Almoss	mars	1,080 1,080	\$ 60x)
hΟ	23	FOOT STORY OF INSCIPLING	ths	1301		podionizo	\ \{			
20	33	301 GUNRO	5- -	(1)		barrab				
90	34	UNY) PADER MASTIC WAINSONRO	549 550 551	inlsci	an in the	Nan.		-		
07	Se	2" COUR GOOK	555	(Bm)						

PAGE OP

の百一

555

S

Process A ORION ENVIRONMENTAL SERVICES

SAMPLE CUSTODY FORM 205356 PROJECT NUMBER (120-U-272

CLIENT: V ENVIRONMENTAL	SITE: ()SERIGIVE ELEM ()EMO	RELINQUISHED BY: A
ADDRESS: DO GON RIG	ADDRESS: 225 (ENTRA) AUE	DATE / TIME:
Hay 08 in 83835	LEAUSININORTY VIVA	C. C. C. C.
		RECEIVED BY: $1/20/20$
TELEPHONE: 353-439-4364	INSPECTOR: (TOCO) & SENIA	DATE / TIME:
EMAIL:	DATE SAMPLED: JUN 16 17 2020	

SAMPLE NO.	LAB NO.	MATERIAL DESCRIPTION	MATERIAL ID	LAYER AND SUBSTRATE	LOCATION OF MATERIAL	QTY.	TREAT	%	TYPE	OTHER FIBERS
00	3	Crout mostic	6120		Anny floce 25 st	floca	35 st			
10	38	BIRCK UNDERCORPING	SNEI		NURS E					
	39	JUMILGOND (WOIR) SUI	I SM		DOMIN					
13	30	6020ch (562 6000th	WSA		ENTICS HAIL UM	No.			-	
13	31	Gramic File suy	एता ३		Bothrecoms 1	1 sc	7 UNOILS &	o 2		
M	33	Jaint ampano set Wall Gooko (Radud)	W53		7) 	9		
SI	33	CANEL GOORD 5 5G8 ORCK BROWN (MOSTILSSM	MOSS		CBRBS					
9	34	J' MUE GASE 57.	(BM3)		CB J&dS					
		SERVIN MOSTING STREET						PA	PAGE DOF	OF

Proposts ORION ENVIRONMENTAL SERVICES

SAMPLE CUSTODY FORM 2053SC PROJECT NUMBER 030-037

CLIENT:		10100000000000000000000000000000000000	SITE: ()SQ	SK SNOUDS	Dry3() (72)	RELI	RELINOUISHED BY:			
ADDRESS:	Q	50N R/9	ADDRESS: 3	in	A) AUE	DATE	DATE / TIME:	3		
	HOW	18N 10 83835	3083)	SENCINORETH	NN				1	
						RECE	RECEIVED BY:	$I \cup CI$	\cup \subset	
TELEPHONE:		723-43d-43 <i>cd</i>	INSPECTOR: (3000	SENIA	DATE	DATE / TIME:	1		
EMAIL:			DATE SAMPLED: JUNA	CED: JUN	16:17	JOJU				
				0						
SAMPLE	LAB	MATERIAL DESCRIPTION	TION	MATERIAL	LAYER	LOCATION	QTY. TREAT	AT %	TYPE	OTHER
			441	e e	SUBSTRATE	MATERIAL				FIBERS
Č	,	CADINS BERN	hts	173000		CFD				
<u> </u>	क्	MEN	StS	(MKW.)						
0	J. C.	MASHC	345	ISA STOW	151	KHUNSIN	2	J.		
0	$\frac{2}{2}$	7)21313) COOH	++5	7000) }			
6	رد	SAS COST	sts ets	$\rho_{\rm JWJ}$	COON	KHOKK	090/			
	5	PRESON BARAKA	580	722	١٠٠٠ (,				
	28	San 32	185	(~)		[
8	3	_		1210						
7	85	100 CD	185	Sm						
		NON SE'D	700 583			· \	8			
23	0	UNG! FLOORING FIND	Y87	MISCZ		1 (A)	70)		i	
23	11	12" GRANY 100E B	585 3009 286	(13m) 3		1	to 009E	力		
- Ĉ	5	7	500	ا	LEMONE	4	2 - 1 -	-8		
70	\$ 2	UNATIBOARD	283	(NO)		12KO	HERPIT OF	Po		

PAGE 3

ORION ENVIRONMENTAL SERVICES

SAMPLE CUSTODY FORM 2053SC PROJECT NUMBER 030-0377

							OTHER FIBERS									CTO 1
			6	þ			TYPE									PAGE 4
1 1/2 S	7			-			%					7				ď
ED BY:	<u>)</u>		70 C:X	7			TREAT				2	700	24	9		
RELINQUISHED BY:	DATE / TIME:		RECEIVED BY	DATE / TIME:			QTY.				350	3	.\	1000 1000 1000 1000 1000 1000 1000 100		な
REL	DAT		REC	DAT	DEDG		LOCATION OF MATERIAL	2) HINGS			14718		-)	ONSTANON	Roog	300 8
JUERNO	A) AUE	NV		80	्र ८३ है।		LAYER AND SUBSTRATE							USI, J. CONDETE		
RAGINE ELEM	DS: (Patr	NINORTH		52 3MOOD	AMPLED: JUNA	ח	MATERIAL ID	15.	4	-)	4513		-)	1,51,2	NS1,2	
80	ADDRESS:	3083)		INSPECTOR:	DATE SAMP		ر در ا	540	541	163	243	144	242	297	599	6.25
SITE:	AD	83835	6	138.6	DA		MATERIAL DESCRIPTION	E Warp DED FITTING			DE WARF)		CMOSAL	OFS	JESOW JO
NVIRONMENTA	PUN XICI	01 N3(, : 10	153-439			MA	371 PIPE		-7	4" P		\rightarrow	1551 Onek	CSJ.	(ARCMP
2	Q	HOW DEV		NE: 'A			LAB NO.	43	hh	Sh	9h	Ch	Ьh	bh	90	
CLIENT:	ADDRESS:			TELEPHONE:	EMAIL:		SAMPLE NO.	35	36	3)	80	99	30	3)	33	

ORION ENVIRONMENTAL SERVICES	ENDON'S SAMPLE CUSTODY FORM 2053 S.G.	356 PROJECT NUMBER [130-U37]
CLIENT: V ENVIOUNTENTOL	SITE: ()SPORINE ELEM ()EMD	RELINQUISHED BY:
ADDRESS: DO GON XIG	ADDRESS: 235 (ENTRA) AUE	DATE / TIME:
HAYDEN 10 83835	CERUZUINORAM UVIA	
		RECEIVED BY: - / J M] J A
TELEPHONE: 453-439-4364	INSPECTOR: (TOCO) & SENIR	DATE/TIME: // <
EMAIL:	DATE SAMPLED: JUNA 16 17 2020	

OTHER FIBERS						
TYPE						
%						
TREAT	Back					,
QTY.		week?				
LOCATION OF MATERIAL	Q00m	JUSON GODIN	MOMIN			/
LAYER AND SUBSTRATE						
MATERIAL ID	CUKI 2001 SIDE	751W	CYKS			
MATERIAL DESCRIPTION	WINDOWN CAVIK LOI INTERIOR WINDOWS CHASSICA	FIGERGIASS PIPE WRO PLOS	COUNTY			
LAB NO.		SZ	53			
SAMPLE NO.	33 51	3	35			

PAGES OF

ORION ENVIRONMENTAL SERVICES CONTROLLE CUI

SAMPLE CUSTODY FORM 2053SG PROJECT NUMBER 030-0377

CLIENT:	2	Wiggermental	SITE: ()SE	10313 3NSC	M UEMO	REL	RELINQUISHED BY:	\	l	
ADDRESS:	, DO	GON XIA	ADDRESS:	135 (RILL)	-	DAT	DATE / TIME:	1	7	
	TOL	1040EN 10 83835	(Sauson)	NINORTY	WW				1	
	•					REC	RECEIVED BY:	$U \subseteq \mathbb{R}$	(リレー)	
TELEPHONE:		J23-434-4364	INSPECTOR	FOR: (TOPO) {	SENIA	DAT	DATE / TIME:	مام	مامح	
EMAIL:			DATE SAMPLED: JUN	LED: CLON	(18:17	TOTA				
				2			ja Ja			
SAMPLE NO.	LAB NO.	MATERIAL DESCRIPTION	th)	MATERIAL ID	LAYER	LOCATION	QTY.	TREAT	% TYPE	OTHER FIBERS
38	54	Stimmont Stayo Gonzo	605	MSG	SUBSTRAIL	STATION OF JOHN	ts tubes			
	/	UNDORY BARRIER	ber l			C (INN)				
3)	SS	Skin Coat Soft & Walls	610	Sma		INterpo	+2,1,1			
38	35	şim.	(0)3			5 -	5			
30	57		519	and the second second						
9)	28		613							
7	83		613							
9	00	-)	621	->						

PAGE 6 OF 7

ORION ENVIRONMENTAL SERVICES

SAMPLE CUSTODY FORM 305356 PROJECT NUMBER 030-0372

CLIENT: V ENVISONMENTOL	SITE: OSPARNE EVEM OEMO	RELINQUISHED BY:
ADDRESS: PO GON XIG	ADDRESS: 235 (ENTRA) AUE	DATE/TIME:
HAYDEN 10 83835	LEAUEN(NORTH NIN	
		RECEIVED BY:/
TELEPHONE: 453-439-4369	INSPECTOR: (TOON) SENT	DATE/TIME: //d//d/
EMAIL:	DATE SAMPLED: JUNY 16 17 2020	

OTHER FIBERS				a.		
TYPE						
%						
TREAT						
QTY.						
LOCATION OF MATERIAL	(MM +M3					
LAYER AND SUBSTRATE						
MATERIAL ID	Sma	CLK3				
MATERIAL DESCRIPTION ルヤチ	WHERION SUMPRIT					
LAB NO.	19	63				
SAMPLE NO.	43	44				

PAGE > OF 7



ATTACHMENT 2 Lead Paint Findings and Recommendations

Component Table
Calibration Sheet
Performance Characterization Sheet (PCS)





LEAD PAINT COMPONENT TABLE

A total of forty-six (46) samples consisting of various suspect materials were processed regarding main them construction components for lead in construction. Various painted cabinets contained measurable concentrations of lead paint. See attached Table.

Osborne Elementary

Lead Based Paint Limited Assessment Report

1630 CALIBRATION White 0.00 Pass 1631 CALIBRATION White 0.00 Pass 1632 CALIBRATION White 0.00 Pass 1633 CALIBRATION Red 1.00 Pass 1634 CALIBRATION Red 1.00 Pass 1634 CALIBRATION Red 1.00 Pass 1635 Front Entrance Metal CALIBRATION Red 0.00 Pass 1637 Front Entrance Morod Bench 7.0 Pass 1638 Admin Offices Panelboard Windlow Frame Red 0.00 Negative 1643 Front Entrance Wallboard Wall Beige 0.00 Negative 1643 Front Door Intentior Mallboard Wall Red 0.00 Negative 1644 Health Room Wood Door Beige 0.00 Negative 1643 Health Room Wood Door <th>Index</th> <th>Room</th> <th>Substrate</th> <th>Substrate Component Component Component</th> <th>Color</th> <th>PbC</th> <th>Result</th>	Index	Room	Substrate	Substrate Component Component Component	Color	PbC	Result
CALIBRATION White 0.00 CALIBRATION White 0.00 CALIBRATION White 0.00 CALIBRATION Red 0.00 Front Entrance Wood CALIBRATION Red 1.00 Front Entrance Wood Window Frame Red 0.00 1.00 Front Entrance Wood Window Frame White 0.00 0.00 Admin Offices Woold Window Frame Beige 0.00 0.00 Admin Offices Woold Wall Beige 0.00 0.00 Admin Offices Woold Wall Beige 0.00 0.00 Admin Offices Woold Wall Beige 0.00 0.00 Admin Offices Wallow Wall Beige 0.00 0.00 Admin Offices Wallow Wall Beige 0.00 0.00 Admin Offices Wall Male Male 0.00 0.00 Admin Offices <	1630			CALIBRATION	White	0.00	Pass
CALIBRATION White 0.00 Ameria CALIBRATION Red 1.00 Incort Entrance Metal CALIBRATION Red 1.00 Front Entrance Wood Window Frame White 0.00 Admin Offices Wood Window Frame White 0.00 Admin Offices Panelboard Wall Beige 0.00 Restroom 1 / Girls Wallboard Wall Beige 0.00 Front Door Interior Moltal Frame 0.00 Health Room Wood Door Brown Stain 0.00 Health Room Wood Door Blue 0.00 Health Room Wood Door Blue 0.00 Room 1 Wood Door Frame Blue 0.00 Room 2 MDF Cabinets 0.00 0.00 Room 5 MDF Cabinets 0.00 0.00 Room 5 MDF Cabinets 0.00 0.00 Room 5 MDF	1631			CALIBRATION	White	0.00	Pass
CALIBRATION Red 1.00 Front Entrance Metal CALIBRATION Red 1.00 Front Entrance Wood Door Red 1.00 Admin Offices Wood Window Frame White 0.00 Admin Offices Wood Window Frame 0.00 0.00 Admin Offices Panelboard Wall Beige 0.00 Restroom 1 / Girls Wallboard Wall Beige 0.00 Restroom 1 / Girls Wallboard Wall Beige 0.00 Incomplex on the file Mortal Frame Red 0.00 Incomplex on the file Mortal Mord 0.00 0.00 Incomplex on the file Mortal Mord 0.00 0.00 Incomplex on the file Mortal Mord 0.00 0.00 Incomplex on the file Mortal 0.00 0.00 0.00 Incomplex on the file Mortal 0.00 0.00 0.00 Incomplex on the file <td>1632</td> <td></td> <td></td> <td>CALIBRATION</td> <td>White</td> <td>0.00</td> <td>Pass</td>	1632			CALIBRATION	White	0.00	Pass
Front Entrance Metal CALIBRATION Red 1.00 Front Entrance Metal Door Red 1.00 Admin Offices Wood Window Frame White 0.00 Admin Offices Wallboard Wall 0.00 0.00 Admin Offices Panelboard Wall 0.00 0.00 Restroom 1 / Girls Panelboard Wall 0.00 0.00 Murses Office Moral Frame Red 0.00 Murses Office MDF Cabinets 0.00 0.00 Health Room Wood Door Blue 0.00 0.00 Health Room 1 Wood Door Blue 0.00 0.00 Room 1 Wood Door Blue 0.00 0.00 Room 2 Wood Door Frame Blue 0.00 0.00 Room 5 MDF Cabinets 0.40 0.40 0.00 Room 5 MDF Cabinets 0.40	1633			CALIBRATION	Red	1.00	Pass
Front Entrance Metal CAUBRATION Red 1.00 Front Entrance Wood Benrch Tan 0.00 Admin Offices Wood Willboard White 0.00 Admin Offices Wallboard Wall Beige 0.00 Restroom I Victes Panelboard Wall Beige 0.00 Restroom I Victes Metal Feige 0.00 I Health Room Mord Cabinets Red 0.00 I Health Room Wood Door Brown Stain 0.00 I Health Room Wood Door Blue 0.00 I Health Room Wood Door Blue 0.00 I Room 1 Wood Door Blue 0.00 I Room 2 Wood Door Fame 0.00 0.00 I Room 5 MDF Cabinets 0.40 0.40 I Room 5 MDF Cabinets 0.40 0.40 I Room 6 MDF Cabinets 0	1634			CALIBRATION	Red	1.00	Pass
Front Entrance Metal Door Red 0.00 Front Entrance Wood Bench Tan 0.00 Admin Offices Wallboard Window Frame White 0.00 Admin Offices Panelboard Wall Beige 0.00 Admin Offices Panelboard Wall Beige 0.00 Restroom 1 / Girls Panelboard Wall Beige 0.00 Front Door Interior Mortal Frame Red 0.00 Health Room Wood Door Brown Stain 0.00 Health Room Wood Door Blue 0.00 Room 1 Wood Door Blue 0.00 Room 2 MDF Cabinets Uaptice 0.30 Room 5 MDF Cabinet	1635			CALIBRATION	Red	1.00	Pass
Admin Offices Wood Bench Tan 0.00 Admin Offices Wood Window Frame White 0.00 Admin Offices Wallboard Wall Beige 0.00 Restroom 1 / Girls Panelboard Wall Beige 0.00 Restroom 1 / Girls Matal Frame Red 0.00 Front Door Interior Metal Frame Red 0.00 Health Room Wood Door Brown Stain 0.00 Health Room Wood Bed Black 0.00 Health Room Wood Bed Blue 0.00 Health Room Wood Bed Blue 0.00 Room 1 Wood Door Blue 0.00 Room 2 WDF Cabinets 0.00 Room 5 MDF Cabinets 0.40 Room 5 MDF Cabinets 0.00 Room 6 MDF Cabinets 0.00 Room 6 MDF	1636	Front Entrance	Metal	Door	Red	0.00	Negative
Admin Offices Wood Window Frame White 0.00 Admin Offices Wallboard Wall Blue 0.00 Restroom 1 / Girls Marelboard Wall Blue 0.00 Restroom 1 / Girls Metal Frame Red 0.00 Invaes Office MDF Cabinets Red 0.00 Health Room Wood Door Blue 0.00 Health Room Wood Bed Blue 0.00 Health Room Wood Door Frame Blue 0.00 Room 1 Wood Door Frame Maroon 0.00 Room 5 MDF Cabinets 0.40 Room 5 MDF Cabinets 0.40 Room 5 MDF Cabinets 0.00 Room 5 MDF Cabinets 0.00 Room 6 MDF Cabinets 0.00 Room 6 MDF Cabinets 0.00 Room 6 MDF Cabinets 0.00<	1637	Front Entrance	Wood	Bench	Tan	0.00	Negative
Admin Offices Wallboard Wall Beige 0.00 Restroom 1 / Girls Wallboard Wall Blue 0.00 Front Door Interior Metal Frame Red 0.00 Nurses Office MDF Cabinets Red 0.00 Health Room Wood Door Blue 0.00 Health Room Wood Bed Blue 0.00 Room 1 Wood Door Blue 0.00 Room 2 MDF Cabinets 0.00 0.00 Room 5 MDF Cabinets 0.00 0.00 Room 6 MDF Cabinets 0.00 0.00 Room 6 MDF Cabinets 0.00 0.00 Room 6 MDF Cabinets 0.00 0.00	1638	Admin Offices	Wood	Window Frame	White	0.00	Negative
Admin Offices Panelboard Wall Blue 0.00 Front Door Interior Metal Frame Red 0.00 Front Door Interior MDF Cabinets Red 0.00 Health Room Wood Door Brown Stain 0.00 Health Room Wood Window Frame Blue 0.00 Room 1 Wood Door Frame Blue 0.00 Room 1 Wood Door Frame Blue 0.00 Room 5 MDF Cabinets 0.00 0.00 Room 5 MDF Cabinets 0.00 0.00 Room 5 MDF Cabinets Maroon 0.00 Room 5 MDF Cabinets 0.00 0.00 Room 6 MDF Cabinets Ime Green 0.00 Room 6 MDF Cabinets 1.1ght Red 0.00 Room 6 MDF Cabinets 0.00 0.00 Room 6 MDF Cabinets 0.00<	1639	Admin Offices	Wallboard	Wall	Beige	0.00	Negative
Restroom 1 / Girls Wallboard Wallb Frame Red 0.00 Front Door Interior Mbtal Cabinets Red 0.00 Health Room Wood Door Brown Stain 0.00 Health Room Wood Bed Blue 0.00 Room 1 Wood Door Blue 0.00 Room 2 Wood Door Frame Maroon 0.00 Room 5 MDF Cabinets 0.80 0.80 Room 5 MDF Cabinets 0.80 0.80 Room 5 MDF Cabinets 0.40 0.00 Room 6 MDF Cabinets 1.ight Red 0.40 Room 5 MDF Cabinets 0.00 0.00 Room 6 MDF Cabinets 0.00 0.00 Room 6 MDF Cabinets 1.ime Green 0.00 Room 6 MDF Cabinets 0.00 0.00 Room 6 MDF Cabinets	1640	Admin Offices	Panelboard	Wall	Blue	0.00	Negative
Front Door Interior Metal Frame Red 0.00 Nurses Office MDF Cabinets Red 0.00 Health Room Wood Door Blue 0.00 Room 1 Wood Door Blue 0.00 Room 2 Wood Door Frame Blue 0.00 Room 3 Moretal Whodw Frame Blue 0.00 Room 5 MDF Cabinets 0.00 0.00 Room 5 MDF Cabinets 0.40 0.60 Room 5 MDF Cabinets Light Red 0.40 Room 5 MDF Cabinets 0.00 0.60 Room 6 MDF Cabinets Light Red 0.00 Room 6 MDF Cabinets 0.00 0.00 <td>1641</td> <td>Restroom 1 / Girls</td> <td>Wallboard</td> <td>Wall</td> <td>Beige</td> <td>0.00</td> <td>Negative</td>	1641	Restroom 1 / Girls	Wallboard	Wall	Beige	0.00	Negative
Murses Office MDF Cabinets Red 0.00 Health Room Wood Door Black 0.00 Room 1 Wood Door Blue 0.00 Room 1 Wood Door Frame Blue 0.00 Room 2 Wood Door Frame Maroon 0.00 Room 5 MDF Cabinets 0.00 0.00 Room 5 MDF Cabinets 0.40 0.00 Room 5 MDF Cabinets 0.18th Red 0.00 Room 5 MDF Cabinets 0.18th Red 0.00 Room 6 MDF Cabinets 0.18th Red 0.00 Room 6 MDF Cabinets 0.00 0.00	1642	Front Door Interior	Metal	Frame	Red	0.00	Negative
Health Room Wood Door Black 0.00 Health Room Wood Bed Blue 0.00 Room 1 Wood Door Blue 0.00 Room 2 Wood Door Frame Blue 0.00 Room 5 MDF Cabinets 0.00 0.00 Room 5 MDF Cabinets 0.7ange 0.80 Room 5 MDF Cabinets 0.60 0.60 Room 5 MDF Cabinets 0.60 0.60 Room 6 MDF Cabinets 0.60 0.60 Room 6 MDF Cabinets 0.00 0.00	1643	Nurses Office	MDF	Cabinets	Red	0.00	Negative
Health Room Metal Window Frame Black 0.00 Health Room Wood Door Blue 0.00 Room 1 Metal Whodw Frame Blue 0.00 Room 2 Wood Door Frame Blue 0.00 Room 5 MDF Cabinets 0.00 0.00 Room 5 MDF Cabinets Dark Red 0.60 0.60 Room 5 MDF Cabinets 0.00 0.00 0.00 Room 6 MDF Cabinets Light Red 0.00 0.00 Room 6 MDF Cabinets Maroon 0.00 0.00 Room 6 MDF Cabinets Lime Green 0.00 0.00 Room 6 MDF Cabinets 0.00 0.00 0.00 Room 6 MDF Cabinets 0.00 0.00 0.00 Room 6 MDF Cabinets 0.00 0.00 0.00 Room 6 MDF Cabinets	1644	Health Room	Wood	Door	Brown Stain	0.00	Negative
Health Room 1 Wood Bed Blue 0.00 Room 1 Wood Door Frame Blue 0.00 Room 2 Wood Door Frame Maroon 0.00 Room 5 MDF Cabinets Orange 0.00 Room 5 MDF Cabinets 0.40 0.60 Room 5 MDF Cabinets 0.40 0.40 Room 5 MDF Cabinets 0.40 0.40 Room 6 MDF Cabinets Uime Green 0.00 Room 6 MDF Cabinets 0.00 0.00 Room 6 MDF Cabinets 0.00 0.00	1645	Health Room	Metal	Window Frame	Black	0.00	Negative
Room 1 Wood Door Frame Blue 0.00 Room 2 Wood Door Frame Maroon 0.00 Room 5 MDF Cabinets Orange 0.80 Room 5 MDF Cabinets Dark Red 0.60 Room 5 MDF Cabinets 0.40 0.60 Room 6 MDF Cabinets I.ime Green 0.00 Room 6 MDF Cabinets Blue 0.00 Room 6 MDF Cabinets 1.me Green 0.00	1646	Health Room	Wood	Bed	Blue	0.00	Negative
Room 1 Metal Wndow Frame Blue 0.00 Room 2 Wood Door Frame Maroon 0.00 Room 5 MDF Cabinets Dark Red 0.80 Room 5 MDF Cabinets Light Red 0.40 Room 5 MDF Cabinets Maroon 0.00 Room 6 MDF Cabinets Lime Green 0.00 Room 6 MDF Cabinets Blue 0.00 Room 6 MDF Cabinets Teal 0.00 Room 6 MDF Cabinets Purple 0.00	1647	Room 1	Wood	Door	Blue	0.00	Negative
Room 2 Wood Door Frame Maroon 0.00 Room 5 MDF Cabinets Orange 0.80 Room 5 MDF Cabinets Light Red 0.60 Room 5 MDF Cabinets Maroon 0.00 Room 6 MDF Cabinets Lime Green 0.00 Room 6 MDF Cabinets Blue 0.00 Room 6 MDF Cabinets Teal 0.00 Room 6 MDF Cabinets 0.00 0.00 Room 6 MDF Cabinets 0.00 0.00	1648	Room 1	Metal	Wndow Frame	Blue	0.00	Negative
Room 5 MDF Cabinets Orange 0.80 Room 5 MDF Cabinets 0.60 0.60 Room 5 MDF Cabinets 0.00 0.00 Room 6 MDF Cabinets 0.00 0.00 Room 6 MDF Cabinets 0.00 0.00 Room 6 MDF Cabinets 0.10 0.00 Room 6 MDF Cabinets 0.00 0.00 Room 6 MDF Cabinets 0.00 0.00	1649	Room 2	Wood	Door Frame	Maroon	0.00	Negative
Room 5 MDF Cabinets Light Red 0.60 Room 5 MDF Cabinets Maroon 0.00 Room 6 MDF Cabinets Lime Green 0.00 Room 6 MDF Cabinets Dlue 0.00 Room 6 MDF Cabinets Teal 0.10 Room 6 MDF Cabinets Teal 0.00	1650	Room 5	MDF	Cabinets	Orange	0.80	Positive
Room 5 MDF Cabinets Light Red 0.40 Room 6 MDF Cabinets Lime Green 0.00 Room 6 MDF Cabinets Blue 0.00 Room 6 MDF Cabinets Teal 0.10 Room 6 MDF Cabinets Purple 0.10	1651	Room 5	MDF	Cabinets	Dark Red	09:0	Positive
Room 5 MDF Cabinets Maroon 0.00 Room 6 MDF Cabinets Lime Green 0.00 Room 6 MDF Cabinets 0.00 0.00 Room 6 MDF Cabinets Teal 0.10 Room 6 MDF Cabinets 0.10 0.00	1652	Room 5	MDF	Cabinets	Light Red	0.40	Positive
Room 6 MDF Cabinets Lime Green 0.00 Room 6 MDF Cabinets Blue 0.00 Room 6 MDF Cabinets Teal 0.10 Room 6 MDF Cabinets Purple 0.00	1653	Room 5	MDF	Cabinets	Maroon	0.00	Negative
Room 6 MDF Cabinets Blue 0.00 Room 6 MDF Cabinets Teal 0.10 Room 6 MDF Cabinets Purple 0.00	1654	Room 6	MDF	Cabinets	Lime Green	0.00	Negative
Room 6 MDF Cabinets Teal 0.10 Room 6 MDF Cabinets Purple 0.00	1655	Room 6	MDF	Cabinets	Blue	0.00	Negative
Room 6 MDF Cabinets Purple 0.00	1656	Room 6	MDF	Cabinets	Teal	0.10	Positive
	1657	Room 6	MDF	Cabinets	Purple	00:00	Negative

Osborne Elementary

Lead Based Paint Limited Assessment Report

Result	Positive	Negative	Positive	Positive	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Pass	Pass	Pass	
PbC	0:20	0.00	06:0	0.50	0.00	0.00	00:00	00:00	00:00	00:00	00:00	00:00	00:0	00:00	00:00	00:00	00.00	00:00	00.00	00.00	00:00	00.00	00.00	00:00	00:00	00.00	0.00	1.00	1.00	1.00	
Color	Dark Red	Maroon	Orange	Light Red	Lime Green	Off White	Brown	Off White	Off White	Red	Beige	White	Green	Blue	White	Blue	White	Blue	Black	Red	Red	Red	Orange	White	White	White	White	Red	Red	Red	
ate Component C	Cabinets	Cabinets	Cabinets	Cabinets	Cabinets	Fire Door - Exterior	Wood	Door Jam	Door	Exterior Door	Wall	Wall	Wall	Wall	Wall	Wall	Beam	Door	Window Frame	Beam	Siding	Roof	Roof	Roof	CALIBRATION	CALIBRATION	CALIBRATION	CALIBRATION	CALIBRATION	CALIBRATION	
Substrate	MDF	MDF	MDF	MDF	MDF	Metal	Walls	Metal	Wood	Metal	Wallboard	Stucco	Stucco	Stucco	Stucco	Stucco	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal							
Room	Room 7	Room 7	Room 7	Room 7	Room 10	Room 11	Multi Purpose Room	Multi Purpose Room	Multi Purpose Room	Multi Purpose Room	Custodian Closet	Exterior	Exterior	Exterior	Exterior - Front Entry	Covered Play Area	Roof	Roof	Roof	Roof											
Index	1658	1659	1660	1661	1662	1663	1664	1665	1666	1667	1668	1669	1670	1671	1672	1673	1674	1675	1676	1677	1678	1679	1680	1681	1682	1683	1684	1685	1686	1687	

Performance Characteristic Sheet

EFFECTIVE DATE:

September 24, 2004

EDITION NO.: 1

MANUFACTURER AND MODEL:

Make:

Niton LLC XLp 300

Tested Model: Source:

109Cd

Note:

This PCS is also applicable to the equivalent model variations indicated

below, for the Lead-in-Paint K+L variable reading time mode, in the XLi and

XLp series:

XLi 300A, XLi 301A, XLi 302A and XLi 303A. XLp 300A, XLp 301A, XLp 302A and XLp 303A. XLi 700A, XLi 701A, XLi 702A and XLi 703A. XLp 700A, XLp 701A, XLp 702A, and XLp 703A.

Note: The XLi and XLp versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm² (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is <u>not</u> needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm²)
Results not corrected for substrate bias on any	Brick	1.0
substrate	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

Conduct XRF retesting at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

	Testing Times Using K+L Reading Mode (Seconds)													
		All Data		Median for laboratory-measured lead levels (mg/cm²)										
Substrate	25 th Percentile	Median	75 th Percentile	Pb < 0.25	0.25 ≤ Pb<1.0	1.0 <u>≤</u> Pb								
Wood Drywall	4	11	19	11	15	11								
Metal	4	12	18	9	12	14								
Brick Concrete Plaster	8	16	22	15	18	16								

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.



Osborn Elementary School **Hazardous Materials Demolition Survey**

ATTACHMENT 3 PCB and Fluorescent Fixtures Findings and Recommendations



Fluorescent Light Ballasts

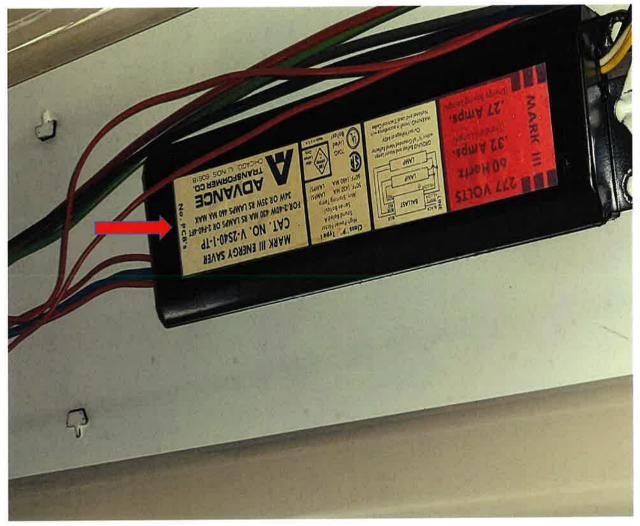
Fluorescent light ballasts were randomly examined throughout the buildings The ballasts of these fixtures we identified were either electronic or ballasts were marked as "No PCB"



Ballast marked as "No PCB"







Ballast marked as "No PCB"



Fluorescent Light Tubes



Unless identified as "Truefit LED Tube, we estimated 637 fluorescent bulbs as mercury containing.





ATTACHMENT 4 Photographs

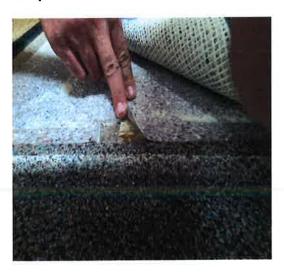
SAMPLE #1 MAS1



SAMPLE #2 MAS2



SAMPLE #3 VS1/VS2



SAMPLE #4 INS1



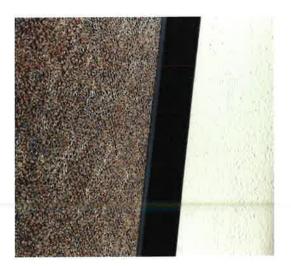
SAMPLE #5 CT1



SAMPLE #6 MISC1



SAMPLE #7 CBM1



SAMPLE #8 CRT1



SAMPLE #9 CRT2



SAMPLE #10 SNK1



SAMPLE #11 WS1



SAMPLE #12 WS2



SAMPLE #13 CRT3



SAMPLE #14 WS3



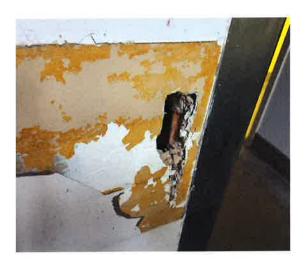
SAMPLE #15 MAS3



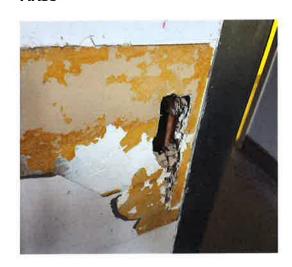
SAMPLE #16 CBM2



SAMPLE #17 MAS4



SAMPLE #18 MAS5



SAMPLE #19 WS4



SAMPLE #20, 21 SM1



SAMPLE #22 MISC2



SAMPLE #23 CBM3



SAMPLE #24 WS5



SAMPLE #25, 26, 27 TSI1



SAMPLE #28, 29, 30 TSI2



SAMPLE #31 VS1



SAMPLE #32 VS2



SAMPLE #33, 35 CLK1, CLK2



SAMPLE #35 CLK2



SAMPLE #36 WS6



SAMPLE #37, 38, 39, 40, 41, 42, 43 SM2



SAMPLE #44 CLK3





Osborn Elementary School **Hazardous Materials Demolition Survey**

ATTACHMENT 5 Certifications

AHERA

BUILDING INSPECTOR REFRESHER CERTIFICATE

This is to certify that

Nate Reynolds

has attended and satisfactorily completed all requirements to maintain accreditation as an AHERA Building Inspector in accordance with the Toxic Substance Control Act Title (Section 206) and 40 CFR 763.

Accreditation No. BI/R-NES-090319-08

Course Date: Sept. 3rd, 2019 Valid through: Sept. 3rd, 2020

rough: Sept. 3rd , 2020

Patricia "PJ" Journey

NOW Environmental Services, Inc. 34004 – 9th Avenue South, Suite # 12 Federal Way, Washington 98003 (253) 927-5233

AHERA

BUILDING INSPECTOR REFRESHER CERTIFICATE

This is to certify that

Carole A. Seng

has attended and satisfactorily completed all requirements to maintain accreditation as an AHERA Building Inspector in accordance with the Toxic Substance Control Act Title (Section 206) and 40 CFR 763.

Accreditation No. BI/R-NES-040120-04

Course Date: April 1, 2020 Valid through: March 31, 2021

Nelson Miles

NOW Environmental Services, Inc. (EPA Provider 944) 34004 – 9th Avenue South, Suite # 12 Federal Way, Washington 98003 (253) 927-5233