



SAN MATEO-FOSTER CITY SCHOOL DISTRICT FACILITIES AND CONSTRUCTION ADDENDUM NO.2

Date: February 18, 2026

Project: BOWDITCH MIDDLE SCHOOL – HAZMAT REMEDIATION – PHASE A

Bid No.: 26-01

To Prospective Bidders:

Notice is hereby given to all prospective bidders that plans and specifications on the subject project are modified as hereinafter set forth. This addendum shall be attached to and form a part of the plans and specifications. All bidders must acknowledge receipt of this addendum on the Bid Form. In case of difference with previous addenda or communications, this addendum takes precedence.

It is the responsibility of all bidders to notify all subcontractors from whom they request bids and from whom they accept bids of all changes contained in this addendum.

CHANGES TO BID PACKAGE DOCUMENTS AND CONTRACT REQUIREMENTS

AD02.01 Hazardous Material Survey Report dated February 16, 2026 (attached – 195 pages)

AD02.02 Updated Specification section 02 81 00 HAZMAT Remediation Specifications (attached – 40 pages). Appendix A has been updated to include test results from Survey Report dated February 16, 2026.

AD02.03 The Library windows with asbestos glazing to be removed after June 12, 2026, with the IDF's/MDF/Electrical Rooms abatement.

AD02.04 Pre-bid Questions and Answers:

1. What is the engineer's estimate? 1M
2. Please confirm whether water and power will be supplied by the owner. - Yes
3. Please confirm whether fencing will be provided by the contractor. - Yes
4. Please confirm that all loose furniture/objects will be removed by the owner. - Loose items and small items screwed to the wall will be removed by the owner. Items that have utilities to them will be left in place. Contractor will be responsible for disconnecting to perform their work.
5. Please confirm all desks on the second floor of the library will be removed by the owner. - No



6. Please confirm whether the fire alarm system is to be protected while abatement is being performed. - Yes

7. To avoid potential damage to active systems, would it be possible for the owner to perform the electrical, gas, and water safe-off/LOTO procedures? - Refer to the sets of drawings for valve locations and electrical breaker locations. Gas to the Science classrooms is already valved off in the wall; each science lab station has it's own water valve - it will be the contractor's responsibility to valve off the water; electrical safe-off/LOTO will be the contractor's responsibility.

8. During the site walk, it was mentioned that the intent for the hazardous materials remediation was due to these buildings being demolished—please confirm this is accurate. - Timing of this yet to be determined

9. Can we receive a photo of the ACM vinyl roof cap on the breezeway and snack bar?



**Hazardous Material Survey Report
San Mateo Foster City School District
Bowditch Middle School – Buildings D, E, F, G, H, I, J
1450 Tarpon Street, Foster City CA 94404**



Prepared for:



1170 Chess Drive
Foster City, CA 94404

Prepared By:
Vista Environmental Consulting
2984 Teagarden Street
San Leandro, CA 94577

February 16, 2026

Project No. 2631167001

TABLE OF CONTENTS

EXECUTIVE SUMMARY

	<u>PAGE</u>
1. INTRODUCTION	1
2. METHODOLOGY	2
3. RESULTS	5
4. RECOMMENDATIONS	5
5. LIMITATIONS & EXCLUSIONS	9

APPENDICES

A. BUILDING DATA

Hazardous Materials Summary
Asbestos Sampling Inventory
Sample Location Drawings
Asbestos Analytical Reports
Lead XRF Sequential Reports

EXECUTIVE SUMMARY

Vista Environmental Consulting (Vista) performed a pre-demolition and pre-renovation hazardous material survey at Bowditch Middle School located at 1450 Tarpon Street, Foster City, CA 94404 (Project Site) for the San Mateo – Foster City Unified School District (SMFCUSD). The survey was performed to identify and sample supplemental accessible suspect asbestos-containing materials, to identify representative building components for the presence of lead-containing surface coatings/lead-based paints (LCSC/LBP), and to visually assess items that may could contain PCBs or universal waste, that may be disturbed in the path of construction for this project. Vista performed the hazardous materials survey on March 28, 29, 30 and 31 and April 1 and 5, 2022.

The path of construction for this pre-demolition and pre-renovation survey was based on a site plan provided by SMFCUSD dated 09/16/2021. The scope for this project includes:

Comprehensive Survey (Pre-Demolition) for:

- Building D
- Building E
- Building F
- Building G
- Building H
- Building I
- Building J

The following buildings were surveyed and contain the following hazardous materials in the path of construction:

Building	Asbestos	Lead-Based Paint and/or Materials	Lead Containing Paint	Other Hazardous Materials
D	☑	☑	☑	☑
E	☑	☑	☑	☑
F	☑	☑	☑	☑
G	☑	No	☑	☑
H	☑	☑	☑	☑
I	☑	☑	☑	☑
J	☑	☑	☑	☑
D to J Roof	No	☑	☑	No

Subsurface asbestos utility piping is assumed throughout the Project Site.

The Hazardous Materials Summary, Asbestos Sampling Inventory, Sample Location Drawings, Asbestos Analytical Reports, and Lead XRF Sequential Reports can be found in *Appendix A – Building Data*. They are arranged building by building in alphabetical order.

The documents found in the appendices are not stand-alone documents and should not be separated from this report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

All asbestos (>0.1%) disturbance and/or removal operations must be conducted by a Cal/OSHA registered and State licensed asbestos removal contractor. All disturbance and/or abatement operations should be under the direction of a California Certified Asbestos Consultant.

Should the removal of identified regulated asbestos-containing materials (RACM) involve at least 100 square feet or 100 linear feet per project site, per year, then notification to the Bay Area Air District (BAAD) and Cal/OSHA must be accomplished prior to the initiation of such activities.

All activities involving potential and identified lead-containing surfaces should be conducted in accordance with California Health & Safety Code sections 17920.10 and 10525, 10525.7, Title 8, California Code of Regulations (CCR), Section 1532.1.

In addition, all removal activities involving identified lead-based paints (LBP) must be conducted in accordance with Title 17, CCR, Division 1, Chapter 8, Sections 35001 through 36100, which proscribes the use of California Department of Public Health (CDPH) certified workers, work practices, and other requirements.

Written notification to Cal/OSHA must be accomplished should LBP activities involve equal to or more than 100 square feet or 100 linear feet of removal in accordance with the requirements of 8 CCR 1532.1.

Any welding, cutting or heating of metal surfaces containing surface coatings should be conducted in accordance with 8 CCR 1537 Welding, Cutting, and Heating of Coated Metals, which require surfaces covered with toxic preservatives, and in enclosed areas, be stripped of all toxic coatings for a distance of at least 4 inches, in all directions, from the area of heat application prior to the initiation of such heat application, or 8 CCR 1536 Ventilation Requirements for Welding, Brazing, and Cutting.

Proper waste characterization and disposal of lead should be conducted in accordance with 22 CCR Division 4, Chapter 30, and the California Health and Safety Code, Section 25157.8.

All potential and identified Universal Waste materials (UW) impacted by the work should be removed and recycled or disposed of in accordance with the UW guidelines established by the DTSC, as stated in 22 CCR Sections 66261.9 and 66273.1 thru 66273.90.

All ballasts must be visually inspected prior to disposal to determine if they contain PCB's. Those ballasts marked No PCB's or PCB Free can be considered as such as should be treated as UW - electronic waste. All PCB-containing devices, including, but not limited to ballasts should be removed or have the oils removed and properly handled, collected, stored, transported and recycled or disposed of by an approved recycling or disposal facility in accordance with the requirements of Title 22 CCR 67426.1.

Should materials similar to those identified in this report, or if other forms of suspect hazardous materials are encountered, contractors should be instructed to immediately cease work activities which may initiate an exposure episode, and notify the appropriate management personnel.

Report prepared for the Company by:

A handwritten signature in black ink, appearing to read 'C. Burns', is positioned above the printed name.

Christopher R. Burns
Senior Project Manager
CAC #92-0224
LRCIA #LRC-00006938

1.0 INTRODUCTION

Vista Environmental Consulting, Inc. (Vista) has prepared this pre-demolition hazardous material survey report of 1450 Tarpon Street, Foster City, CA 94404 (Project Site), for the San Mateo – Foster City School District (SMFCSD).

The path of construction for this pre-demolition was based on a site plan provided by SMFCUSD dated 09/16/2021. The scope for this project includes:

Comprehensive Survey (Pre-Demolition) for:

- Building D
- Building E
- Building F
- Building G
- Building H
- Building I
- Building J

The purpose of this survey was to identify hazardous building materials so they could be removed; waste characterized, and properly disposed of prior to being impacted by demolition activities. The data provided in this report can assist all parties involved in this project in making informed decisions with regards to regulatory compliance and the health and safety of their employees. This survey included the following:

- Visible and accessible suspect asbestos-containing materials (ACM) were assessed and sampled to determine asbestos content.
- Representative painted and coated building components were assessed and categorized based upon standard selective demolition practices and sampled for lead content which can be used in preliminary waste stream characterization estimates.
- Visible and accessible materials commonly found in buildings which can potentially have hazardous properties that are regulated were assessed, but not sampled. These materials include, but are not limited to:
 - Universal Waste (UW) materials, such as non-incandescent lamps, batteries, mercury-containing devices, and electronic waste; Batteries include, but are not limited to those found in exit signs, emergency lights, fire alarm systems, and back-up power systems.
 - Polychlorinated biphenyls (PCBs) containing devices such as lamp ballasts, wet-type transformers, and hydraulic systems.

2.0 METHODOLOGY

Vista performed the hazardous materials survey on March 28, 29, 30 and 31 and April 1 and 5, 2022. The survey was conducted by the following Vista employees:

- Pete Kolesar, a State of California Division of Occupational Safety and Health (Cal/OSHA) Certified Asbestos Consultant (CAC) # 15-5543 and a State of California Department of Public Health (CDPH) Lead Related Construction Certified Inspector/Assessor (LRCIA) #LRC-00007819.
- Alana Anderson, a CDPH Lead Related Construction Certified Sampling Technician (LRCST) #LRC-00009273.

A supplemental survey of assumed asbestos materials was performed on February 12, 2026 by the following Vista employees:

- Christopher Burns, a Cal/OSHA CAC # 92-0224
- Javier Rocha, a Cal/OSHA Certified Site Surveillance Technician (CSST) #02-3244.

The survey performed was not intrusive in nature, and did not include access of areas and sampling of materials which would have required demolition or large-scale destructive testing. Vista's intent was to perform a thorough survey and made a good faith effort to access all building materials down to the structural components and/or interstitial spaces.

Quantities and locations are based upon areas that were accessed. Materials similar to those in this report may be present in areas which were not accessed.

Sub-surface areas were not included as part of this survey hence no excavation was conducted to discover buried asbestos utility piping concealed below the surface.

2.1 *Asbestos*

The asbestos survey was performed generally in accordance with the AHERA protocol (40 CFR Part 763, Subpart E). Visual identification was performed by assessing visible and accessible structural, architectural, and mechanical components for the presence of suspect ACM at the Project Site.

This limited ACM survey was conducted in the following manner:

- Suspect ACM was categorized into homogeneous materials. A homogeneous material is defined as being a surfacing material, thermal system insulation, or miscellaneous material which is uniform in color and texture. It may also be additionally subcategorized using the date of installation, when available.
- A sampling scheme was developed based upon the location and quantity of the suspect homogeneous ACM. A rough order of magnitude estimate of each suspect homogenous ACM

was calculated and recorded for future reference. A sampling scheme, including a specific number of samples per suspect homogeneous ACM, was calculated prior to sampling.

- Sampling guidelines established by the United States Environmental Protection Agency (USEPA) were utilized for sampling each suspected homogeneous ACM. Methods described in Appendix K of 8 California Code of Regulation (CCR) 1529 were utilized in the collection of each suspect homogeneous ACM sample.
- Trained California asbestos certified personnel, using appropriate sampling tools and sterile leak-tight Whirl-pak® containers, collected building materials that were suspected to contain ACM.
- Each suspect ACM sample was collected and sealed in its container and appropriately labeled with a unique sample identification number and recorded on an asbestos bulk sampling log. Each log contains a chain-of-custody to assure the proper transition of the samples from Vista to the analytical laboratory.
- Sampling tools were decontaminated, by using a clean wet cloth, between collection of each suspect sample to prevent the possibility of cross contamination of subsequent suspect ACM samples.

Suspect ACM samples were delivered under proper chain-of-custody protocol to SGS Forensic Laboratories (Forensic) in Hayward, California. Forensic is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP) and the California Environmental Laboratory Accreditation Program (Cal-ELAP). The samples were submitted for analysis by Polarized Light Microscopy (PLM) utilizing dispersion staining techniques in accordance with the EPA's "Method for the Determination of Asbestos in Bulk Building Materials" U.S. EPA/600/R-93/116, Visual Area Estimate, dated July 1993 and adopted by the NVLAP as Test Method Code 18/A01.

Asbestos containing wallboard/joint compound samples were further composite analyzed by 400-point count 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

2.2 *Lead*

Vista's lead construction screening survey used an X-Ray Fluorescence (XRF) direct read spectrum analyzer device to take readings of representative painted and coated surfaces for evaluation of lead levels for worker health and safety and preliminary waste characterization prior to construction activities. The device used was a NITON Corporation XRF Spectrum Analyzer, Model XLp- 300 A. This device is a solid-state detector optimized for lead L-shell and K-shell X-ray detection and uses a 40 mCi 109Cd (1,480 Mbq) isotope for an excitation source.

This survey was a limited screening of paint for the purpose of characterizing the lead content in paint and coatings likely to be disturbed during work activities. For this purpose, XRF analysis was used to screen

for lead levels and provides results that are generally representative of typical conditions but are not inclusive of all painted/coated surfaces present at the Project Site. This survey was not a surface-by-surface inspection as outlined in the U.S. Department of Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing pursuant to Title X of the Housing and Community Development Act of 1992. These analytical data can be helpful in evaluation of lead-related environmental risks in general, but cannot be used to calculate worker exposures and is not a substitute for employee exposure monitoring or waste stream sampling.

Lead-Based Paint (LBP) is defined by CDPH as any paint containing lead levels exceeding 0.5 wt % (or 5000 parts per million) via paint chip sampling or 1.0 milligrams per centimeter squared (mg/cm²) or greater via X-Ray Fluorescence (XRF) direct read instrument sampling. A Lead-Based Material (LBM) is a material, such as solid lead roof jacks and ceramic tiles, that meet the lead level criteria for LBP, but is not paint or other surface coating. Cal/OSHA rules apply to “any detectable concentration of lead” without a specified detection level.

2.3 *Devices with Potential Hazardous Materials*

Devices with potential hazardous materials were visually identified during the survey walk through and their quantities were estimated and recorded. No attempt was made to disassemble devices or sample suspect materials within the devices. For example, fluorescent light fixtures must be presumed to contain Universal Waste lamps and ballasts which contain PCB oil or are electronic waste, pending removal and disassembly of each unit to determine explicit product specific information that proves otherwise.

3.0 RESULTS

The following buildings were sampled and contain the following hazardous materials in the path of construction for this project:

Building	Asbestos	Lead-Based Paint and/or Materials	Lead Containing Paint	Other Hazardous Materials
D	☒	☒	☒	☒
E	☒	☒	☒	☒
F	☒	☒	☒	☒
G	☒	No	☒	☒
H	☒	☒	☒	☒
I	☒	☒	☒	☒
J	☒	☒	☒	☒
D to J Roof	No	☒	☒	No

Subsurface asbestos utility piping is assumed throughout the Project Site.

The Hazardous Materials Summary, Asbestos Sampling Inventory, Sample Location Drawings, Asbestos Analytical Reports, and Lead XRF Sequential Reports can be found in *Appendix A – Building Data*. They are arranged building by building in alphabetical order.

4.0 RECOMMENDATIONS

4.1 *Asbestos*

The results of the survey indicate that asbestos-containing materials **are present** at the Project Site.

Work performed during any activities that disturb the asbestos-containing materials identified in this report must be done in compliance with the most recent edition of all applicable federal, state, and local regulations, standards, and codes governing abatement, transport, and disposal of asbestos-containing materials. These include, but are not limited to, the following:

- CCR, Title 8, Chapter 3.2, Subchapter 2, Article 2.5 - Registration Asbestos-Related Work Sections 341.6 through 341.14
- CCR, Title 8, Section 1529 - Asbestos in the Construction Industry
- BAAD, Regulation 11, Hazardous Pollutants, Rule 2, Asbestos Demolition, Renovation and Manufacturing
- 40 CFR Part 763 - Subpart E, Asbestos Containing Materials in Schools (ASHERA)
- California Code of Regulations, Title 17, Section 93015
- CCR, Title 17, Section 93015 Asbestos Airborne Toxic Control Measure (ATCM) for Construction, Grading, Quarrying and Surface Mining Operations

Materials encountered in the buildings that are not part of this report must be properly sampled for the content of asbestos or assumed to be asbestos containing prior to any disturbance.

Prior to activities which will disturb identified or assumed asbestos, a Cal/OSHA registered and California licensed asbestos contractor must be utilized for abatement of asbestos that will be impacted. Vista recommends that all abatement operations be conducted under the direction of a California Certified Asbestos Consultant.

4.2 *Lead*

The results of the survey indicate that lead-based paint and materials and lead-containing paints **are present** at the Project Site.

At present there is no state or federal regulation requiring mandatory lead removal or abatement prior to disturbance of building materials with identified lead paint or coatings. However, there are applicable

Cal/OSHA worker protection and training requirements, Cal/EPA waste disposal requirements, CDPH requirements for public and residential buildings, and SB 460 lead hazard regulations that apply to lead-related construction activities, abatement activities and their associated wastes. The following is a brief discussion and summary of applicable regulatory requirements:

♦ **Cal/OSHA:** Title 8, California Code of Regulation (CCR), Section 1532.1 (8 CCR 1532.1) governs occupational exposure to lead. This regulation requires that prior to initiation of certain activities, referred to as “trigger tasks”, workers must be trained, medically evaluated, and properly fitted with respiratory protection, and protective clothing until statistically reliable personal eight-hour time weighted average (TWA) results indicate lead exposure levels below the Personal Exposure Limit (PEL) for each unique task which disturbs lead-based and lead-containing coatings. This process is known as a Negative Exposure Assessment or NEA.

If the result of the exposure assessment is above the Action Level (AL) additional monitoring is required and if the result is above the PEL additional exposure monitoring, worker protection (including respirator protection and PPE), training and medical requirements apply. However, even where the NEA criteria is met, certain hazard communication training and work practice controls still apply where lead is disturbed. “Trigger tasks” are tasks that are assumed to exceed the PEL pending an exposure assessment and they encompass the majority of construction activities that disturb surface coatings. Examples of “trigger” tasks range from manual paint scraping as a lower expected exposure up to hot work and abrasive blasting as the highest expected exposures, and include any non-listed task that the employer determines may potentially expose employees to lead levels above the AL.

“OSHA does not consider any method that relies solely on the analysis of bulk materials or surface content of lead (or other toxic material) to be acceptable for safely predicting employee exposure to airborne contaminants. Without air monitoring results or without the benefit of historical or objective data (including air sampling which clearly demonstrates that the employee can not be exposed above the action level during any process, operation, or activity) the analysis of bulk or surface samples can not be used to determine employee exposure.” - OSHA Standard Interpretation May 8, 2000.

OSHA states that these rules apply to “any detectable concentration of lead” without a specified detection level. Due to the Consumer Product Safety Commission currently allowing paint to contain up to 90 parts per million (ppm) or 0.009 wt% of lead, the variation of lead content due to aging and weathering, and the variation of detection limits associated with analysis of bulk materials, such as paint chips and surface content analysis via XRF, it is recommended that all painted or coated surfaces be treated as potentially containing lead. Positive analytical results by either method can be used to indicate that detectable lead is present but negative results cannot be interpreted as conclusively demonstrating the absence of lead.

Analytical data from analysis of bulk materials or surface content of lead can be helpful in evaluation of lead-related environmental risks in general but cannot be used to calculate worker exposures and are not a substitute for employee exposure monitoring. As a result of the above, any employee that works around potential lead-based or lead-containing coatings must have HAZCOM training and personal exposure air monitoring is additionally required for employees that disturb such coatings. Significant additional certification, notification, and work practices are required for materials found to be lead-based.

Any welding, cutting or heating of metal surfaces containing surface coatings should be conducted in accordance with 29 CFR 1926.354 and 8 CCR 1537. These regulations require surfaces covered with toxic preservatives, and in enclosed areas, be stripped of all toxic coatings for a distance of at least 4 inches, in all directions, from the area of heat application prior to the initiation of such heat application.

♦ **Cal/EPA** through the Division of Toxic Substance Control (DTSC) regulates disposal of lead hazardous waste (22 CCR Division 4.5, Minimum Standards for Management of Hazardous and Extremely Hazardous Wastes). DTSC has issued guidance indicating that architectural debris with intact lead paint is normally expected to be handled as general construction waste. However, waste stream segregation and analysis is still required for all lead painted or coated debris regardless if the paint or coating is intact on a building component or not. The resulting wastes may be hazardous under California and federal RCRA standards for lead and therefore require proper handling, packaging, labeling, and transportation under a proper manifest to a permitted hazardous waste storage, treatment and disposal facility.

♦ **CDPH**: The Department of Public Health (CDPH) has specific requirements (Title 17 Sections 35001 thru 36100 et. al.) for hazard assessment and work in public or residential structures in regards to lead-based paint. These regulations require special certifications, work practices, and notification for such activities.

♦ **Senate Bill 460 (SB 460)**: An act to amend Section 1941.1 of the Civil Code, and to amend Sections 17961, 17980, and 124130 of, and to add Sections 17920.10, 105251, 105252, 105253, 105254, 105255, 105256, and 105257 to, the Health and Safety Code, relating to lead abatement. This bill allows for fines and criminal penalties to be levied on any person who is found to have performed lead abatement without containment or created a measurable “lead hazard” based upon current CDPH standards. A “lead hazard” means deteriorated lead-based paint, lead contaminated dust, lead contaminated soil, disturbing lead-based paint or presumed lead-based paint without containment, or any other nuisance which may result in persistent and quantifiable lead exposure.

Vista recommends that all parties that come into contact with paint that has detectable lead content follow all applicable federal, state and local regulations relating to employee health and safety and proper disposal of generated wastes.

4.3 *Devices with Potential Hazardous Materials*

The results of the survey indicate that devices with other hazardous materials are present at the Project Site.

All potential and identified Universal Waste materials (UW) impacted by the work should be removed and recycled or disposed of in accordance with the UW guidelines established by the DTSC, as stated in 22 CCR Sections 66261.9 and 66273.1 thru 66273.90.

Vista's limited visual survey indicated that light fixtures with ballasts that may contain PCB oil are present. However, due to the limited nature of the random spot checks, Vista recommends that all ballasts be visually inspected prior to disposal to determine if they contain PCBs. Those ballasts marked No PCB's or PCB Free can be considered as such as should be treated as UW - electronic waste.

All PCB-containing devices, including, but not limited to ballasts should be removed or have the oils removed and properly handled, collected, stored, transported and recycled or disposed of by an approved recycling or disposal facility in accordance with the requirements of Title 22 CCR 67426.1.

All personnel who perform hazardous materials work must be trained and qualified to do so. They must also follow the most current OSHA regulations including 29 CFR 1910.120 and 8 CCR 5192, Hazardous Waste Operations and Emergency Response, as well as other applicable federal, state and local laws and regulations.

5.0 LIMITATIONS & EXCLUSIONS

Quantities and locations are based upon areas that were accessed. Materials similar those in this report may be present in areas which were not accessed. Because of this, Vista recommends including line-item pricing, allowances, and/or additive/deductive wording to bid sheets for unforeseen conditions.

The documents found in the appendices are not stand-alone documents and should not be separated from this report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

The survey performed was limited to representative rooms/areas, was not intrusive in nature, and did not include access of areas and sampling of materials which would have required demolition or large-scale

destructive testing. Vista made a good faith effort based on accepted industry standards to access all areas in order to assess their potential for having hazardous materials, however additional materials such as vinyl floor tile or mastics may be under carpeting or other floor finishes and fixtures, and piping and elbows may be inside wall or ceiling voids. Vista made every effort to access these areas, however because non-destructive techniques had to be employed to keep the facilities operational, not all interstitial spaces could be accessed.

Respectfully Submitted,
Vista Environmental Consulting



Christopher R. Burns
Senior Project Manager
CAC #92-0224
LRCIA #LRC-00006938

APPENDIX A - BUILDING DATA

BOWDITCH MIDDLE SCHOOL BUILDING D



The information contained in these appendices are not stand-alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAD & Cal-OSHA classifications are based on the materials being

BOWDITCH MIDDLE SCHOOL BUILDING D HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/Off-White, Smooth	Interior - Walls and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	24,000 SF
C	Wallboard/Joint Compound	White/Off-White	Interior - w/Vinyl Wall Covering	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
P	Wallboard/Joint Compound	Unfinished	Interior - Plenum	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
AA	Thermal System Insulation	White, Hard Pack, Elbow	Interior - Plenum	Class I	Friable (RACM when Removed)	2 SF
SS	Vinyl Roof Cap	White (Assume)	Exterior – HVAC Pit	Class II	Category I – Non-Friable	500 SF
VV	Insulation	White, Fire Door Ceiling Hatch	Interior – Break Room	Unclassified	Friable (RACM when Removed)	4 SF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
Outside	Beam Bracket	Metal	Tan	Intact	0.27	mg/cm ²
Outside	Pipe	Metal	Tan	Intact	0.05	mg/cm ²
Roof	Flashing	Metal	Brown	Intact	0	mg/cm ²
Preparation	Shelf	Metal	Red	Intact	0.5	mg/cm ²
Preparation	Shelf	Metal	Yellow	Intact	0.5	mg/cm ²

BOWDITCH MIDDLE SCHOOL BUILDING D HAZARDOUS MATERIALS SUMMARY

Room	Component	Substrate	Color	Condition	Pb	Units
Preparation	Shelf	Metal	Blue	Intact	0.03	mg/cm ²
Preparation	Door	Wood	Blue, Dark	Intact	0.5	mg/cm ²
Preparation	Door	Metal	White	Intact	0.07	mg/cm ²
Preparation	Cabinet	Vinyl	Brown	Intact	0.26	mg/cm ²
Corridor	Light Casing	Metal	Gray	Intact	0.05	mg/cm ²
Corridor	Beam	Wood	White	Intact	0.01	mg/cm ²
Corridor	Wall	Drywall	Beige	Intact	0.05	mg/cm ²
RM 2	Door	Drywall	Blue, Dark	Intact	0.14	mg/cm ²
RM 2	Door Frame	Wood	White	Intact	0.02	mg/cm ²
RM 2	Door	Wood	Blue, Dark	Intact	0.26	mg/cm ²
RM 2	Chalkboard	Other	Black	Intact	1.2	mg/cm²
RM 2	Beam Bracket	Metal	Beige	Intact	2.5	mg/cm²

Bold = Lead Based

Devices with Potential Hazardous Materials

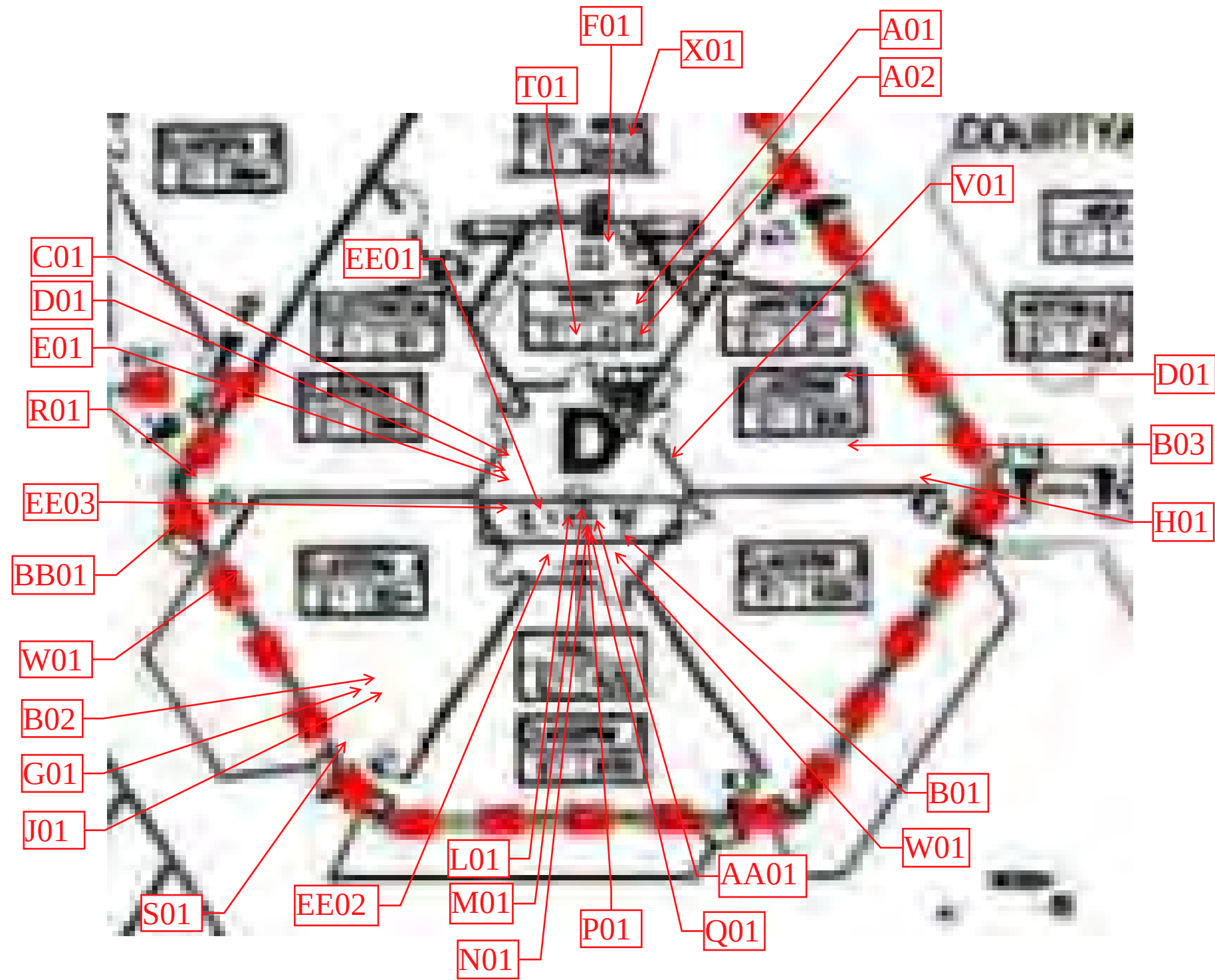
MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	172
Metal Halide/Sodium	Universal Waste	7
Batteries: Emergency Lights & Exit Signs	Universal Waste	6
Light Fixture Ballasts	Polychlorinated Biphenyls or E-waste	48

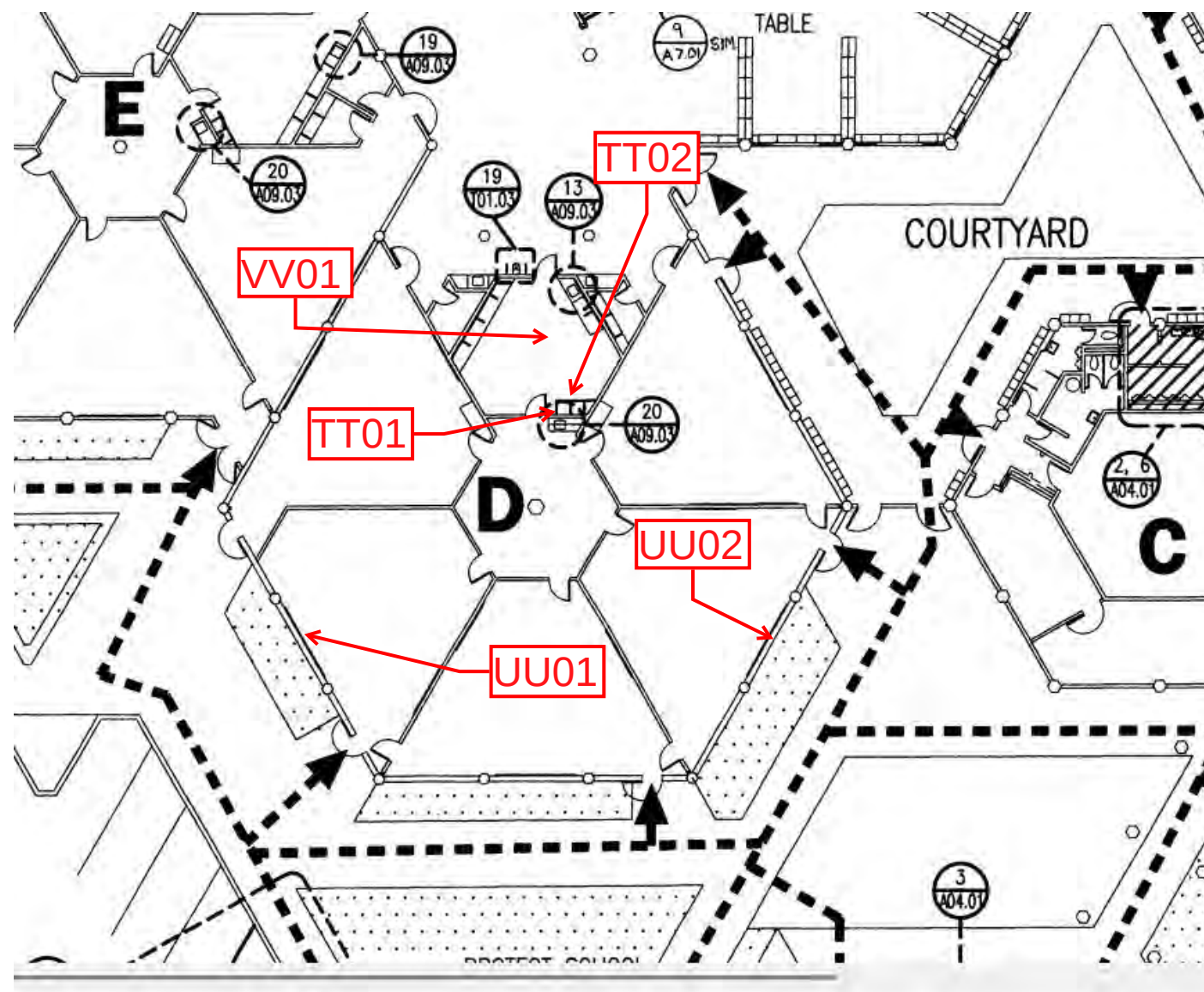
**BOWDITCH MIDDLE SCHOOL
BUILDING D
ASBESTOS SAMPLING INVENTORY**

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Wallboard/Joint Compound	White/Off-White, Smooth	2
B	Spray Applied Acoustic Ceiling	Popcorn	3
C	Drywall	White/Off-White	1
D	Basecove/Mastic	4" Grey/Beige	1
E	Sink Undercoating Mastic	Grey	1
F	Ceiling Tile	12", Tan, Fissured	1
G	Ceiling Panel	2' x 4', Fissured	1
H	Mastic	Tan, Carpet	1
I	Vinyl Floor Tile/Mastic	12" White/Tan	1
J	Duct Insulation	White, Fiberglass, Foil Backing	1
K	Vinyl Floor Tile/Mastic	12" Grey/Tan	1
L	Mastic	Tan, Duct	1
M	Mastic	Grey, Duct	1
N	Thermal System Insulation/Mastic	Fiberglass, Pipe, Foil Jacket/Black	1
O	Not Used	Not Used	NA
P	Wallboard/Joint Compound	Unfinished	1
Q	Roofing Debris	Black, Grey	1
R	Caulking	White, Door Frame	1
S	Mastic	Grey, Roof Flashing Seam	1
T	Mastic	Grey, Penetration	1
U	Mastic	Grey, Parapet Cap Seam	1
V	Mastic	Grey, Ladder Mount	1

**BOWDITCH MIDDLE SCHOOL
BUILDING D
ASBESTOS SAMPLING INVENTORY**

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
W	Mastic	Black, Gutter	1
X	Roof Shingle/Roofing Paper	Brown/Black	1
Y	Not Used	Not Used	NA
Z	Not Used	Not Used	NA
AA	Thermal System Insulation	White, Hard Pack, Elbow	2
BB	Stucco	Ceiling, Sand Finish	1
CC	Not Used	Not Used	NA
EE	Wallboard/Joint Compound	Texture Finish	3
SS	Not Used	Not Used	NA
TT	Mastic	Dark Brown, Acoustic Ceiling Tile (F)	2
UU	Vinyl Wall/Mastic	White/Beige	2
VV	Insulation	White, Fire Door Ceiling Hatch	1







Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)

NVLAP Lab Code: 101459-0

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B331524
Date Received: 04/08/22
Date Analyzed: 04/12/22
Date Printed: 04/13/22
First Reported: 04/13/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS Bldg. D

SGSFL Job ID: L1161
Total Samples Submitted: 30
Total Samples Analyzed: 30

Date(s) Collected: 04/05/2022

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
D-A-01	12551773						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						
D-A-02	12551774						
Layer: White Drywall			ND				
Layer: Off-White Joint Compound		Chrysotile	2 %				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						
D-B-01	12551775						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
D-B-02	12551776						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
D-B-03	12551777						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
D-C-01	12551778						
Layer: White Drywall			ND				
Layer: Off-White Joint Compound		Chrysotile	2 %				
Layer: White Woven Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						

Client Name: Vista Environmental Consultants**Report Number:** B331524**Date Printed:** 04/13/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
D-D-01	12551779						
Layer: Grey Non-Fibrous Material			ND				
Layer: Beige Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
D-E-01	12551780						
Layer: Grey Coating			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
D-F-01	12551781						
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (95 %)							
D-G-01	12551782						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (35 %) Fibrous Glass (45 %)							
D-H-01	12551783						
Layer: Tan Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
D-J-01	12551784						
Layer: White Fibrous Material			ND				
Layer: Silver Foil			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace) Fibrous Glass (90 %)							
D-L-01	12551785						
Layer: Off-White Non-Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
D-M-01	12551786						
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
D-N-01	12551787						
Layer: Orange Fibrous Material			ND				
Layer: Black Tar			ND				
Layer: Tan Fibrous Material			ND				
Layer: Silver Foil			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (5 %) Fibrous Glass (85 %)							

Client Name: Vista Environmental Consultants**Report Number:** B331524**Date Printed:** 04/13/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
D-P-01	12551788						
Layer: White Drywall			ND				
Layer: Off-White Joint Compound		Chrysotile	2 %				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						
D-Q-01	12551789						
Layer: Black Roofing Debris			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (10 %)	Fibrous Glass (5 %)						
D-R-01	12551790						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
D-S-01	12551791						
Layer: Grey Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
D-T-01	12551792						
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
D-U-01	12551793						
Layer: Grey Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
D-V-01	12551794						
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
D-W-01	12551795						
Layer: Black Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
D-X-01	12551796						
Layer: Tan Roof Shingle			ND				
Layer: Tan Roof Shingle			ND				
Layer: Black Felt			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (35 %)	Fibrous Glass (15 %)						

Client Name: Vista Environmental Consultants

Report Number: B331524

Date Printed: 04/13/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
D-AA-01	12551797						
Layer: Grey Semi-Fibrous Material		Chrysotile	2 %				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)	Fibrous Glass (60 %)						
D-AA-02	12551798						
Layer: Grey Semi-Fibrous Material		Chrysotile	2 %				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)	Fibrous Glass (60 %)						
D-BB-01	12551799						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
D-EE-01	12551800						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						
D-EE-02	12551801						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						
D-EE-03	12551802						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



Bulk Asbestos Point Count Analysis

(NESHAP Final Rule, 40 CFR, Part 61)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: N014616
Date Received: 04/19/22
Date Analyzed: 04/19/22
Date Printed: 04/19/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS Bldg. D

SGSFL Job ID: L1161

PLM Report Number: B331524

Total Samples Submitted: 3
Total Samples Analyzed: 3

Sample Preparation and Analysis:

The NESHAP Final Rule does not define the preparation method for multi-layered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

Sample ID	Lab Number	Layer Description
D-A-02	12551774	Composite of ALL Layers White Drywall Off-White Joint Compound Paint

Point Count Results:

Number of asbestos points counted: 0
Number of non-empty points: 400
Layer percentage of entire sample: 100
Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.

D-C-01	12551778	Composite of ALL Layers White Drywall Off-White Joint Compound White Woven Material
---------------	----------	---

Point Count Results:

Number of asbestos points counted: 0
Number of non-empty points: 400
Layer percentage of entire sample: 100
Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.



Bulk Asbestos Point Count Analysis

(NESHAP Final Rule, 40 CFR, Part 61)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: N014616
Date Received: 04/19/22
Date Analyzed: 04/19/22
Date Printed: 04/19/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS Bldg. D

SGSFL Job ID: L1161

PLM Report Number: B331524

Total Samples Submitted: 3
Total Samples Analyzed: 3

Sample Preparation and Analysis:

The NESHAP Final Rule does not define the preparation method for multi-layered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

Sample ID	Lab Number	Layer Description
D-P-01	12551788	Composite of ALL Layers White Drywall Off-White Joint Compound

Point Count Results:

Number of asbestos points counted:	0
Number of non-empty points:	400
Layer percentage of entire sample:	100
Percent asbestos in layer:	< 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.

Note: Point count results are reported to the nearest percent per EPA method.

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ) = 1%. Trace denotes the presence of asbestos below the LOQ. ND = None Detected.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 04-05-2022

LOCATION: Bowditch MS Bldg. D

PROJECT NUMBER: 221167001

SAMPLED BY: KOGESAR-ANDERSON

CAC OR SST No: 15-5543

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
D	A	01	WBTC	WALL SMOOTH	WORK RM	
	↓	02	↓	CEILING SMOOTH	RM D1	
	B	01	SAAC	POP CORN	CENTER RM	
	↓	02	↓	↓	RM D4	
	↓	03	↓	↓	RM D1	
	C	01	DRYWALL	W/ VINYL WALL COVERING	CENTER RM	
	D	01	B/C	4" GREY W/ BEIGE MASTIC	CENTER RM	
	E	01	SUCM	GREY	CENTER RM	
	F	01	CIT	12" FIGURED	WORK RM	
	G	01	C/P	2' X 4' FIGURED	RM D4	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. P. Kogesar
TRANSFER SIGNATURE

KOGESAR 04-05-2022
PRINTED NAME DATE/TIME

2. cym
TRANSFER SIGNATURE

D/O APR 08 2022 Sam
PRINTED NAME DATE/TIME

3. _____
TRANSFER SIGNATURE

PRINTED NAME DATE/TIME

PAGE 1 OF 3



2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 04-05-2022

LOCATION: Bowditch MS Bldg. D

PROJECT NUMBER: 221167001

SAMPLED BY: KOLESAR

CAC OR SST No: 15-5543

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
D	H	01	CARPET MASTIC TAN		RM D1	
	J	01	DUCT INSULATION	FOILBACKING FIBERGLASS	RM D4	
	L	01	DUCT MASTIC	TAN/OFFWHITE	PLENUM	
	M	01	DUCT MASTIC	GREY	PLENUM	
	N	01	TSI PIPE	FIBERGLASS W/FOILJACKET AND BLACK MASTIC	PLENUM	
	P	01	WRBTC	UNFINISH	PLENUM	
	Q	01	ROOFING DEBRIS	BLACK-GREY	PLENUM	
	R	01	DOOR FRAME CRACKING	WHITE	EXTERIOR AT D5	
	S	01	ROOF FLASHING SEAM MASTIC	GREY	EXTERIOR AT D4	
	T	01	PENETRATION MASTIC	GREY	ROOF	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

- R/h
TRANSFER SIGNATURE
- ajm
TRANSFER SIGNATURE
- TRANSFER SIGNATURE

KOLESAR 04-05-2022
PRINTED NAME DATE/TIME
D/O 8am
PRINTED NAME DATE/TIME
BY: APR 08 2022
PRINTED NAME DATE/TIME

PAGE 2 OF 3



2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 04-05-2022

LOCATION: Bowditch MS Bldg. D

PROJECT NUMBER: 221167001

SAMPLED BY: HOLESNE-ANDERSON

CAC OR SST No: 15-5543

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
D	U	01	PARAPET CAP SEAM MASTIC	GREY	ROOF	
	V	01	LADDER MOUNT MASTIC	GREY	ROOF	
	W	01	GUTTER MASTIC	BLACK	ROOF	
	X	01	ROOF SHINGLE	BROWN w/BLK PAPER	ROOF	
	AA	01	TSI ELBOW	WHITE HARD PACK	PLENUM	
	↓	02	↓	↓	↓	
	BB	01	STUCCO	SAND FINISH	EXTERIOR	
	EE	01	WBTC	w/TEXTURE FINISH	CENTER RM	
	↓	02	↓	↓	RM D4	
↓	↓	03	↓	↓	RM D5	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Park/f
TRANSFER SIGNATURE
2. Cym
TRANSFER SIGNATURE
3. _____
TRANSFER SIGNATURE

HOLESNE 04-05-2022
PRINTED NAME DATE/TIME

D/O APR 08 2022 Sam
PRINTED NAME DATE/TIME

PRINTED NAME DATE/TIME

PAGE 3 OF 3

Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)
NVLAP Lab Code: 101459-0

Vista Environmental Consultants
Chris Burns
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B380927
Date Received: 02/12/26
Date Analyzed: 02/16/26
Date Printed: 02/16/26
First Reported: 02/16/26

Job ID/Site: 261167001; SMFCUSD, BOWDITCH MS, BUILDING #D

SGSFL Job ID: L1161
Total Samples Submitted: 5
Total Samples Analyzed: 5

Date(s) Collected: 02/12/2026

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
D-TT01	12847214						
Layer: Brown Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
D-TT02	12847215						
Layer: Brown Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
D-UU01	12847216						
Layer: Off-White Woven Material			ND				
Layer: Beige Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Synthetic (20 %)							
D-UU02	12847217						
Layer: Off-White Woven Material			ND				
Layer: Beige Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Synthetic (20 %)							
D-VV01	12847218						
Layer: White Non-Fibrous Material		Chrysotile	2 %	Amosite	2 %		
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							



Maria Casper, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Inhomogeneous samples are separated into homogenous subsamples and analyzed individually. Analytical results and reports are generated by SGS at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGS to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGS. The client is solely responsible for the use and interpretation of test results and reports requested from SGS. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. SGS is not able to assess the degree of hazard resulting from materials analyzed. SGS reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



ASBESTOS BULK SAMPLE LOG

OFFICE	510.346.8860
FAX	888.653.8889

DATE: 2/12/26

PROJECT NUMBER: 261167001

CAC OR SST No: 02-3244

(BUILDING # **D**)

[illegible]

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com ; nocaladmin@vista-env.com
Questions call: Office 510.346.8860 Cell 925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

LUIS J. ROCHA
PRINTED NAME

02/12/26-1100
DATE/TIME

Holly Chen
PRINTED NAME

2/12/2 @ 1130 P/O

PRINTED NAME _____

DATE/TIME

PAGE 1 OF 1

**Bowditch Middle School
Building D
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
2			SHUTTER_CAL					1.09	cps
3			CALIBRATE				Positive	1.2	mg/cm ²
4			CALIBRATE				Positive	1.2	mg/cm ²
5			CALIBRATE				Positive	1.2	mg/cm ²
175	Bldg. D	Preperation	SHELF	METAL	RED	INTACT	Negative	0.5	mg/cm ²
176	Bldg. D	Preperation	SHELF	METAL	YELLOW	INTACT	Negative	0.5	mg/cm ²
177	Bldg. D	Preperation	SHELF	METAL	BLUE	INTACT	Negative	0.03	mg/cm ²
178	Bldg. D	Preperation	DOOR	WOOD	BLUE, DARK	INTACT	Negative	0.5	mg/cm ²
179	Bldg. D	Preperation	DOOR	METAL	WHITE	INTACT	Negative	0.07	mg/cm ²
180	Bldg. D	Preperation	CABINET	VINYL	BROWN	INTACT	Negative	0.26	mg/cm ²
181	Bldg. D	Corridor	COUNTER	VINYL	BLUE	INTACT	Negative	0	mg/cm ²
182	Bldg. D	Corridor	WALL	VINYL	BEIGE	INTACT	Negative	0	mg/cm ²
183	Bldg. D	Corridor	CABINET	METAL	GRAY	INTACT	Negative	0	mg/cm ²
184	Bldg. D	Corridor	CEILING	PLASTER	WHITE	INTACT	Negative	0	mg/cm ²
185	Bldg. D	Corridor	Light Casing	METAL	GRAY	INTACT	Negative	0.05	mg/cm ²
186	Bldg. D	Corridor	Light Casing	WOOD	WHITE	INTACT	Negative	0	mg/cm ²
187	Bldg. D	Corridor	BEAM	WOOD	WHITE	INTACT	Negative	0.01	mg/cm ²
188	Bldg. D	Corridor	CABINET	VINYL	BLUE	INTACT	Negative	0	mg/cm ²
189	Bldg. D	Corridor	CABINET	METAL	BLUE, DARK	INTACT	Negative	0	mg/cm ²
190	Bldg. D	Corridor	COLUMN	CONCRETE	BEIGE	INTACT	Negative	0	mg/cm ²
191	Bldg. D	Corridor	WALL	DRYWALL	BEIGE	INTACT	Negative	0.05	mg/cm ²
192	Bldg. D	RM 2	DOOR	DRYWALL	BLUE, DARK	INTACT	Negative	0.14	mg/cm ²
193	Bldg. D	RM 2	DOOR FRAME	WOOD	WHITE	INTACT	Negative	0.02	mg/cm ²
194	Bldg. D	RM 2	DOOR	WOOD	BLUE, DARK	INTACT	Negative	0.26	mg/cm ²
195	Bldg. D	RM 2	Whiteboard	Other	WHITE	INTACT	Negative	0	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building D
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
196	Bldg. D	RM 2	COLUMN	CONCRETE	BEIGE	INTACT	Negative	0	mg/cm ²
197	Bldg. D	RM 2	DOOR	METAL	BLUE, LIGHT	INTACT	Negative	0	mg/cm ²
198	Bldg. D	RM 2	CHALKBOARD	Other	BLACK	INTACT	Positive	1.2	mg/cm ²
199	Bldg. D	RM 2	BEAM BRACKET	METAL	BEIGE	INTACT	Positive	2.5	mg/cm ²
200	Bldg. D	RM 3	Whitwboard	other	WHITE	INTACT	Negative	0	mg/cm ²
202			CALIBRATE				Positive	1.2	mg/cm ²
203			CALIBRATE				Positive	1.2	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building D
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
1			SHUTTER_CAL					1.28	cps
2			CALIBRATE				Positive	1.1	mg/cm ²
3			CALIBRATE				Positive	1.1	mg/cm ²
4			CALIBRATE				Positive	1.2	mg/cm ²
20	D	OUTSIDE	FASCIA	WOOD	BLUE	INTACT	Negative	0	mg/cm ²
21	D	OUTSIDE	FLASHING	METAL	BLUE	INTACT	Negative	0	mg/cm ²
22	D	OUTSIDE	FLASHING	METAL	BLUE	INTACT	Negative	0	mg/cm ²
23	D	OUTSIDE	FLASHING	METAL	BLUE	INTACT	Negative	0	mg/cm ²
24	D	OUTSIDE	FASCIA	WOOD	BLUE	INTACT	Negative	0	mg/cm ²
25	D	OUTSIDE	EAVE	WOOD	TAN	INTACT	Negative	0	mg/cm ²
26	D	OUTSIDE	COLUMN	CONCRETE	TAN	INTACT	Negative	0	mg/cm ²
27	D	OUTSIDE	BEAM BRACKET	METAL	TAN	INTACT	Negative	0.27	mg/cm ²
28	D	OUTSIDE	WALL	WOOD	TAN	INTACT	Negative	0	mg/cm ²
29	D	OUTSIDE	FLOOR STRIPE	CONCRETE	RED	INTACT	Negative	0	mg/cm ²
30	D	OUTSIDE	PIPE	METAL	TAN	INTACT	Negative	0.05	mg/cm ²
41	D	ROOF	FLASHING	METAL	BROWN	INTACT	Negative	0	mg/cm ²
42	D	ROOF	FLASHING	METAL	BLUE	INTACT	Negative	0	mg/cm ²
43	D	ROOF	HVAC	METAL	TAN	INTACT	Negative	0	mg/cm ²
44	D	ROOF	VENT	METAL	TAN	INTACT	Negative	0	mg/cm ²
45	D	ROOF	FLOOR	RUBBER	WHITE	INTACT	Negative	0	mg/cm ²
88			CALIBRATE				Positive	1	mg/cm ²
89			CALIBRATE				Positive	1	mg/cm ²
90			CALIBRATE				Positive	1.1	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

BOWDITCH MIDDLE SCHOOL BUILDING E



The information contained in these appendices are not stand-alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAD & Cal-OSHA classifications are based on the materials being

BOWDITCH MIDDLE SCHOOL BUILDING E HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/Off-White, Smooth	Interior - Wall and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	27,500 SF
C	Wallboard/Joint Compound	White/Off-White	Interior - w/Vinyl Wall Covering	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
P	Wallboard/Joint Compound	White/Off-White, Unfinished	Interior-Plenum	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
Q	Roofing Debris	Black, Grey	Exterior - Plenum	Class II	Category I - Non-Friable	200 SF
AA	Thermal System Insulation	White, Hard Pack, Elbow	Interior - Plenum	Class I	Friable (RACM when Removed)	8 SF
VV	Insulation	White, Fire Door Ceiling Hatch	Interior – Break Room	Unclassified	Friable (RACM when Removed)	4 SF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
Outside	Beam Bracket	Metal	Tan	Intact	0.27	mg/cm ²
Outside	Pipe	Metal	Tan	Intact	0.05	mg/cm ²
Roof	Flashing	Metal	Brown	Intact	0	mg/cm ²
Outside	Beam Bracket	Metal	Tan	Intact	3.2	mg/cm²
Roof	Hatch	Metal	Tan	Intact	0.01	mg/cm ²

BOWDITCH MIDDLE SCHOOL BUILDING E HAZARDOUS MATERIALS SUMMARY

Room	Component	Substrate	Color	Condition	Pb	Units
Preparation	Whiteboard	Other	White	Intact	4.6	mg/cm²
Preparation	Beam Bracket	Metal	White	Intact	0.19	mg/cm ²
Preparation	Beam	Wood	White	Intact	0.05	mg/cm ²
Preparation	Door Frame	Metal	White	Intact	0.05	mg/cm ²
Preparation	Door	Wood	Blue, Dark	Intact	0.7	mg/cm ²
RM 10	Door Frame	Wood	Blue, Dark	Intact	0.01	mg/cm ²
RM 10	Door	Wood	Blue, Dark	Intact	0.07	mg/cm ²
RM 10	Door Frame	Wood	White	Intact	0.09	mg/cm ²
Corridor	Cabinet	Metal	Blue, Dark	Intact	0.8	mg/cm ²
Corridor	Beam	Wood	White	Intact	0.01	mg/cm ²
RM 7	Beam Bracket	Metal	Beige	Intact	7.4	mg/cm²
RM 7	Door Frame	Wood	White	Intact	0.14	mg/cm ²
RM 7	Cabinet	Metal	Blue, Dark	Intact	1.5	mg/cm²
STORAGE	Pipe	Metal	White	Intact	0.1	mg/cm ²
Custodian	Sink	Porcelain	White	Intact	3.4	mg/cm²
Custodian	Hvac	Metal	Beige	Intact	0.04	mg/cm ²
Custodian	Pipe	Metal	Beige	Intact	0.07	mg/cm ²
RM 10 Storage	Pipe	Metal	Beige	Intact	0.02	mg/cm ²
RM 10 Storage	Pipe	Metal	Beige	Intact	0.09	mg/cm ²
Preparation	Cabinet	Vinyl	Brown	Intact	0.24	mg/cm ²
Preparation	Cabinet	Vinyl	Brown	Intact	0.26	mg/cm ²
Preparation	Shelf	Metal	Blue	Intact	0.06	mg/cm ²
Preparation	Shelf	Metal	Yellow	Intact	0.5	mg/cm ²
Preparation	Shelf	Metal	Red	Intact	0.5	mg/cm ²

Bold = Lead Based

**BOWDITCH MIDDLE SCHOOL
BUILDING E
HAZARDOUS MATERIALS SUMMARY**

Devices with Potential Hazardous Materials

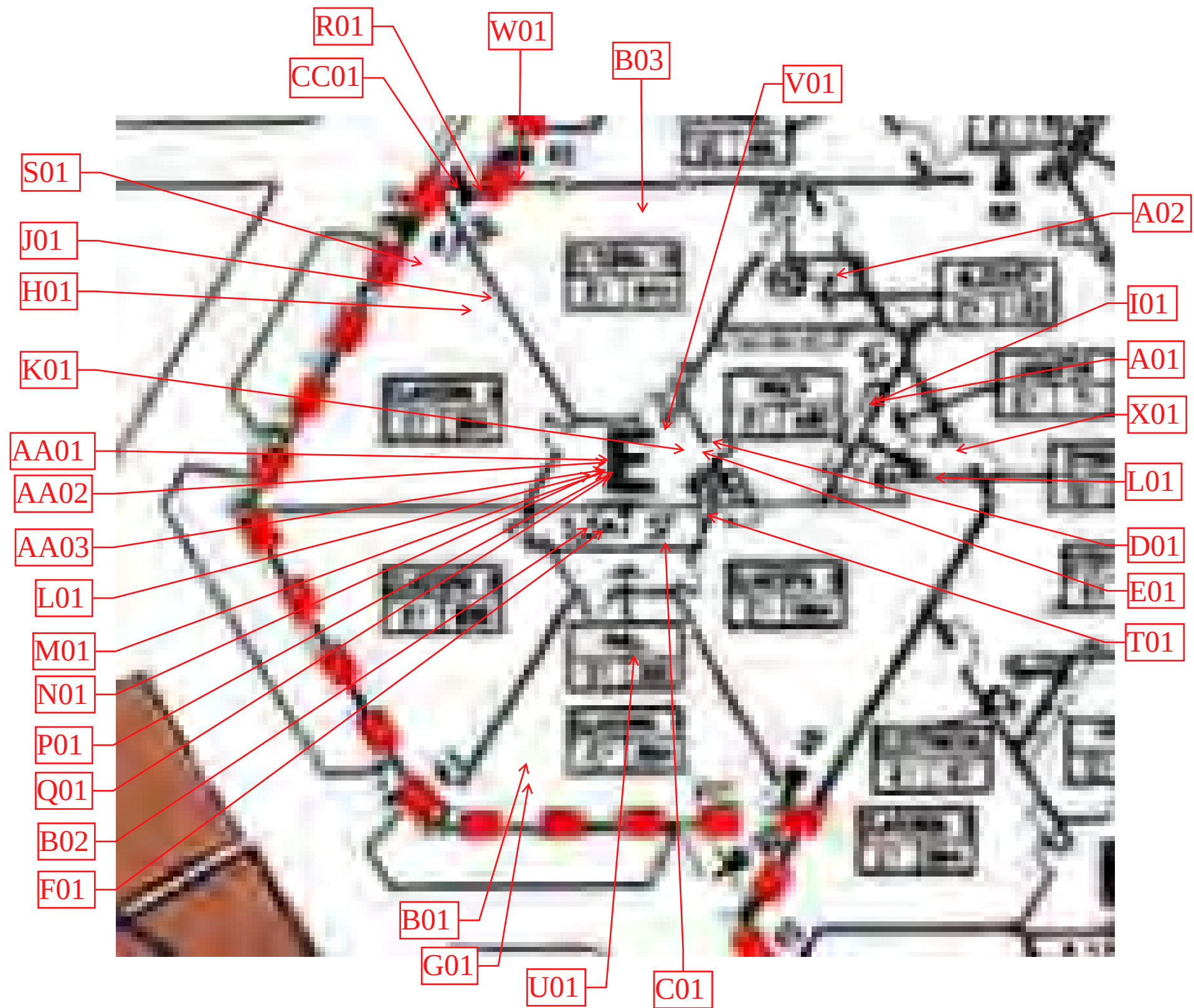
MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	209
Compact Fluorescent	Universal Waste	3
Metal Halide/Sodium	Universal Waste	4
Batteries: Emergency Lights & Exit Signs	Universal Waste	9
Light Fixture Ballasts	Polychlorinated Biphenyls or E-Waste	67
Smoke Detectors	Low-Level Radiation	8

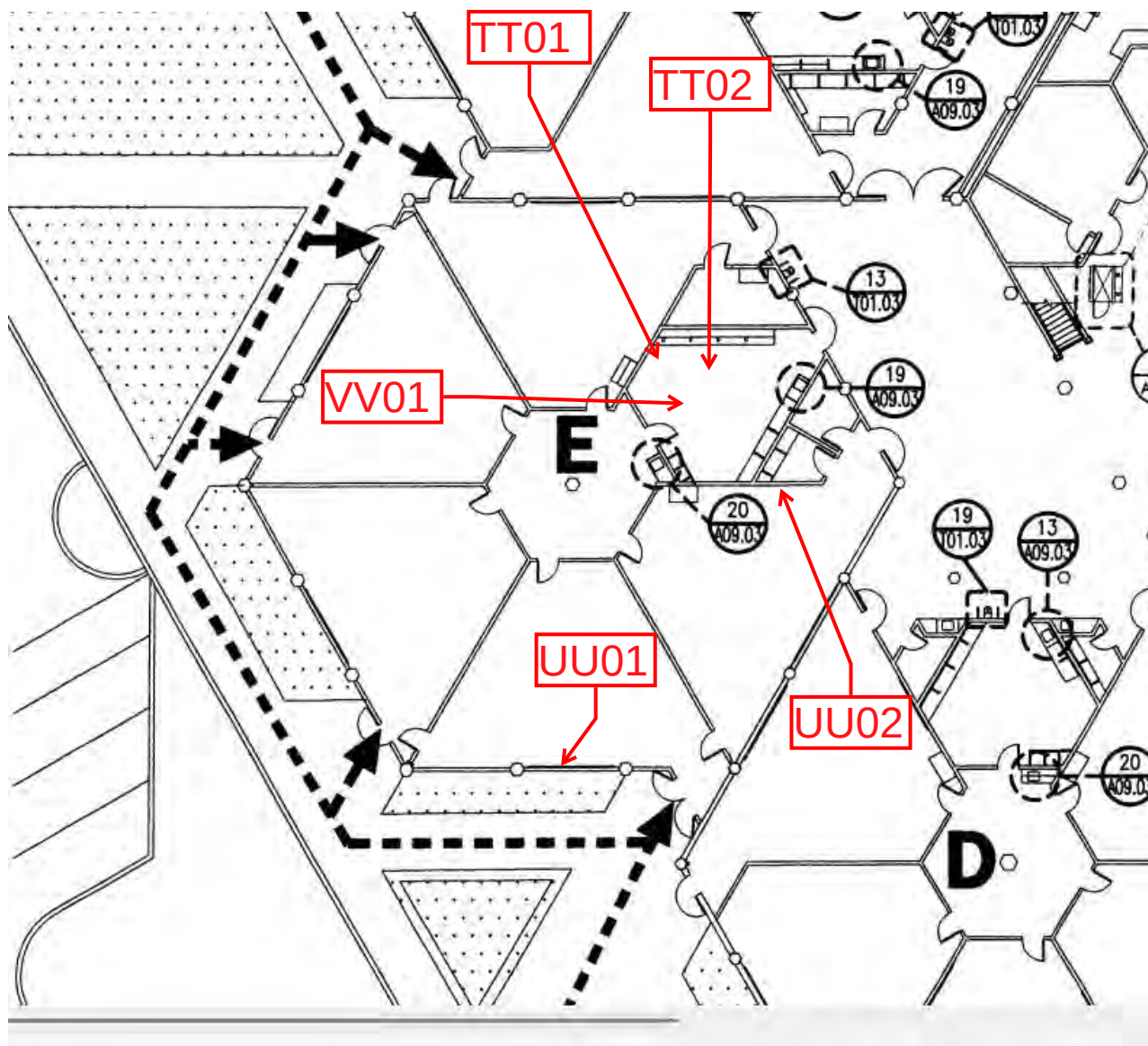
**BOWDITCH MIDDLE SCHOOL
BUILDING E
ASBESTOS SAMPLING INVENTORY**

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Wallboard/Joint Compound	White/Off-White, Smooth	2
B	Spray Applied Acoustic Ceiling	Popcorn	3
C	Wallboard/Joint Compound	White/Off-White	1
D	Basecove/Mastic	4" Grey/Beige	1
E	Sink Undercoating Mastic	Grey	1
F	Ceiling Tile	12", Tan, Fissured	1
G	Ceiling Panel	2' x 4', Fissured	1
H	Mastic	Tan, Carpet	1
I	Vinyl Floor Tile/Mastic	12" White/Tan	1
J	Duct Insulation	White, Fiberglass, Foil Backing	1
K	Vinyl Floor Tile/Mastic	12" Grey/Tan	1
L	Mastic	Tan, Duct	1
M	Mastic	Grey, Duct	1
N	Thermal System Insulation/Black	Fiberglass, Pipe, Foil Jacket/Black	1
P	Wallboard/Joint Compound	White/Off-White, Unfinished	1
Q	Roofing Debris	Black, Grey	1
R	Caulking	White, Door Frame	1
S	Mastic	Grey, Roof Flashing Seam	1
T	Mastic	Grey, Penetration	1
U	Mastic	Grey, Parapet Cap Seam	1
V	Mastic	Grey, Ladder Mount	1
W	Mastic	Black, Gutter	1

**BOWDITCH MIDDLE SCHOOL
BUILDING E
ASBESTOS SAMPLING INVENTORY**

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
X	Roof Shingle/Roof Paper	Brown/Black	1
Y	Not Used	Not Used	Not Used
Z	Panel Wall	Drywall, Wall Covering	1
AA	Thermal System Insulation	White, Hard Pack, Elbow	3
BB	Stucco	Sand Finish, Ceiling	1
CC	Caulking	Tan, Column and Wall	1
SS	Not Used	Not Used	Not Used
TT	Mastic	Dark Brown, Acoustic Ceiling Tile (F)	2
UU	Vinyl Wall/Mastic	White/Beige	2
VV	Insulation	White, Fire Door Ceiling Hatch	1







Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)

NVLAP Lab Code: 101459-0

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B331593
Date Received: 04/08/22
Date Analyzed: 04/12/22
Date Printed: 04/12/22
First Reported: 04/12/22

Job ID/Site: 211167001 - Bowditch Ms Bldg. E Coupoter**SGSFL Job ID:** L1161**Date(s) Collected:** 03/31/2022**Total Samples Submitted:** 32**Total Samples Analyzed:** 32

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
E-H-01	12552251						
Layer: Tan Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
E-I-01	12552252						
Layer: White Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
E-J-01	12552253						
Layer: Yellow Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace) Fibrous Glass (99 %)							
E-K-01	12552254						
Layer: Grey Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
E-Z-01	12552255						
Layer: White Drywall			ND				
Layer: White Semi-Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (20 %) Fibrous Glass (10 %)							
E-L-01	12552256						
Layer: Tan Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
E-M-01	12552257						
Layer: Grey Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							

Client Name: Vista Environmental Consultants**Report Number:** B331593**Date Printed:** 04/12/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
E-N-01	12552258						
Layer: Yellow Fibrous Material			ND				
Layer: Black Tar			ND				
Layer: Tan Fibrous Material			ND				
Layer: Silver Foil			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (5 %)	Fibrous Glass (85 %)						
E-P-01	12552259						
Layer: White Drywall			ND				
Layer: Off-White Joint Compound		Chrysotile	2 %				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						
E-Q-01	12552260						
Layer: Black Semi-Fibrous Tar			ND				
Layer: Silver Paint		Chrysotile	2 %				
Layer: Yellow Foam			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (10 %)							
E-A-01	12552261						
Layer: White Drywall			ND				
Layer: Off-White Joint Compound		Chrysotile	2 %				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						
E-A-02	12552262						
Layer: White Drywall			ND				
Layer: White Tape			ND				
Layer: Off-White Joint Compound		Chrysotile	2 %				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						
E-B-01	12552263						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
E-B-02	12552264						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							

Client Name: Vista Environmental Consultants**Report Number:** B331593**Date Printed:** 04/12/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
E-B-03	12552265						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
E-C-01	12552266						
Layer: White Drywall			ND				
Layer: Off-White Joint Compound		Chrysotile	2 %				
Layer: Off-White Woven Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (20 %) Fibrous Glass (10 %)							
E-D-01	12552267						
Layer: Blue Non-Fibrous Material			ND				
Layer: Off-White Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
E-E-01	12552268						
Layer: Grey Coating			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
E-F-01	12552269						
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (95 %)							
E-G-01	12552270						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (35 %) Fibrous Glass (45 %)							
E-R-01	12552271						
Layer: Beige Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
E-S-01	12552272						
Layer: Grey Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							

Client Name: Vista Environmental Consultants**Report Number:** B331593**Date Printed:** 04/12/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
E-T-01	12552273						
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
E-U-01	12552274						
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
E-V-01	12552275						
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
E-W-01	12552276						
Layer: Black Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
E-X-01	12552277						
Layer: Tan Roof Shingle			ND				
Layer: Tan Roof Shingle			ND				
Layer: Black Felt			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (15 %) Fibrous Glass (35 %)							
E-AA-01	12552278						
Layer: Grey Semi-Fibrous Material		Chrysotile	2 %				
Layer: Off-White Woven Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (5 %) Fibrous Glass (60 %)							
E-AA-02	12552279						
Layer: Grey Semi-Fibrous Material		Chrysotile	2 %				
Layer: Off-White Woven Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (5 %) Fibrous Glass (60 %)							
E-AA-03	12552280						
Layer: Grey Semi-Fibrous Material		Chrysotile	2 %				
Layer: Off-White Woven Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (5 %) Fibrous Glass (60 %)							
E-BB-01	12552281						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							

Client Name: Vista Environmental Consultants

Report Number: B331593

Date Printed: 04/12/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
E-CC-01	12552282						
Layer: Tan Non-Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



Bulk Asbestos Point Count Analysis

(NESHAP Final Rule, 40 CFR, Part 61)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: N014617
Date Received: 04/19/22
Date Analyzed: 04/19/22
Date Printed: 04/19/22

Job ID/Site: 211167001 - Bowditch Ms Bldg. E Coupoter

SGSFL Job ID: L1161

PLM Report Number: B331593

Total Samples Submitted: 4

Total Samples Analyzed: 4

Sample Preparation and Analysis:

The NESHAP Final Rule does not define the preparation method for multi-layered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

Sample ID	Lab Number	Layer Description
E-P-01	12552259	Composite of ALL Layers White Drywall Off-White Joint Compound

Point Count Results:

Number of asbestos points counted: 0
Number of non-empty points: 400
Layer percentage of entire sample: 100
Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.

E-A-01	12552261	Composite of ALL Layers White Drywall Off-White Joint Compound Paint
---------------	----------	--

Point Count Results:

Number of asbestos points counted: 0
Number of non-empty points: 400
Layer percentage of entire sample: 100
Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.



Bulk Asbestos Point Count Analysis

(NESHAP Final Rule, 40 CFR, Part 61)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: N014617
Date Received: 04/19/22
Date Analyzed: 04/19/22
Date Printed: 04/19/22

Job ID/Site: 211167001 - Bowditch Ms Bldg. E Coupoter

SGSFL Job ID: L1161

PLM Report Number: B331593

Total Samples Submitted: 4
Total Samples Analyzed: 4

Sample Preparation and Analysis:

The NESHAP Final Rule does not define the preparation method for multi-layered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

Sample ID	Lab Number	Layer Description
E-A-02	12552262	Composite of ALL Layers White Drywall White Tape Off-White Joint Compound Paint

Point Count Results:

Number of asbestos points counted: 0
Number of non-empty points: 400
Layer percentage of entire sample: 100
Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.

E-C-01	12552266	Composite of ALL Layers White Drywall Off-White Joint Compound Off-White Woven Material
---------------	----------	---

Point Count Results:

Number of asbestos points counted: 0
Number of non-empty points: 400
Layer percentage of entire sample: 100
Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.



Bulk Asbestos Point Count Analysis

(NESHAP Final Rule, 40 CFR, Part 61)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: N014617
Date Received: 04/19/22
Date Analyzed: 04/19/22
Date Printed: 04/19/22

Job ID/Site: 211167001 - Bowditch Ms Bldg. E Coupoter

SGSFL Job ID: L1161

PLM Report Number: B331593

Total Samples Submitted: 4

Total Samples Analyzed: 4

Sample Preparation and Analysis:

The NESHAP Final Rule does not define the preparation method for multi-layered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

Sample ID	Lab Number	Layer Description
-----------	------------	-------------------

Note: Point count results are reported to the nearest percent per EPA method.

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ) = 1%. Trace denotes the presence of asbestos below the LOQ. ND = None Detected.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



VISTA ENVIRONMENTAL
CONSULTING

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 03-31-2022

LOCATION: Bowditch MS Bldg. E - COMPUTER PROJECT NUMBER: 221167001

SAMPLED BY: YOLISKA R. JONES

CAC OR SST No: 15-5343
96-913

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
E	H	01	CARPET MASTIC	TAN	RM 10	
	I	01	VFT	12" WHITE W/TAN MASTIC	JANITORY	
	J	01	DUCT INSULATION	FOIL BACKING W/ FIBERGLASS	RM 10	
	K	01	VFT	12" GREY W/TAN MASTIC	WORK RM	
	Z	01	WALL PANEL	DETAILED W/ WALL COVERING	COMPUTER	
	L	01	DUCT MASTIC	TAN	PHENOM	
	M	01	DUCT MASTIC	GREY	PHENOM	
	N	01	TSI PIPE	FIBERGLASS W/ FOIL JACKET AND BLACK MASTIC	PHENOM	
	P	01	WRJC	UNFINISH	PHENOM	
	Q	01	ROOFING DEBRIS	BLACK/GREY	PHENOM	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office 510.346.8860 Cell 925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. [Signature]
TRANSFER SIGNATURE
RECEIVED
APR 08 2022
BY: [Signature] 010 8:00
TRANSFER SIGNATURE

03-31-2022
PRINTED NAME

03-31-2022
DATE/TIME

PRINTED NAME

DATE/TIME

PRINTED NAME

DATE/TIME

PAGE 1 OF 4



VISTA ENVIRONMENTAL
CONSULTING

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 03-31-2022

LOCATION: Bowditch MS Bldg. E-COMPUTER PROJECT NUMBER: 221167001

SAMPLED BY: KOLESAR-JONES

CAC OR SST No: 15-5543

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
E	A	01	WBTC	WALL SMOOTH	JANITORIAL	
	↓	02	↓	CERAMIC SMOOTH	STORAGE 1	
	B	01	SAAC	POP CORN	Rm 7	
	↓	02	↓	↓	CENTER RM	
	↓	03	↓	↓	Rm 10	
	C	01	DET WALL	W/VINYL WALL COVERING	CENTER RM	
	D	01	B/C	4" GREY W/BERBERASTIC	WORK RM	
	E	01	SUCR	GREY	WORK RM	
	F	01	C/T	12" FISSED	WORK RM	
	G	01	C/P	2'X4' FISSED	Rm 7	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. [Signature]
TRANSFER SIGNATURE
2. APR 08 2022
TRANSFER SIGNATURE
BY: [Signature] DIO 8:00
3. [Signature]
TRANSFER SIGNATURE

KOLESAR
PRINTED NAME

03-31-2022
DATE/TIME

PRINTED NAME

DATE/TIME

PRINTED NAME

DATE/TIME

PAGE 2 OF 4



VISTA ENVIRONMENTAL
CONSULTING

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 04-05-2022

LOCATION: Bowditch MS Bldg. E

PROJECT NUMBER: 221167001

SAMPLED BY: HOLESAR-ANDERSON

CAC OR SST No: 15-5543

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
E	R	01	DOOR FRAME CAULKING	WHITE	EXTERIOR AT RM 10	
	S	01	ROOF FLASHING MASTIC	GREY	ROOF	
	T	01	PENETRATION MASTIC	GREY	ROOF	
	U	01	PARAPET CAP SEAM MASTIC	GREY	ROOF	
	V	01	LADDER MOUNT MASTIC	GREY	ROOF	
	W	01	GUTTER MASTIC	BLACK	ROOF	
	X	01	ROOF SHINGLES	BROWN W/ BLACK PAPER	ROOF	
	AA	01	TSI ELBOW	WHITE HARD PACK	PHENUM	
	I	02				
		03				

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office 510.346.8860 Cell 925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. P. Holesar
TRANSFER SIGNATURE
APR 08 2022
2. [Signature]
TRANSFER SIGNATURE
BY: [Signature] 10:00
3. [Signature]
TRANSFER SIGNATURE

HOLESAR
PRINTED NAME

04-05-2022
DATE/TIME

PRINTED NAME

DATE/TIME

PRINTED NAME

DATE/TIME

PAGE 3 OF 4



VISTA ENVIRONMENTAL
CONSULTING

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 04-05-2022

LOCATION: Bowditch MS Bldg. E

PROJECT NUMBER: 221167001

SAMPLED BY: KOLESAK-ANDERSON

CAO OR SST No: 15-5543

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
E	BB	01	STUCCO CEILING	SAND FINISH	EXTERIOR BETWEEN D AND E	
↓	CC	01	COLUMN & WALL CRACKING	TAN	EXTERIOR AT DOOR	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office 510.346.8860 Cell 925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1.

RJA
TRANSFER SIGNATURE
APR 08 2022
TRANSFER SIGNATURE
BY:

KOLESAK
PRINTED NAME

04-05-2022
DATE/TIME

2.

PRINTED NAME

DATE/TIME

3.

TRANSFER SIGNATURE

PRINTED NAME

DATE/TIME

PAGE

4 OF 4

Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)
NVLAP Lab Code: 101459-0

Vista Environmental Consultants
Chris Burns
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B380931
Date Received: 02/12/26
Date Analyzed: 02/16/26
Date Printed: 02/16/26
First Reported: 02/16/26

Job ID/Site: 261167001; SMFCUSD, BOWDITCH MS, Building #E

SGSFL Job ID: L1161
Total Samples Submitted: 5
Total Samples Analyzed: 5

Date(s) Collected: 02/12/2026

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
E-TT01	12847220						
Layer: Brown Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (10 %)							
E-TT02	12847221						
Layer: Brown Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (10 %)							
E-UU01	12847222						
Layer: Off-White Woven Material			ND				
Layer: Beige Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Synthetic (20 %)							
E-UU02	12847223						
Layer: Off-White Woven Material			ND				
Layer: Beige Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Synthetic (20 %)							
E-VV01	12847224						
Layer: White Non-Fibrous Material		Chrysotile	2 %	Amosite	2 %		
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							



Maria Casper, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Inhomogeneous samples are separated into homogenous subsamples and analyzed individually. Analytical results and reports are generated by SGS at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGS to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGS. The client is solely responsible for the use and interpretation of test results and reports requested from SGS. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. SGS is not able to assess the degree of hazard resulting from materials analyzed. SGS reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



VISTA ENVIRONMENTAL
CONSULTING

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 2/12/26

LOCATION: BOWDITCH MS

PROJECT NUMBER: 261167001

SAMPLED BY: JR

(BUILDING # E)

CAC OR SST No: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
E	TT	01	Mastic	Dark Brown, ACT		
E	TT	02	↓	↓		
E	UU	01	wall vinyl/ mastic	white/ Beige		
E	UU	02	↓	↓		
E	VV	01	INSULATION	white, Fire Door Hatch		4SF
5 samples						

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com ; nocaladmin@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Luis J. Rocha
TRANSFER SIGNATURE

LUIS J. ROCHA
PRINTED NAME

02/12/26 - 1100
DATE/TIME

2. received: H
TRANSFER SIGNATURE

Holly chen
PRINTED NAME

2/12/26 @ 1130 D16
DATE/TIME

3. _____
TRANSFER SIGNATURE

PRINTED NAME

DATE/TIME

PAGE 1 OF 1

**Bowditch Middle School
Building E
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
2			SHUTTER_CAL					1.09	cps
3			CALIBRATE				Positive	1.2	mg/cm ²
4			CALIBRATE				Positive	1.2	mg/cm ²
5			CALIBRATE				Positive	1.2	mg/cm ²
127	Bldg. E	Preperation	COLUMN	CONCRETE	BEIGE	INTACT	Negative	0	mg/cm ²
128	Bldg. E	Preperation	WALL	Other	BEIGE	INTACT	Negative	0	mg/cm ²
129	Bldg. E	Preperation	Whiteboard	Other	WHITE	INTACT	Positive	4.6	mg/cm ²
130	Bldg. E	Preperation	COUNTER	VINYL	BLUE	INTACT	Negative	0	mg/cm ²
131	Bldg. E	Preperation	CEILING	Fissured	WHITE	INTACT	Negative	0	mg/cm ²
132	Bldg. E	Preperation	CEILING	PLASTER	WHITE	INTACT	Negative	0	mg/cm ²
133	Bldg. E	Preperation	BEAM BRACKET	METAL	WHITE	INTACT	Negative	0.19	mg/cm ²
134	Bldg. E	Preperation	BEAM	WOOD	WHITE	INTACT	Negative	0.05	mg/cm ²
135	Bldg. E	Preperation	DOOR FRAME	METAL	WHITE	INTACT	Negative	0.05	mg/cm ²
136	Bldg. E	Preperation	DOOR	WOOD	BLUE, DARK	INTACT	Negative	0.7	mg/cm ²
137	Bldg. E	RM 10	WALL	PLASTER	BEIGE	INTACT	Negative	0	mg/cm ²
138	Bldg. E	RM 10	DOOR FRAME	METAL	WHITE	INTACT	Negative	0	mg/cm ²
139	Bldg. E	RM 10	DOOR FRAME	WOOD	BLUE, DARK	INTACT	Negative	0.01	mg/cm ²
140	Bldg. E	RM 10	CEILING	Fissured	WHITE	INTACT	Negative	0	mg/cm ²
141	Bldg. E	RM 10	CEILING	PLASTER	WHITE	INTACT	Negative	0	mg/cm ²
142	Bldg. E	RM 10	CABINET	METAL	WHITE	INTACT	Negative	0	mg/cm ²
143	Bldg. E	RM 10	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm ²
144	Bldg. E	RM 10	DOOR	WOOD	BLUE, DARK	INTACT	Negative	0.07	mg/cm ²
145	Bldg. E	RM 10	DOOR FRAME	WOOD	WHITE	INTACT	Negative	0.09	mg/cm ²
146	Bldg. E	Corridor	WALL	Other	BEIGE	INTACT	Negative	0	mg/cm ²
147	Bldg. E	Corridor	COUNTER	VINYL	BLUE	INTACT	Negative	0	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building E
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
148	Bldg. E	Corridor	CABINET	METAL	GRAY	INTACT	Negative	0	mg/cm ²
149	Bldg. E	Corridor	CABINET	METAL	BLUE, DARK	INTACT	Negative	0.8	mg/cm ²
150	Bldg. E	Corridor	BEAM	WOOD	WHITE	INTACT	Negative	0.01	mg/cm ²
151	Bldg. E	Corridor	Light Casing	WOOD	WHITE	INTACT	Negative	0	mg/cm ²
152	Bldg. E	RM 7	BEAM BRACKET	METAL	BEIGE	INTACT	Positive	7.4	mg/cm ²
153	Bldg. E	RM 7	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm ²
154	Bldg. E	RM 7	DOOR	METAL	BLUE, LIGHT	INTACT	Negative	0	mg/cm ²
155	Bldg. E	RM 7	DOOR FRAME	WOOD	WHITE	INTACT	Negative	0.14	mg/cm ²
156	Bldg. E	RM 7	CABINET	METAL	BLUE, DARK	INTACT	Positive	1.5	mg/cm ²
157	Bldg. E	STORAGE	CABINET	METAL	BLACK	INTACT	Negative	0	mg/cm ²
158	Bldg. E	STORAGE	PIPE	METAL	WHITE	INTACT	Negative	0.1	mg/cm ²
159	Bldg. E	CUSTODIAN	SINK	PORCELAIN	WHITE	INTACT	Positive	3.4	mg/cm ²
160	Bldg. E	CUSTODIAN	SHELF	WOOD	BROWN	INTACT	Negative	0	mg/cm ²
161	Bldg. E	CUSTODIAN	HVAC	METAL	BEIGE	INTACT	Negative	0.04	mg/cm ²
162	Bldg. E	CUSTODIAN	PIPE	METAL	BEIGE	INTACT	Negative	0.07	mg/cm ²
163	Bldg. E	RM 10 Storage	PIPE	METAL	BEIGE	INTACT	Negative	0.02	mg/cm ²
164	Bldg. E	RM 10 Storage	PIPE	METAL	BEIGE	INTACT	Negative	0.09	mg/cm ²
165	Bldg. E	RM 10 Storage	HVAC	METAL	BEIGE	INTACT	Negative	0	mg/cm ²
166	Bldg. E	RM 10 Storage	HVAC	METAL	BEIGE	INTACT	Negative	0	mg/cm ²
167	Bldg. E	Preperation	CABINET	VINYL	BROWN	INTACT	Negative	0.24	mg/cm ²
168	Bldg. E	Preperation	CABINET	VINYL	BLUE	INTACT	Negative	0	mg/cm ²
169	Bldg. E	Preperation	COUNTER	VINYL	BLUE	INTACT	Negative	0	mg/cm ²
170	Bldg. E	Preperation	CABINET	VINYL	ORANGE	INTACT	Negative	0	mg/cm ²
171	Bldg. E	Preperation	CABINET	VINYL	BROWN	INTACT	Negative	0.26	mg/cm ²
172	Bldg. E	Preperation	SHELF	METAL	BLUE	INTACT	Negative	0.06	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building E
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
173	Bldg. E	Preperation	SHELF	METAL	YELLOW	INTACT	Negative	0.5	mg/cm ²
174	Bldg. E	Preperation	SHELF	METAL	RED	INTACT	Negative	0.5	mg/cm ²
202			CALIBRATE				Positive	1.2	mg/cm ²
203			CALIBRATE				Positive	1.2	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building E
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
1			SHUTTER_CAL					1.28	cps
2			CALIBRATE				Positive	1.1	mg/cm ²
3			CALIBRATE				Positive	1.1	mg/cm ²
4			CALIBRATE				Positive	1.2	mg/cm ²
13	E	OUTSIDE	FLOOR STRIPE	CONCRETE	RED	INTACT	Negative	0	mg/cm ²
14	E	OUTSIDE	WALL	WOOD	TAN	INTACT	Negative	0	mg/cm ²
15	E	OUTSIDE	COLUMN	CONCRETE	TAN	INTACT	Negative	0	mg/cm ²
16	E	OUTSIDE	BEAM BRACKET	METAL	TAN	INTACT	Positive	3.2	mg/cm ²
17	E	OUTSIDE	EAVE	WOOD	TAN	INTACT	Negative	0	mg/cm ²
18	E	OUTSIDE	FLASHING	METAL	BLUE	INTACT	Negative	0	mg/cm ²
19	E	OUTSIDE	FASCIA	WOOD	BLUE	INTACT	Negative	0	mg/cm ²
46	E	ROOF	FLOOR	RUBBER	WHITE	INTACT	Negative	0	mg/cm ²
47	E	ROOF	VENT	METAL	TAN	INTACT	Negative	0	mg/cm ²
48	E	ROOF	FLASHING	METAL	TAN	INTACT	Negative	0	mg/cm ²
49	E	ROOF	FLASHING	METAL	BLUE	INTACT	Negative	0	mg/cm ²
50	E	ROOF	HVAC	METAL	TAN	INTACT	Negative	0	mg/cm ²
51	E	ROOF	HATCH	METAL	TAN	INTACT	Negative	0.01	mg/cm ²
88			CALIBRATE				Positive	1	mg/cm ²
89			CALIBRATE				Positive	1	mg/cm ²
90			CALIBRATE				Positive	1.1	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

BOWDITCH MIDDLE SCHOOL BUILDING F



The information contained in these appendices are not stand-alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAD & Cal-OSHA classifications are based on the materials being

BOWDITCH MIDDLE SCHOOL BUILDING F HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/Off-White, Smooth	Interior - Walls and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	29,000 SF
C	Wallboard/Joint Compound	White/Off-White	Interior - w/Vinyl Wall Covering	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
AA	Thermal System Insulation	White, Hard Pack, Elbow	Interior - Plenum	Class I	Friable (RACM when Removed)	8 SF
VV	Insulation	White, Fire Door Ceiling Hatch	Interior – Break Room	Unclassified	Friable (RACM when Removed)	4 SF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
Outside	Pipe	Metal	Tan	Intact	0.09	mg/cm ²
Outside	Beam Bracket	Metal	Tan	Intact	5.5	mg/cm²
Roof	Beam Bracket	Metal	Tan	Intact	1.2	mg/cm²
Preparation	Cabinet	Vinyl	Brown	Intact	0.4	mg/cm ²
Preparation	Shelf	Metal	Blue	Intact	0.04	mg/cm ²
Preparation	Shelf	Metal	Green	Intact	0.4	mg/cm ²
Preparation	Shelf	Metal	Red	Intact	0.5	mg/cm ²
Preparation	Cabinet	Metal	Beige	Intact	0.01	mg/cm ²
Preparation	Cabinet	Vinyl	Brown	Intact	0.27	mg/cm ²
Corridor	Column	Wood	White	Intact	0.01	mg/cm ²
RM 15	Door Frame	Metal	White	Intact	0.06	mg/cm ²
Electrical	Pipe	Metal	Gray	Intact	0.4	mg/cm ²

BOWDITCH MIDDLE SCHOOL BUILDING F HAZARDOUS MATERIALS SUMMARY

Room	Component	Substrate	Color	Condition	Pb	Units
Storage 2	HVAC	Metal	Beige	Intact	0.03	mg/cm ²
Storage 2	Shelf	Metal	Beige	Intact	0.01	mg/cm ²
Storage 2	Cabinet	Vinyl	Brown	Intact	0.19	mg/cm ²
Storage 1	Cabinet	Vinyl	Brown	Intact	0.04	mg/cm ²
Storage 1	Pipe	Metal	Beige	Intact	0.07	mg/cm ²
Storage 1	Hvac	Metal	Beige	Intact	0.07	mg/cm ²
Storage 1	Beam Bracket	Metal	Beige	Intact	3.1	mg/cm²

Bold = Lead Based

Devices with Potential Hazardous Materials

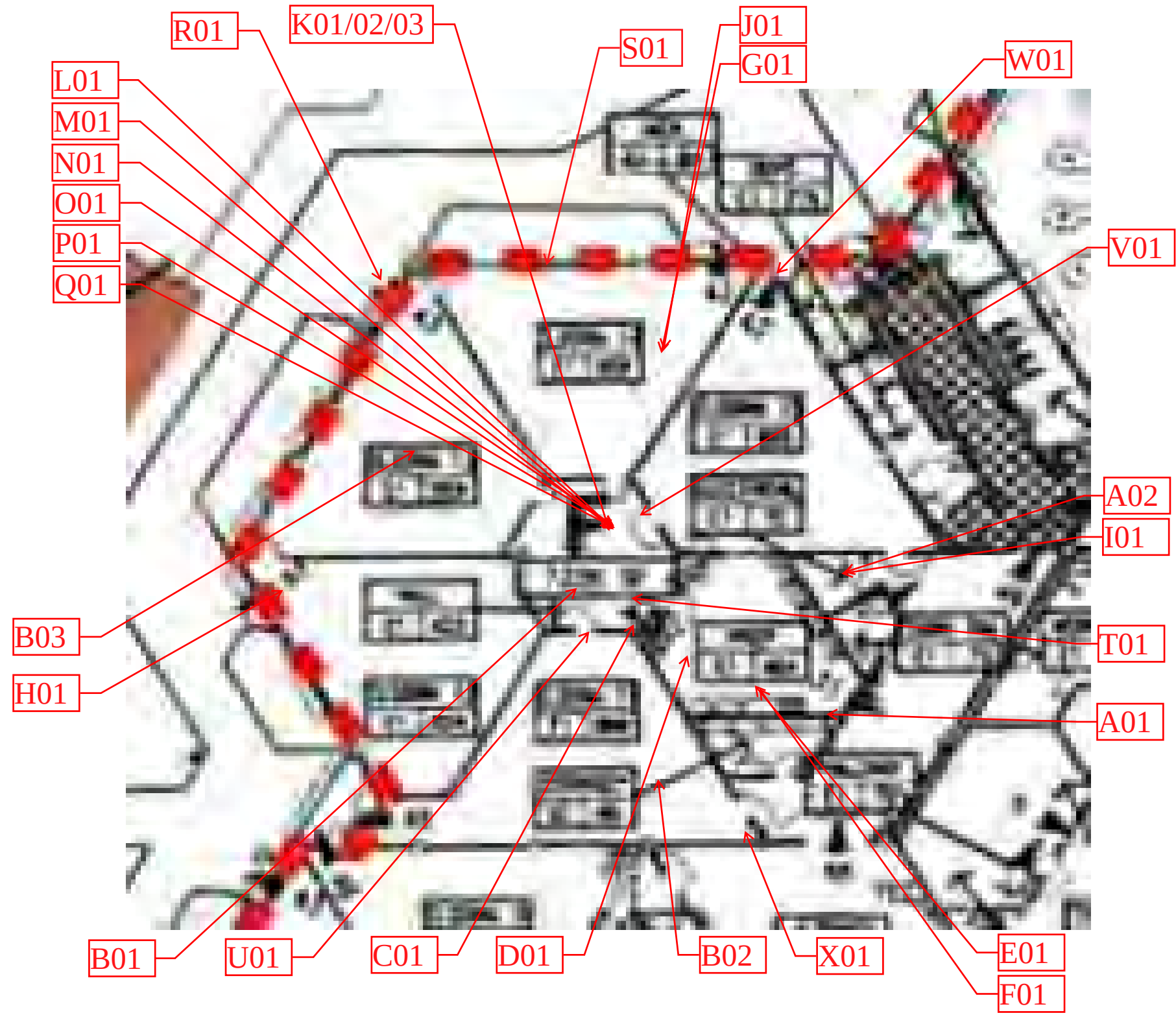
MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	195
Compact Fluorescent	Universal Waste	2
Metal Halide/Sodium	Universal Waste	2
Batteries: Emergency Lights & Exit Signs	Universal Waste	6
Light Fixture Ballasts	Polychlorinated Biphenyls or E-Waste	64
Smoke Detectors	Low-Level Radiation	14

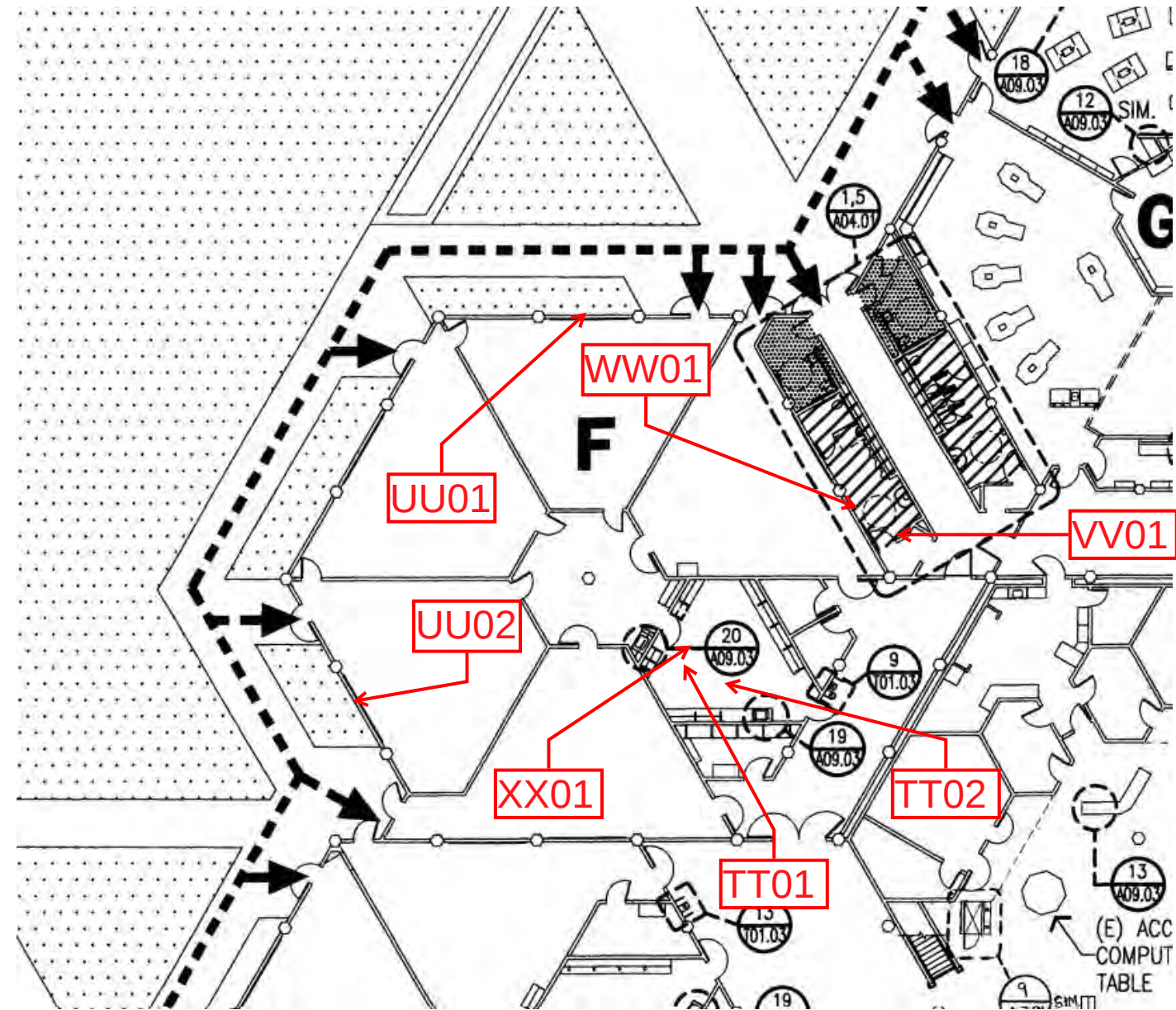
**BOWDITCH MIDDLE SCHOOL
BUILDING F
ASBESTOS SAMPLING INVENTORY**

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Wallboard/Joint Compound	White/Off-White, Smooth	2
B	Spray Applied Acoustic Ceiling	Popcorn	3
C	Wallboard/Joint Compound	White/Off-White	1
D	Basecove/Mastic	4" Grey/Beige	1
E	Sink Undercoating Mastic	Grey	1
F	Ceiling Tile	12" White, Fissured	1
G	Ceiling Panel	2' x 4' Fissured	1
H	Mastic	Tan, Carpet	1
I	Vinyl Floor Tile/Mastic	12" White/Tan	1
J	Duct Insulation	Pink, Fiberglass, Foil Backing	1
L	Mastic	Tan, Duct	1
M	Mastic	Grey, Duct	1
N	Thermal System Insulation/Mastic	Fiberglass, Foil Jacket/Black	1
P	Wallboard/Joint Compound	Unfinished	1
Q	Roofing Debris	Black, Grey	1
R	Caulking	White, Door Frame	1
S	Mastic	Grey, Roof Flashing Seam	1
T	Mastic	Grey, Penetration	1
U	Mastic	Grey, Parapet Cap Seam	1
V	Mastic	Grey, Ladder Mount	1
W	Mastic	Black, Gutter	1
X	Roof Shingle/Roof Paper	Brown/Black	1

**BOWDITCH MIDDLE SCHOOL
BUILDING F
ASBESTOS SAMPLING INVENTORY**

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
Y	Not Used	Not Used	NA
AA	Thermal System Insulation	White, Hard Pack, Elbow	3
SS	Not Used	Not Used	NA
TT	Mastic	Dark Brown, Acoustic Ceiling Tile (F)	2
UU	Vinyl Wall/Mastic	White/Beige	2
VV	Flooring	Tan, Terrazzo	1
WW	Mortar/Grout	Brown/Brown, Ceramic Tile	1
XX	Insulation	White, Fire Door Ceiling Hatch	1







Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)

NVLAP Lab Code: 101459-0

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B331525
Date Received: 04/08/22
Date Analyzed: 04/13/22
Date Printed: 04/13/22
First Reported: 04/13/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS Bldg. F

SGSFL Job ID: L1161
Total Samples Submitted: 29
Total Samples Analyzed: 29

Date(s) Collected: 03/31/2022

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
F-A-01	12551803						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						
F-A-02	12551804						
Layer: White Drywall			ND				
Layer: Off-White Joint Compound		Chrysotile	2 %				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						
F-B-01	12551805						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
F-B-02	12551806						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
F-B-03	12551807						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							

Client Name: Vista Environmental Consultants**Report Number:** B331525**Date Printed:** 04/13/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
F-C-01	12551808						
Layer: White Drywall			ND				
Layer: Off-White Joint Compound		Chrysotile	2 %				
Layer: Off-White Adhesive			ND				
Layer: White Woven Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						
F-D-01	12551809						
Layer: Grey Non-Fibrous Material			ND				
Layer: Beige Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
F-E-01	12551810						
Layer: Grey Coating			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
F-F-01	12551811						
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (95 %)							
F-G-01	12551812						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (35 %)	Fibrous Glass (45 %)						
F-H-01	12551813						
Layer: Tan Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
F-I-01	12551814						
Layer: White Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
F-J-01	12551815						
Layer: Pink Fibrous Material			ND				
Layer: Silver Foil			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)	Fibrous Glass (99 %)						

Client Name: Vista Environmental Consultants**Report Number:** B331525**Date Printed:** 04/13/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
F-AA-01	12551816						
Layer: Grey Semi-Fibrous Material		Chrysotile	2 %				
Layer: White Woven Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (5 %)	Fibrous Glass (60 %)						
F-AA-02	12551817						
Layer: Grey Semi-Fibrous Material		Chrysotile	2 %				
Layer: White Woven Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (5 %)	Fibrous Glass (60 %)						
F-AA-03	12551818						
Layer: Grey Semi-Fibrous Material		Chrysotile	2 %				
Layer: White Woven Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (5 %)	Fibrous Glass (60 %)						
F-L-01	12551819						
Layer: White Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)	Synthetic (10 %)						
F-M-01	12551820						
Layer: Grey Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
F-N-01	12551821						
Layer: Tan Fibrous Material			ND				
Layer: Black Tar			ND				
Layer: Tan Fibrous Material			ND				
Layer: Silver Foil			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (10 %)	Fibrous Glass (75 %)						
F-O-01	12551822						
Layer: Pink Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)	Fibrous Glass (99 %)						
F-P-01	12551823						
Layer: White Drywall			ND				
Layer: Off-White Joint Compound			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						
F-Q-01	12551824						
Layer: Roof Debris			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (10 %)	Fibrous Glass (10 %)						

Client Name: Vista Environmental Consultants

Report Number: B331525

Date Printed: 04/13/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
F-R-01	12551825						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
F-S-01	12551826						
Layer: Grey Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
F-T-01	12551827						
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
F-U-01	12551828						
Layer: Grey Non-Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
F-V-01	12551829						
Layer: Grey Non-Fibrous Material			ND				
Layer: Black Tar			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
F-W-01	12551830						
Layer: Black/Tan Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
F-X-01	12551831						
Layer: Brown Roof Shingle			ND				
Layer: Grey Mastic			ND				
Layer: Black Felt			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (25 %) Fibrous Glass (25 %)							



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



Bulk Asbestos Point Count Analysis

(NESHAP Final Rule, 40 CFR, Part 61)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: N014618
Date Received: 04/19/22
Date Analyzed: 04/19/22
Date Printed: 04/19/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS Bldg. F

SGSFL Job ID: L1161

PLM Report Number: B331525

Total Samples Submitted: 2
Total Samples Analyzed: 2

Sample Preparation and Analysis:

The NESHAP Final Rule does not define the preparation method for multi-layered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

Sample ID	Lab Number	Layer Description
F-A-02	12551804	Composite of ALL Layers White Drywall Off-White Joint Compound Paint

Point Count Results:

Number of asbestos points counted: 0
Number of non-empty points: 400
Layer percentage of entire sample: 100
Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.

F-C-01	12551808	Composite of ALL Layers White Drywall Off-White Joint Compound Off-White Adhesive White Woven Material
---------------	----------	---

Point Count Results:

Number of asbestos points counted: 0
Number of non-empty points: 400
Layer percentage of entire sample: 100
Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.



Bulk Asbestos Point Count Analysis

(NESHAP Final Rule, 40 CFR, Part 61)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: N014618
Date Received: 04/19/22
Date Analyzed: 04/19/22
Date Printed: 04/19/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS Bldg. F

SGSFL Job ID: L1161

PLM Report Number: B331525

Total Samples Submitted: 2

Total Samples Analyzed: 2

Sample Preparation and Analysis:

The NESHAP Final Rule does not define the preparation method for multi-layered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

Sample ID	Lab Number	Layer Description
-----------	------------	-------------------

Note: Point count results are reported to the nearest percent per EPA method.

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ) = 1%. Trace denotes the presence of asbestos below the LOQ. ND = None Detected.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 03-31-2022

LOCATION: Bowditch MS Bldg. F

PROJECT NUMBER: 221167001

SAMPLED BY: KOLESNAR-JONES

(CAC) OR SST No: 15-5543
96-1913

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
F	A	01	WBTC	WALL SMOOTH	WORK RM	
	↓	02	↓	CEILING SMOOTH	STORAGE 2	
	B	01	SAAC	PORCEN	CENTER RM	
	↓	02	↓	↓	RM 11	
	↓	03	↓	↓	RM 13	
	C	01	DRYWALL	W/VINYL WALL COVERING	CENTER RM	
	D	01	B/C	4" GREY W/BEIGE MANTLE	WORK RM	
	E	01	SUCH	GREY	WORK RM	
	F	01	CIT	12" FISSED	WORK RM	
↓	G	01	C/P	2' X 4' FISSED	RM 14	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. RH
TRANSFER SIGNATURE

2. CLM
TRANSFER SIGNATURE

3. _____
TRANSFER SIGNATURE

KOLESNAR 03-31-2022
PRINTED NAME DATE/TIME

D/O APR 08 2022 8am
PRINTED NAME DATE/TIME

BT: _____
PRINTED NAME DATE/TIME

PAGE 1 OF 3



OFFICE	510.346.8860
FAX	888.653.8889

CAC OR SST No: 15-5543
96, 1913

is labeled

F-AA-01
F-AA-02
F-AA-03 cym

PAGE 2 OF 3



2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 04-05-2022

LOCATION: Bowditch MS Bldg F

PROJECT NUMBER: 221167001

SAMPLED BY: KOLESAK - ANDERSON

CAD OR SST No: 155543

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
F	P	01	WBTC	UNFINISH	PHENUM	
	Q	01	ROOFING DEBRIS	BLACK/GREY	PHENUM	
	R	01	DOOR FRAME CRACKING	WHITE	EXTERIOR AT 13	
	S	01	ROOF FLASHING SEMI MASTIC	GREY	EXTERIOR AT 14	
	T	01	PENETRATION MASTIC	GREY	ROOF	
	U	01	PARAPET CAP SEMI MASTIC	GREY	ROOF	
	V	01	LADDER MOUNT MASTIC	GREY	ROOF	
	W	01	GUTTER MASTIC	BLACK	ROOF	
	X	01	ROOF SHINGLE	BROWN W/BLK PAPER	ROOF	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. [Signature]
TRANSFER SIGNATURE

KOLESAK 03-31-2022
PRINTED NAME DATE/TIME

2. [Signature]
TRANSFER SIGNATURE

D/O APR 08 2022 Sam
PRINTED NAME DATE/TIME

3. _____
TRANSFER SIGNATURE

PRINTED NAME DATE/TIME

PAGE 3 OF 3

Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)
NVLAP Lab Code: 101459-0

Vista Environmental Consultants
Chris Burns
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B380932
Date Received: 02/12/26
Date Analyzed: 02/16/26
Date Printed: 02/16/26
First Reported: 02/16/26

Job ID/Site: 261167001; SMFCUSD, BOWDITCH MS, Building F

SGSFL Job ID: L1161
Total Samples Submitted: 7
Total Samples Analyzed: 7

Date(s) Collected: 02/12/2026

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
F-TT01	12847225						
Layer: Brown Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (10 %)							
F-TT02	12847226						
Layer: Brown Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (10 %)							
F-UU01	12847227						
Layer: Off-White Woven Material			ND				
Layer: Beige Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Synthetic (20 %)							
F-UU02	12847228						
Layer: Off-White Woven Material			ND				
Layer: Beige Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Synthetic (20 %)							
F-VV01	12847229						
Layer: Grey Flooring			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
F-WW01	12847230						
Layer: Brown Grout			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (2 %)							
F-XX01	12847231						
Layer: White Non-Fibrous Material		Chrysotile	2 %	Amosite	2 %		
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							

Client Name: Vista Environmental Consultants

Report Number: B380932

Date Printed: 02/16/26

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
-----------	------------	------------------	---------------------	------------------	---------------------	------------------	---------------------

Maria E. Casper

Maria Casper, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Inhomogeneous samples are separated into homogenous subsamples and analyzed individually. Analytical results and reports are generated by SGS at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGS to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGS. The client is solely responsible for the use and interpretation of test results and reports requested from SGS. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. SGS is not able to assess the degree of hazard resulting from materials analyzed. SGS reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 2/12/26

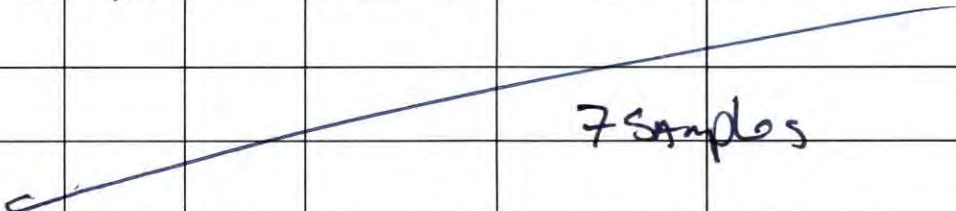
LOCATION: BOWDITCH MS

PROJECT NUMBER: 261167001

SAMPLED BY: JR

(BUILDING # F)

CAC OR SST No: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
F	TT	01	Mastic	DARK Brown, ACT		
F	TT	02	↓	↓		
F	UU	01	Vinyl wall/ mastic	white/ Beige		
F	UU	02	↓	↓		
F	VV	01	Flooring	TAN, Terrazzo		
F	WW	01	Mortar/ Grout	Brown/Brown Ceramic tile		
F	XX	01	INSULATION	white, Fiberglass hatch		4SC
						

7 samples

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com ; nocaladmin@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Luis J. Rocha
TRANSFER SIGNATURE

LUIS J. ROCHA
PRINTED NAME

02/12/26 1100
DATE/TIME

2. received #7
TRANSFER SIGNATURE

Holly chen
PRINTED NAME

2/12/26 @ 1130 DTD
DATE/TIME

3. _____
TRANSFER SIGNATURE

PRINTED NAME

DATE/TIME

PAGE 1 OF 1

**Bowditch Middle School
Building F
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
2			SHUTTER_CAL					1.09	cps
3			CALIBRATE				Positive	1.2	mg/cm ²
4			CALIBRATE				Positive	1.2	mg/cm ²
5			CALIBRATE				Positive	1.2	mg/cm ²
84	Bldg. F	Preperation	COUNTER	VINYL	BLUE	INTACT	Negative	0	mg/cm ²
85	Bldg. F	Preperation	CABINET	VINYL	ORANGE	INTACT	Negative	0	mg/cm ²
86	Bldg. F	Preperation	CABINET	VINYL	BROWN	INTACT	Negative	0.4	mg/cm ²
87	Bldg. F	Preperation	SHELF	METAL	BLUE	INTACT	Negative	0.04	mg/cm ²
88	Bldg. F	Preperation	SHELF	METAL	GREEN	INTACT	Negative	0.4	mg/cm ²
89	Bldg. F	Preperation	SHELF	METAL	RED	INTACT	Negative	0.5	mg/cm ²
90	Bldg. F	Preperation	WALL	DRYWALL	WHITE	INTACT	Negative	0	mg/cm ²
91	Bldg. F	Preperation	DOOR FRAME	METAL	WHITE	INTACT	Negative	0	mg/cm ²
92	Bldg. F	Preperation	DOOR	WOOD	BLUE, DARK	INTACT	Negative	0	mg/cm ²
93	Bldg. F	Preperation	CABINET	METAL	BEIGE	INTACT	Negative	0.01	mg/cm ²
94	Bldg. F	Preperation	CABINET	VINYL	BROWN	INTACT	Negative	0.27	mg/cm ²
95	Bldg. F	Corridor	COUNTER	VINYL	BLUE	INTACT	Negative	0	mg/cm ²
96	Bldg. F	Corridor	WALL PANEL	VINYL	BEIGE	INTACT	Negative	0	mg/cm ²
97	Bldg. F	Corridor	CABINET	METAL	BLUE, DARK	INTACT	Negative	0	mg/cm ²
98	Bldg. F	Corridor	COLUMN	CONCRETE	BEIGE	INTACT	Negative	0	mg/cm ²
99	Bldg. F	Corridor	CABINET	METAL	BEIGE	INTACT	Negative	0	mg/cm ²
100	Bldg. F	Corridor	COLUMN	WOOD	WHITE	INTACT	Negative	0.01	mg/cm ²
101	Bldg. F	Corridor	CEILING	PLASTER	WHITE	INTACT	Negative	0	mg/cm ²
102	Bldg. F	RM 11	Whiteboard	Other	WHITE	INTACT	Negative	0	mg/cm ²
103	Bldg. F	RM 11	COLUMN	CONCRETE	BEIGE	INTACT	Negative	0	mg/cm ²
104	Bldg. F	RM 11	CEILING	Fissured	WHITE	INTACT	Negative	0	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building F
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
105	Bldg. F	RM 15	Whiteboard	Other	WHITE	INTACT	Negative	0	mg/cm ²
106	Bldg. F	RM 15	WALL	DRYWALL	BEIGE	INTACT	Negative	0	mg/cm ²
107	Bldg. F	RM 15	DOOR	METAL	BLUE, LIGHT	INTACT	Negative	0	mg/cm ²
108	Bldg. F	RM 15	DOOR FRAME	METAL	WHITE	INTACT	Negative	0.06	mg/cm ²
109	Bldg. F	RM 15	TRIM	WOOD	WHITE	INTACT	Negative	0	mg/cm ²
110	Bldg. F	RM 15	Floor Outlet	METAL	VARNISH	INTACT	Negative	0	mg/cm ²
111	Bldg. F	RM 14	Floor Outlet	METAL	VARNISH	INTACT	Negative	0	mg/cm ²
112	Bldg. F	RM 14	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm ²
113	Bldg. F	RM 14	CEILING	Fissured	WHITE	INTACT	Negative	0	mg/cm ²
114	Bldg. F	RM 14	CEILING	STUCCO	WHITE	INTACT	Negative	0	mg/cm ²
115	Bldg. F	Electrical	CABINET	METAL	WHITE	INTACT	Negative	0	mg/cm ²
116	Bldg. F	Electrical	PIPE	METAL	WHITE	INTACT	Negative	0	mg/cm ²
117	Bldg. F	Electrical	PIPE	METAL	GRAY	INTACT	Negative	0.4	mg/cm ²
118	Bldg. F	Electrical	PIPE	METAL	BLUE, LIGHT	INTACT	Negative	0	mg/cm ²
119	Bldg. F	STORAGE 2	HVAC	METAL	BEIGE	INTACT	Negative	0.03	mg/cm ²
120	Bldg. F	STORAGE 2	SHELF	METAL	BEIGE	INTACT	Negative	0.01	mg/cm ²
121	Bldg. F	STORAGE 2	COUNTER	VINYL	BLACK	INTACT	Negative	0	mg/cm ²
122	Bldg. F	STORAGE 2	CABINET	VINYL	BROWN	INTACT	Negative	0.19	mg/cm ²
123	Bldg. F	STORAGE 1	CABINET	VINYL	BROWN	INTACT	Negative	0.04	mg/cm ²
124	Bldg. F	STORAGE 1	PIPE	METAL	BEIGE	INTACT	Negative	0.07	mg/cm ²
125	Bldg. F	STORAGE 1	HVAC	METAL	BEIGE	INTACT	Negative	0.07	mg/cm ²
126	Bldg. F	STORAGE 1	BEAM BRACKET	METAL	BEIGE	INTACT	Positive	3.1	mg/cm ²
202			CALIBRATE				Positive	1.2	mg/cm ²
203			CALIBRATE				Positive	1.2	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building F
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
1			SHUTTER_CAL					1.28	cps
2			CALIBRATE				Positive	1.1	mg/cm ²
3			CALIBRATE				Positive	1.1	mg/cm ²
4			CALIBRATE				Positive	1.2	mg/cm ²
5	F	OUTSIDE	WALL	WOOD	TAN	INTACT	Negative	0	mg/cm ²
6	F	OUTSIDE	PIPE	METAL	TAN	INTACT	Negative	0.09	mg/cm ²
7	F	OUTSIDE	EAVE	WOOD	TAN	INTACT	Negative	0	mg/cm ²
8	F	OUTSIDE	FLASHING	METAL	BLUE	INTACT	Negative	0	mg/cm ²
9	F	OUTSIDE	FASCIA	WOOD	BLUE	INTACT	Negative	0	mg/cm ²
10	F	OUTSIDE	COLUMN	CONCRETE	TAN	INTACT	Negative	0	mg/cm ²
11	F	OUTSIDE	BEAM BRACKET	METAL	TAN	INTACT	Positive	5.5	mg/cm ²
12	F	OUTSIDE	FLOOR STRIPE	CONCRETE	RED	INTACT	Negative	0	mg/cm ²
52	F	ROOF	VENT	METAL	TAN	INTACT	Negative	0	mg/cm ²
53	F	ROOF	FLASHING	METAL	TAN	INTACT	Negative	0	mg/cm ²
54	F	ROOF	FLASHING	METAL	BLUE	INTACT	Negative	0	mg/cm ²
55	F	ROOF	HVAC	METAL	TAN	INTACT	Negative	0	mg/cm ²
56	F	ROOF	WALL	CONCRETE	PINK	INTACT	Negative	0	mg/cm ²
57	F	ROOF	FLASHING	METAL	BLUE	INTACT	Negative	0	mg/cm ²
58	F	ROOF	FLOOR	RUBBER	WHITE	INTACT	Negative	0	mg/cm ²
59	F	ROOF	ROOF	OTHER	MULTI	INTACT	Negative	0	mg/cm ²
60	F	ROOF	WALL	WOOD	TAN	INTACT	Negative	0	mg/cm ²
61	F	ROOF	COLUMN	CONCRETE	TAN	INTACT	Negative	0	mg/cm ²
62	F	ROOF	BEAM BRACKET	METAL	TAN	INTACT	Positive	1.2	mg/cm ²
88			CALIBRATE				Positive	1	mg/cm ²
89			CALIBRATE				Positive	1	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building F
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
90			CALIBRATE				Positive	1.1	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

BOWDITCH MIDDLE SCHOOL BUILDING G



The information contained in these appendices are not stand-alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAD & Cal-OSHA classifications are based on the materials being

BOWDITCH MIDDLE SCHOOL BUILDING G HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/White	Interior - Walls and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	29,500 SF
M	Cement	Black	Interior - Table Top, Counter	Class II	Category II - Non-Friable	500 SF
P	Thermal System Insulation	Hard Pack, Elbows (Assumed)	Interior - Plenum	Class I	Friable (RACM when Removed)	15 SF
R	Wallboard/Joint Compound	Unfinished (Assumed)	Interior - Plenum	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
S	Mastic	Tan, Duct (Assumed)	Interior - Plenum	Class II	Category I - Non-Friable	50 SF
ZZ	Insulation	White, Fire Door Ceiling Hatch	Interior – Break Room	Unclassified	Friable (RACM when Removed)	4 SF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
Inside	Door	Metal	White	Intact	0.1	mg/cm ²
Inside	Door	Metal	White	Intact	0.1	mg/cm ²
Inside	Counter	Other	Blue	Intact	0.1	mg/cm ²
Inside	Counter	Other	Black	Intact	0.1	mg/cm ²
Inside	Shelf	Other	Blue	Intact	0.1	mg/cm ²
Inside	Shelf	Other	Blue	Intact	0.2	mg/cm ²
Inside	Other	Other	White	Intact	0.1	mg/cm ²
Inside	Other	Other	White	Intact	0.2	mg/cm ²

BOWDITCH MIDDLE SCHOOL BUILDING G HAZARDOUS MATERIALS SUMMARY

Room	Component	Substrate	Color	Condition	Pb	Units
Inside	Cabinet	Metal	Dk-Blue	Intact	0.7	mg/cm ²
Inside	Cabinet	Metal	Dk-Blue	Intact	0.9	mg/cm ²
Inside	Cabinet	Metal	White	Intact	0.1	mg/cm ²
Inside	Cabinet	Metal	Green	Intact	0.1	mg/cm ²
Inside	HVAC	Metal	White	Intact	0.1	mg/cm ²
Inside	HVAC	Metal	White	Intact	0.1	mg/cm ²
Inside	Other	Metal	White	Intact	0.5	mg/cm ²
Inside	Other	Metal	White	Intact	0.4	mg/cm ²
Exterior	Pipe	Metal	Tan	Intact	0.2	mg/cm ²
Exterior	Sign	Metal	White	Intact	0.01	mg/cm ²

Devices with Potential Hazardous Materials

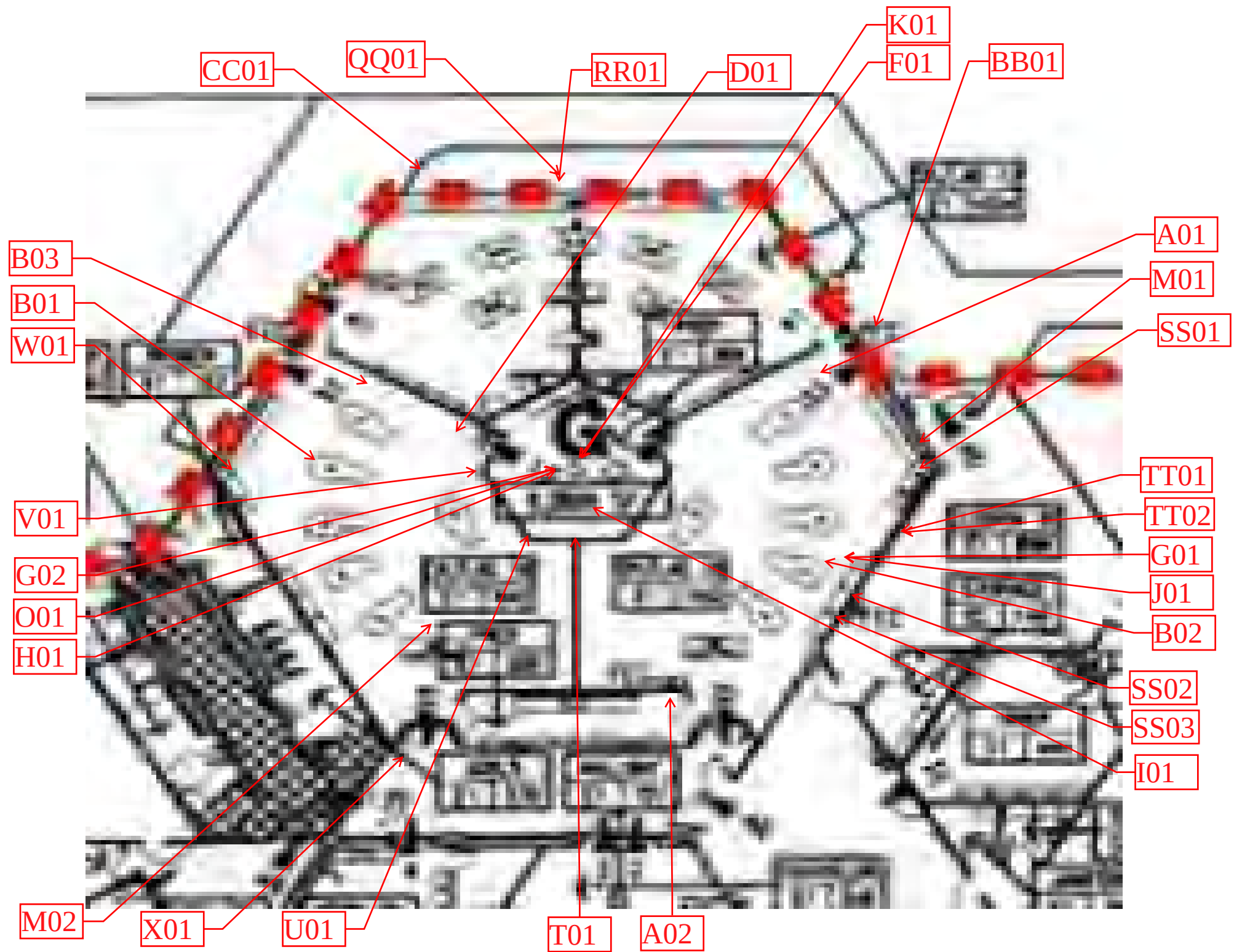
MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	154
Metal Halide/Sodium	Universal Waste	1
Batteries: Emergency Lights & Exit Signs	Universal Waste	6
Light Fixture Ballasts	Polychlorinated Biphenyls or E-Waste	65
Smoke Detectors	Low-Level Radiation	11

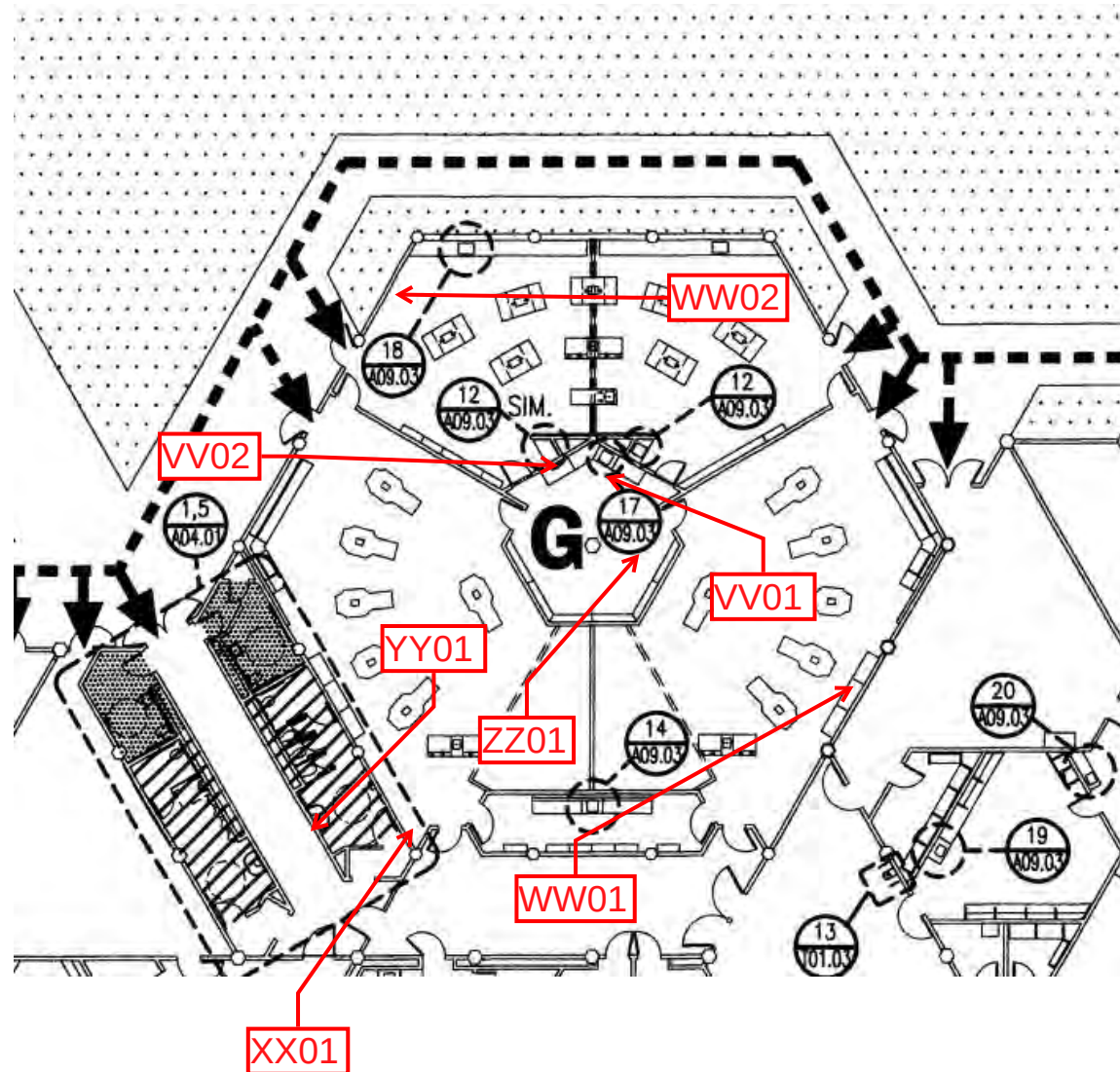
BOWDITCH MIDDLE SCHOOL BUILDING G ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Wallboard/Joint Compound	White/White	2
B	Spray Applied Acoustic Ceiling	Popcorn	3
D	Basecove/Mastic	4" Grey/Beige	1
F	Ceiling Tile	12" Fissured	1
G	Ceiling Panel	2' x 4' Fissured	1
I	Vinyl Flooring Tile/Mastic	12" White/Tan	1
J	Insulation	White, Fiberglass, Duct	1
K	Vinyl Flooring Tile/Mastic	12" Grey/Tan	1
M	Cement	Black	2
N	Duct/Mastic	Grey/Tan	1
O	Roofing Debris	Black, Grey	2
P	Thermal System Insulation	Hard Pack, Elbows, Plenum and Walls	Assumed
Q	Not Used	Not Used	NA
R	Wallboard/Joint Compound	Unfinished	Assumed
S	Mastic	Tan, Duct	Assumed
T	Mastic	Grey, Penetration	1
U	Mastic	Grey, Parapet Cap Seam	1
V	Mastic	Grey, Ladder Mount	1
W	Mastic	Black, Gutter	1
X	Roof Shingle/Roof Paper	Brown/Black	1
BB	Stucco	Sand Finish, Ceiling, Overhang	1
CC	Caulking	Tan, Column and Wall	1

**BOWDITCH MIDDLE SCHOOL
BUILDING G
ASBESTOS SAMPLING INVENTORY**

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
QQ	Mastic	Grey, Flashing Seam	1
RR	Caulking	White, Door Frame	1
SS	Mastic	Beige, Pony Wall Seam	2
TT	Cement	Tan, Panel Wall	2
UU	Not Used	Not Used	NA
VV	Mastic	Dark Brown, Acoustic Ceiling Tile (F)	2
WW	Vinyl Wall/Mastic	White/Beige	2
XX	Flooring	Tan, Terrazzo	1
YY	Mortar/Grout	Brown/Brown, Ceramic Tile	1
ZZ	Insulation	White, Fire Door Ceiling Hatch	1







Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)

NVLAP Lab Code: 101459-0

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B331308
Date Received: 04/04/22
Date Analyzed: 04/07/22
Date Printed: 04/07/22
First Reported: 04/07/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS-Bldg. G

SGSFL Job ID: L1161
Total Samples Submitted: 15
Total Samples Analyzed: 15

Date(s) Collected: 04/01/2022

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
G-A-01	12549397						
Layer: White Drywall			ND				
Layer: White Joint Compound		Chrysotile	2 %				
Layer: Drywall Tape			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						
G-A-02	12549398						
Layer: White Drywall			ND				
Layer: White Joint Compound		Chrysotile	2 %				
Layer: Drywall Tape			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						
G-B-01	12549399						
Layer: White Non-Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
G-B-02	12549400						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
G-B-03	12549401						
Layer: White Non-Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
G-D-01	12549402						
Layer: Blue Non-Fibrous Material			ND				
Layer: White Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							

Client Name: Vista Environmental Consultants**Report Number:** B331308**Date Printed:** 04/07/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
G-F-01	12549403						
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (95 %)							
G-G-01	12549404						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (35 %) Fibrous Glass (45 %)							
G-I-01	12549405						
Layer: White Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
G-J-01	12549406						
Layer: White Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Fibrous Glass (99 %)							
G-M-01	12549407						
Layer: Black Semi-Fibrous Material		Chrysotile	5 %				
Total Composite Values of Non-Asbestos Fibrous Components:							
G-M-02	12549408						
Layer: Black Non-Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
G-N-01	12549409						
Layer: Grey Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
G-O-01	12549410						
Layer: Black Tar			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace) Fibrous Glass (Trace) Synthetic (Trace)							
G-O-02	12549411						
Layer: Black Tar			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace) Fibrous Glass (5 %) Synthetic (Trace)							

Client Name: Vista Environmental Consultants

Report Number: B331308

Date Printed: 04/07/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
-----------	------------	------------------	---------------------	------------------	---------------------	------------------	---------------------



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



Bulk Asbestos Point Count Analysis

(NESHAP Final Rule, 40 CFR, Part 61)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: N014622
Date Received: 04/20/22
Date Analyzed: 04/20/22
Date Printed: 04/20/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS-Bldg. G

SGSFL Job ID: L1161

PLM Report Number: B331308

Total Samples Submitted: 2

Total Samples Analyzed: 2

Sample Preparation and Analysis:

The NESHAP Final Rule does not define the preparation method for multi-layered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

Sample ID	Lab Number	Layer Description
G-A-01	12549397	Composite of ALL Layers White Drywall White Joint Compound Drywall Tape White Joint Compound Paint

Point Count Results:

Number of asbestos points counted: 0

Number of non-empty points: 400

Layer percentage of entire sample: 100

Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.

G-A-02	12549398	Composite of ALL Layers White Drywall White Joint Compound Drywall Tape Paint
---------------	----------	--

Point Count Results:

Number of asbestos points counted: 0

Number of non-empty points: 400

Layer percentage of entire sample: 100

Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.



Bulk Asbestos Point Count Analysis

(NESHAP Final Rule, 40 CFR, Part 61)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: N014622
Date Received: 04/20/22
Date Analyzed: 04/20/22
Date Printed: 04/20/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS-Bldg. G

SGSFL Job ID: L1161

PLM Report Number: B331308

Total Samples Submitted: 2

Total Samples Analyzed: 2

Sample Preparation and Analysis:

The NESHAP Final Rule does not define the preparation method for multi-layered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

Sample ID	Lab Number	Layer Description
-----------	------------	-------------------

Note: Point count results are reported to the nearest percent per EPA method.

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ) = 1%. Trace denotes the presence of asbestos below the LOQ. ND = None Detected.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 04-01-2022

LOCATION: Bowditch MS Bldg. G

PROJECT NUMBER: 221167001

SAMPLED BY: HOLESAR-JONES

CAC OR SST No: 13-5543
96.913

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
G	A	01	WBTC	WALL SMOOTH	RU 19	
	↓	02	↓	CEILING SMOOTH	RU 17	
	B	01	SAAC	POPCORN	RU 17	
	↓	02	↓	↓	RU 19	
	↓	03	↓	↓	RU 17	
	D	01	B/C	4" GREY W/TAN MASTIC	RU 17	
	F	01	C/T	12" FISSURED	CENTER RU	
	G	01	C/P	2' X 4' FISSURED	RU 19	
	I	01	VFT	12" WHITE W/TAN MASTIC	RU 19	
	J	01	DUCT INSULATION	WHITE FIBERGLASS	RU 19	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. [Signature]
TRANSFER SIGNATURE

2. [Signature]
TRANSFER SIGNATURE

3. _____
TRANSFER SIGNATURE

HOLESAR 04-01-2022
PRINTED NAME DATE/TIME

D/O APR 04 2022 8AM
PRINTED NAME DATE/TIME

BY: _____
PRINTED NAME DATE/TIME

PAGE 1 OF 2



VISTA ENVIRONMENTAL
CONSULTING

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 04-01-2022

LOCATION: Bowditch MS Bldg. G

PROJECT NUMBER: 221167001

SAMPLED BY: KOLESKAR - JONES

CAC OR SST No: 15-5543
961913

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
<u>G</u>	<u>M</u>	<u>01</u>	<u>CEMENT CHEMICAL TABLE</u>	<u>BLACK</u>	<u>RM 19</u>	
	<u>↓</u>	<u>02</u>	<u>↓</u>	<u>↓</u>	<u>RM 17</u>	
	<u>N</u>	<u>01</u>	<u>DUCT MASTIC</u>	<u>GREY W/TAPE</u>	<u>PLENUM</u>	
	<u>O</u>	<u>01</u>	<u>ROOFING DEBRIS</u>	<u>BLACK</u>	<u>BLACK-GREY</u>	
	<u>↓</u>	<u>02</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. [Signature]
TRANSFER SIGNATURE

KOLESKAR 04-01-2022
PRINTED NAME DATE/TIME

2. [Signature]
TRANSFER SIGNATURE

D/O APR 04 2022 jam
PRINTED NAME DATE/TIME

3. _____
TRANSFER SIGNATURE

PRINTED NAME DATE/TIME

PAGE 2 OF 2



Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)

NVLAP Lab Code: 101459-0

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B331529
Date Received: 04/08/22
Date Analyzed: 04/14/22
Date Printed: 04/14/22
First Reported: 04/14/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS Bldg. G**SGSFL Job ID:** L1161**Date(s) Collected:** 04/05/2022**Total Samples Submitted:** 13**Total Samples Analyzed:** 13

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
G-T-01	12551880						
Layer: Grey Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
G-U-01	12551881						
Layer: Grey Mastic			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
G-V-01	12551882						
Layer: White Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
G-W-01	12551883						
Layer: Black Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
G-X-01	12551884						
Layer: Grey Roof Shingle			ND				
Layer: Grey Roof Shingle			ND				
Layer: Black Felt			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (15 %)		Fibrous Glass (15 %)					
G-BB-01	12551885						
Layer: Grey Cementitious Material			ND				
Layer: White Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							

Client Name: Vista Environmental Consultants

Report Number: B331529

Date Printed: 04/14/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
G-CC-01	12551886						
Layer: Brown Non-Fibrous Material			ND				
Layer: Paint			ND				
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
G-QQ-01	12551887						
Layer: Grey Mastic			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
G-RR-01	12551888						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
G-SS-01	12551889						
Layer: White Mastic			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
G-SS-02	12551890						
Layer: White Mastic			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
G-TT-01	12551891						
Layer: Tan Semi-Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (20 %)							
G-TT-02	12551892						
Layer: Tan Semi-Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (20 %)							

Client Name: Vista Environmental Consultants

Report Number: B331529

Date Printed: 04/14/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
-----------	------------	------------------	---------------------	------------------	---------------------	------------------	---------------------



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 04-05-2022

LOCATION: Bowditch MS Bldg. G

PROJECT NUMBER: 221167001

SAMPLED BY: KOLESAR-ANDERSON

CAC OR SST No: 15-3543

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
G	T	01	PENETRATION MASTIC	GREY	ROOF	
	U	01	PARAPET CAP SEAM MASTIC	GREY	ROOF	
	V	01	LADDER MOUNT MASTIC	GREY	ROOF	
	W	01	GUTTER MASTIC	BLACK	ROOF	
	X	01	ROOF SHINGLES	BROWN W/BLK PAPER	ROOF	
	BB	01	STUCCO	CEILING SAND FINISH	AT RM 19	
	CC	01	CROWN-WALL CHALKING	TAN	AT RM 18	
	QQ	01	FLASHING MASTIC	GREY	AT RM 18	
	RR	01	DOOR FRAME CHALKING	WHITE	AT RM 18	
	SS	01	PONYWALL SEM MASTIC	BEIGE	ROOF AT POD G & F	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. [Signature]
TRANSFER SIGNATURE

KOLESAR
PRINTED NAME

04-05-2022
DATE/TIME

2. _____
TRANSFER SIGNATURE

PRINTED NAME

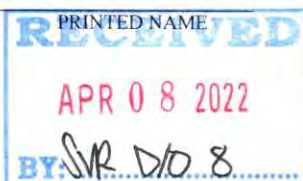
DATE/TIME

3. _____
TRANSFER SIGNATURE

PRINTED NAME

DATE/TIME

PAGE 1 OF 2





VISTA ENVIRONMENTAL
CONSULTING

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 04-05-2022

LOCATION: Bowditch MS Bldg.

PROJECT NUMBER: 221167001

SAMPLED BY: KOLEGAR-ANDERSON

CAC OR SST No: 15-5543

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
G	SS	02	PONY WALL SEAM MASTIC	BEIGE	ROOF AT POD G 3 F	
↓	TT	01	CEMENT WALL PAVEL	TAU	ROOF AT POD G 3 F	
↓	↓	02	↓	↓	↓	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS: _____

CHAIN OF CUSTODY:

1. R. H. J. KOLEGAR 04-05-2022
TRANSFER SIGNATURE PRINTED NAME DATE/TIME

2. _____
TRANSFER SIGNATURE PRINTED NAME DATE/TIME

3. _____
TRANSFER SIGNATURE PRINTED NAME DATE/TIME

PAGE 2 OF 2



Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)
NVLAP Lab Code: 101459-0

Vista Environmental Consultants
Chris Burns
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B380924
Date Received: 02/12/26
Date Analyzed: 02/16/26
Date Printed: 02/16/26
First Reported: 02/16/26

Job ID/Site: 261167001; SMFCUSD, BOWDITCH MS Building #G

SGSFL Job ID: L1161
Total Samples Submitted: 7
Total Samples Analyzed: 7

Date(s) Collected: 02/12/2026

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
G-VV01	12847200						
Layer: Brown Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (10 %)							
G-VV02	12847201						
Layer: Brown Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (10 %)							
G-WW01	12847202						
Layer: Off-White Woven Material			ND				
Layer: Beige Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Synthetic (20 %)							
G-WW02	12847203						
Layer: Off-White Woven Material			ND				
Layer: Beige Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Synthetic (20 %)							
G-XX01	12847204						
Layer: Tan Sheet Flooring			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
G-YY01	12847205						
Layer: Brown Grout			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
G-ZZ01	12847206						
Layer: White Non-Fibrous Material		Chrysotile	2 %	Amosite	2 %		
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							

Client Name: Vista Environmental Consultants

Report Number: B380924

Date Printed: 02/16/26

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
-----------	------------	------------------	---------------------	------------------	---------------------	------------------	---------------------

Maria E. Casper

Maria Casper, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Inhomogeneous samples are separated into homogenous subsamples and analyzed individually. Analytical results and reports are generated by SGS at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGS to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGS. The client is solely responsible for the use and interpretation of test results and reports requested from SGS. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. SGS is not able to assess the degree of hazard resulting from materials analyzed. SGS reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



VISTA ENVIRONMENTAL
CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 2/12/26

LOCATION: BOWDITCH MS

PROJECT NUMBER: 261167001

SAMPLED BY: JR

CAC OR SST No: 02-3244

(BUILDING # G)

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
G	VV	01	Mastic	Dark Brown, ACT		
G	VV	02	↓	↓		
G	WW	01	Vinyl wall/ MAS	white/Buge		
G	WW	02	↓	↓		
G	XX	01	Flooring	TAN, TERRAZO		
G	YY	01	Mortar/ Grout	Brown/Brown ceramic wall		
G	ZZ	01	Insulation	white	Fireplace Hatch	4 SF
7 Samples						

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48HR 3 DAY

DATA SENT TO: Christopher Burns Via E-Mail: chrisburns@vista-env.com ; nocaladmin@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS: _____

CHAIN OF CUSTODY:

1. Luis J. Rocha
TRANSFER SIGNATURE

LUIS J. ROCHA
PRINTED NAME

02/12/26 - 1100
DATE/TIME

2. Received: H
TRANSFER SIGNATURE

Holly Chen
PRINTED NAME

2/12/26 1130 D10
DATE/TIME

3. _____
TRANSFER SIGNATURE

PRINTED NAME

DATE/TIME

PAGE 1 OF 1

**Bowditch Middle School
Building G
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
246			Calibrate				Positive	1.2	mg/cm ²
247			Calibrate				Positive	1.2	mg/cm ²
248			Calibrate				Positive	1.2	mg/cm ²
249	Bldg. G	Inside	Lower Wall	Drywall	Beige	Intact	Negative	0	mg/cm ²
250	Bldg. G	Inside	Lower Wall	Drywall	Beige	Intact	Negative	0	mg/cm ²
251	Bldg. G	Inside	Counter	Wood	Dk-Blue	Intact	Negative	0	mg/cm ²
252	Bldg. G	Inside	Door	Wood	Dk-Blue	Intact	Negative	0	mg/cm ²
253	Bldg. G	Inside	Door	Metal	White	Intact	Negative	0.1	mg/cm ²
254	Bldg. G	Inside	Door	Metal	White	Intact	Negative	0.1	mg/cm ²
255	Bldg. G	Inside	Door	Wood	Dk-Blue	Intact	Negative	0	mg/cm ²
256	Bldg. G	Inside	Counter	Other	Blue	Intact	Negative	0	mg/cm ²
257	Bldg. G	Inside	Counter	Other	Blue	Intact	Negative	0.1	mg/cm ²
258	Bldg. G	Inside	Counter	Other	Black	Intact	Negative	0	mg/cm ²
259	Bldg. G	Inside	Counter	Other	Black	Intact	Negative	0.1	mg/cm ²
260	Bldg. G	Inside	Shelf	Other	Blue	Intact	Negative	0.1	mg/cm ²
261	Bldg. G	Inside	Shelf	Other	Blue	Intact	Negative	0.2	mg/cm ²
262	Bldg. G	Inside	Other	Other	White	Intact	Negative	0.1	mg/cm ²
263	Bldg. G	Inside	Other	Other	White	Intact	Negative	0.2	mg/cm ²
264	Bldg. G	Inside	Ceiling	Other	White	Intact	Negative	0	mg/cm ²
265	Bldg. G	Inside	Ceiling	Other	White	Intact	Negative	0	mg/cm ²
266	Bldg. G	Inside	Support Column	Wood	White	Intact	Negative	0	mg/cm ²
267	Bldg. G	Inside	Counter	Wood	Black	Intact	Negative	0	mg/cm ²
268	Bldg. G	Inside	Counter	Wood	Black	Intact	Negative	0	mg/cm ²
269	Bldg. G	Inside	Support Column	Wood	White	Intact	Negative	0	mg/cm ²
270	Bldg. G	Inside	Cabinet	Metal	Dk-Blue	Intact	Negative	0.7	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building G
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
271	Bldg. G	Inside	Cabinet	Metal	Dk-Blue	Intact	Negative	0.9	mg/cm ²
272	Bldg. G	Inside	Cabinet	Metal	White	Intact	Negative	0	mg/cm ²
273	Bldg. G	Inside	Cabinet	Wood	Brown	Intact	Negative	0	mg/cm ²
274	Bldg. G	Inside	Column	Concrete	White	Intact	Negative	0	mg/cm ²
275	Bldg. G	Inside	Cabinet	Metal	White	Intact	Negative	0.1	mg/cm ²
276	Bldg. G	Inside	Cabinet	Wood	Brown	Intact	Negative	0	mg/cm ²
277	Bldg. G	Inside	Column	Concrete	White	Intact	Negative	0	mg/cm ²
278	Bldg. G	Inside	Cabinet	Metal	Green	Intact	Negative	0.1	mg/cm ²
279	Bldg. G	Inside	HVAC	Metal	White	Intact	Negative	0.1	mg/cm ²
280	Bldg. G	Inside	HVAC	Metal	White	Intact	Negative	0.1	mg/cm ²
281	Bldg. G	Inside	Other	Metal	White	Intact	Negative	0.5	mg/cm ²
282	Bldg. G	Inside	Other	Metal	White	Intact	Negative	0.4	mg/cm ²
291			Calibrate				Positive	1.2	mg/cm ²
292			Calibrate				Positive	1.2	mg/cm ²
293			Calibrate				Positive	1.1	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building G
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
1			SHUTTER_CAL					1.28	cps
2			CALIBRATE				Positive	1.1	mg/cm ²
3			CALIBRATE				Positive	1.1	mg/cm ²
4			CALIBRATE				Positive	1.2	mg/cm ²
63	G	ROOF	FLASHING	METAL	TAN	INTACT	Negative	0	mg/cm ²
64	G	ROOF	FLASHING	METAL	BLUE	INTACT	Negative	0	mg/cm ²
65	G	ROOF	HVAC	METAL	TAN	INTACT	Negative	0	mg/cm ²
66	G	ROOF	FLOOR	RUBBER	WHITE	INTACT	Negative	0	mg/cm ²
67	G	ROOF	ROOF	OTHER	MULTI	INTACT	Negative	0	mg/cm ²
88			CALIBRATE				Positive	1	mg/cm ²
89			CALIBRATE				Positive	1	mg/cm ²
90			CALIBRATE				Positive	1.1	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building G
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
332			CALIBRATE				Positive	1.2	mg/cm ²
334			CALIBRATE				Positive	1.2	mg/cm ²
336			CALIBRATE				Positive	1.2	mg/cm ²
332			CALIBRATE				Positive	1.2	mg/cm ²
334			CALIBRATE				Positive	1.2	mg/cm ²
336			CALIBRATE				Positive	1.2	mg/cm ²
345	BLDG G	EXTERIOR	PIPE	METAL	TAN	INTACT	Negative	0.2	mg/cm ²
346	BLDG G	EXTERIOR	WALL	WOOD	TAN	INTACT	Negative	0	mg/cm ²
347	BLDG G	EXTERIOR	FASCIA	WOOD	TAN	INTACT	Negative	0	mg/cm ²
348	BLDG G	EXTERIOR	FASCIA	WOOD	BLUE	INTACT	Negative	0	mg/cm ²
349	BLDG G	EXTERIOR	FASCIA	METAL	BLUE	INTACT	Negative	0	mg/cm ²
351	BLDG G	EXTERIOR	SIGN	METAL	WHITE	INTACT	Negative	0.01	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

BOWDITCH MIDDLE SCHOOL BUILDING H



The information contained in these appendices are not stand-alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAD & Cal-OSHA classifications are based on the materials being

BOWDITCH MIDDLE SCHOOL BUILDING H HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/White	Interior - Walls and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	25,800 SF
C	Wallboard/Joint Compound	White/White	Interior - w/Vinyl Wall Covering	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
P	Thermal System Insulation	Hard Pack, Elbows	Interior	Class I	Friable (RACM when Removed)	15 SF
R	Wallboard/Joint Compound	White/White, Unfinished (Damaged)	Interior - Plenum	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
UU	Insulation	White, Fire Door Ceiling Hatch	Interior – Break Room	Unclassified	Friable (RACM when Removed)	4 SF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
Inside	Cabinet	Other	Brown	Intact	0.3	mg/cm ²
Inside	Shelf	Metal	Green	Intact	0.8	mg/cm ²
Inside	Shelf	Metal	Red	Intact	0.8	mg/cm ²
Inside	Cabinet	Metal	White	Intact	0.1	mg/cm ²
Inside	Cabinet	Metal	Red	Intact	0.1	mg/cm ²
Custodian	Wall	Drywall	White	Intact	0.11	mg/cm ²
Custodian	Door Frame	Wood	White	Intact	0.1	mg/cm ²

BOWDITCH MIDDLE SCHOOL BUILDING H HAZARDOUS MATERIALS SUMMARY

Room	Component	Substrate	Color	Condition	Pb	Units
Custodian	Door	Wood	Blue, Dark	Intact	0.21	mg/cm ²
Custodian	Sink	Porcelain	White	Intact	15.7	mg/cm²
Custodian	Pipe	Metal	Brown	Intact	0.08	mg/cm ²
Custodian	Pipe	Metal	White	Intact	0.14	mg/cm ²
Custodian	Hvac	Metal	White	Intact	0.01	mg/cm ²
Rm 24	Ceiling	Fissured	White	Intact	0.01	mg/cm ²
Rm 24	Floor Outlet	Metal	Varnish	Intact	9.6	mg/cm²
Corridor	Wall Panel	Laminate	Beige	Intact	0.01	mg/cm ²
Corridor	Beam	Wood	White	Intact	0.01	mg/cm ²
Rm 20	Cabinet	Metal	Blue, Dark	Intact	0.6	mg/cm ²
Storage	Pipe	Metal	White	Intact	0.23	mg/cm ²
Storage	Parking Stripe	Metal	White	Intact	0.14	mg/cm ²
Preparation	Shelf	Metal	Blue	Intact	0.13	mg/cm ²
Preparation	Shelf	Metal	Red	Intact	0.6	mg/cm ²
Preparation	Shelf	Metal	Green	Intact	0.4	mg/cm ²
Preparation	Cabinet	Vinyl	Brown	Intact	0.26	mg/cm ²
Preparation	Cabinet	Vinyl	Brown	Intact	0.3	mg/cm ²
Rm 21	Floor Outlet	Metal	Varnish	Intact	6.9	mg/cm²
Exterior	Light Case	Metal	White	Intact	0.01	mg/cm ²

Bold = Lead Based

Devices with Potential Hazardous Materials

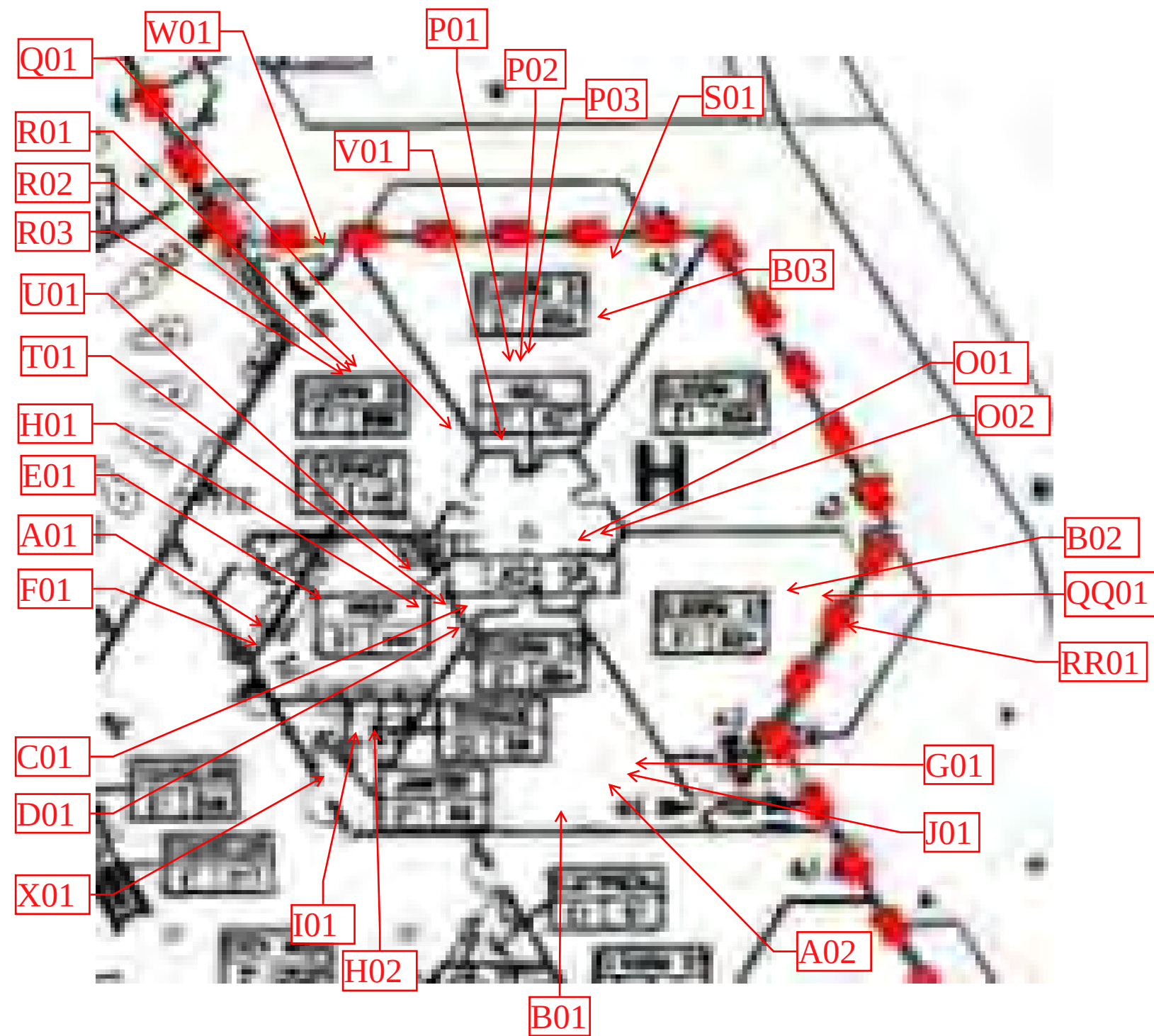
MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	244
Compact Fluorescent	Universal Waste	2
Metal Halide/Sodium	Universal Waste	3
Batteries: Emergency Lights & Exit Signs	Universal Waste	6
Light Fixture Ballasts	Polychlorinated Biphenyls or E-Waste	88
Smoke Detectors	Low-Level Radiation	12

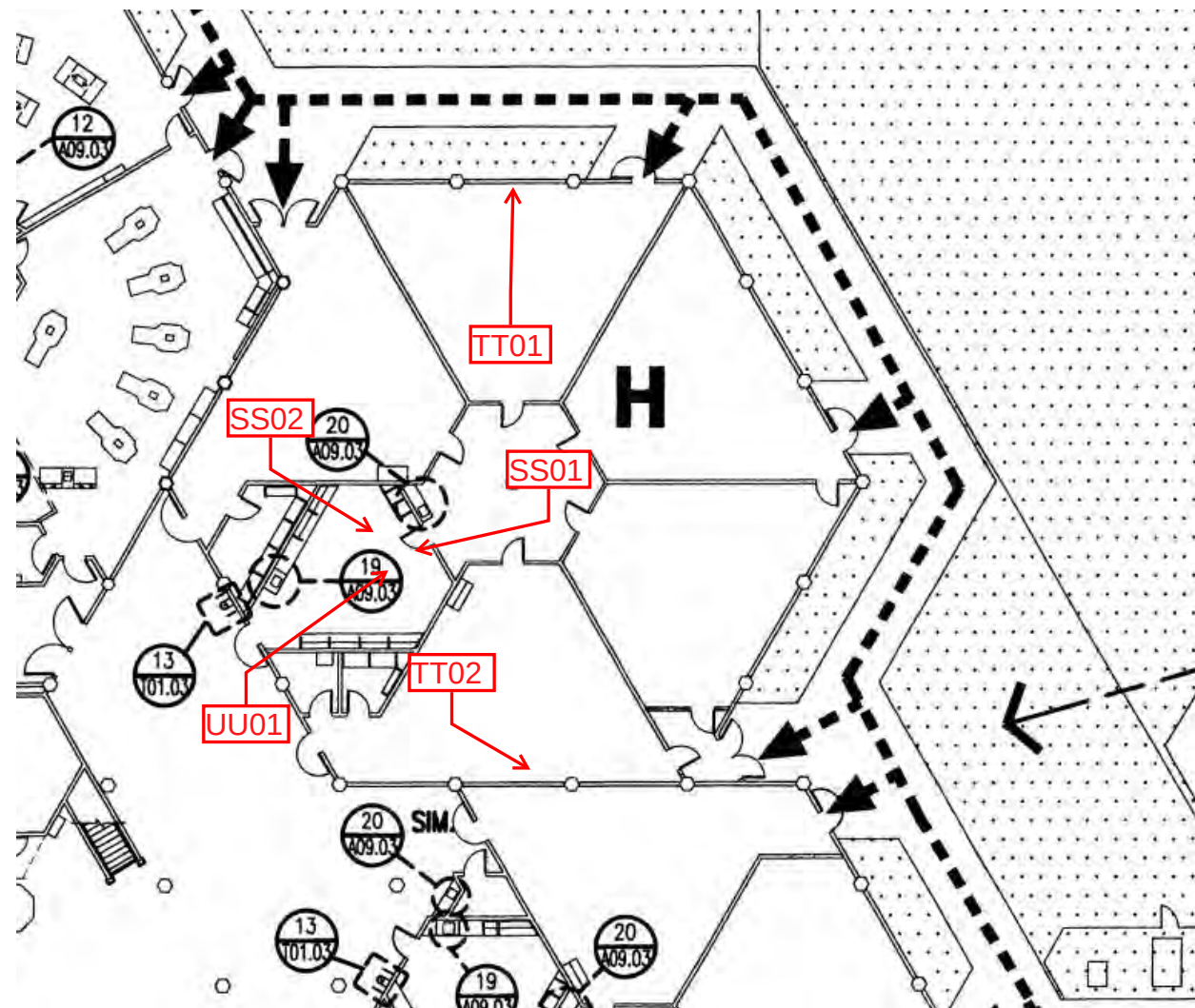
**BOWDITCH MIDDLE SCHOOL
BUILDING H
ASBESTOS SAMPLING INVENTORY**

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Wallboard/Joint Compound	White/White	2
B	Spray Applied Acoustic Ceiling	Popcorn	3
C	Wallboard/Joint Compound	White/White	1
D	Basecove/Mastic	4" Grey/Beige	1
E	Sink Undercoating Mastic	Grey	1
F	Ceiling Tile	12" Fissured	1
G	Ceiling Panel	2' x 4' Fissured	1
H	Mastic	Tan, Carpet	1
I	Vinyl Floor Tile/Mastic	12" White/Tan	1
J	Duct Insulation	White, Fiberglass, Foil Backing	1
O	Roofing Debris	Black-Grey	2
P	Thermal System Insulation	Hard Pack, Elbows	3
Q	Thermal System Insulation/Mastic	Pipe, Fiberglass, Tan/Black	1
R	Wallboard/Joint Compound	White/White, Unfinished (Damaged)	3
S	Duct Mastic	Tan	1
T	Mastic	Grey, Penetrations	1
U	Mastic	Grey, Parapet Cap Seams	1
V	Mastic	Grey, Ladder Mount	1
W	Mastic	Black, Gutter	1
X	Roof Shingle, Paper	Brown/Black	1
Y	Not Used	Not Used	NA
QQ	Mastic	Grey, Flashing Seam	1

**BOWDITCH MIDDLE SCHOOL
BUILDING H
ASBESTOS SAMPLING INVENTORY**

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
RR	Caulking	White, Door Frame	1
SS	Mastic	Dark Brown, Acoustic Ceiling Tile (F)	2
TT	Vinyl Wall/Mastic	White/Beige	2
UU	Insulation	White, Fire Door Ceiling Hatch	1







Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)

NVLAP Lab Code: 101459-0

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B331309
Date Received: 04/04/22
Date Analyzed: 04/07/22
Date Printed: 04/07/22
First Reported: 04/07/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS-Bldg. H

SGSFL Job ID: L1161
Total Samples Submitted: 23
Total Samples Analyzed: 22

Date(s) Collected: 03/31/2022

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
H-A-01	12549412						
Layer: White Drywall			ND				
Layer: White Joint Compound		Chrysotile	2 %				
Layer: Drywall Tape			ND				
Layer: White Joint Compound		Chrysotile	2 %				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %) Fibrous Glass (10 %)							
H-A-02	12549413						
Layer: White Drywall			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %) Fibrous Glass (5 %)							
H-B-01	12549414						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
H-B-02	12549415						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
H-B-03	12549416						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
H-C-01	12549417						
Layer: White Semi-Fibrous Material			ND				
Layer: White Skimcoat/Joint Compound		Chrysotile	2 %				
Total Composite Values of Non-Asbestos Fibrous Components:							
Synthetic (15 %)							

Client Name: Vista Environmental Consultants**Report Number:** B331309**Date Printed:** 04/07/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
H-D-01	12549418						
Layer: Blue Non-Fibrous Material			ND				
Layer: Beige Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
H-E-01	12549419						
Layer: Grey Semi-Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (10 %)							
H-F-01	12549420						
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (95 %)							
H-G-01	12549421						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (35 %) Fibrous Glass (45 %)							
H-H-01	12549422						
Layer: Tan Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace) Fibrous Glass (Trace)							
H-I-01	12549423						
Layer: White Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
H-J-01	12549424						
Layer: White Fibrous Material			ND				
Layer: Foil			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Fibrous Glass (95 %)							
H-O-01	12549425						
Layer: Black Semi-Fibrous Tar			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Fibrous Glass (15 %)							
H-O-02	12549426						
Layer: Black Semi-Fibrous Tar			ND				
Layer: Tan Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (40 %) Fibrous Glass (5 %)							

Client Name: Vista Environmental Consultants**Report Number:** B331309**Date Printed:** 04/07/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
H-P-01	12549427						
Layer: Grey Semi-Fibrous Material		Chrysotile	5 %				
Layer: White Woven Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Fibrous Glass (20 %)							
H-P-02	12549428						
Layer: Grey Semi-Fibrous Material		Chrysotile	5 %				
Total Composite Values of Non-Asbestos Fibrous Components: Fibrous Glass (20 %)							
H-P-03	12549429						
Layer: Grey Semi-Fibrous Material		Chrysotile	5 %				
Total Composite Values of Non-Asbestos Fibrous Components: Fibrous Glass (20 %)							
H-Q-01	12549430						
Layer: Black Tar			ND				
Layer: Yellow Fibrous Material			ND				
Layer: Tan Fibrous Material			ND				
Layer: Foil			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (10 %) Fibrous Glass (75 %)							
H-R-01	12549431						
Layer: White Drywall			ND				
Layer: White Joint Compound		Chrysotile	Trace				
Layer: Drywall Tape			ND				
Layer: White Joint Compound		Chrysotile	Trace				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (20 %) Fibrous Glass (10 %)							
H-R-02	12549432						
Layer: White Drywall			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (20 %) Fibrous Glass (10 %)							
H-S-01	12549434						
Layer: Yellow Fibrous Material			ND				
Layer: Foil			ND				
Layer: Paint			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Fibrous Glass (80 %)							

Client Name: Vista Environmental Consultants

Report Number: B331309

Date Printed: 04/07/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
-----------	------------	------------------	---------------------	------------------	---------------------	------------------	---------------------



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



Bulk Asbestos Point Count Analysis

(NESHAP Final Rule, 40 CFR, Part 61)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: N014623
Date Received: 04/20/22
Date Analyzed: 04/20/22
Date Printed: 04/20/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS-Bldg. H

SGSFL Job ID: L1161

PLM Report Number: B331309

Total Samples Submitted: 3

Total Samples Analyzed: 3

Sample Preparation and Analysis:

The NESHAP Final Rule does not define the preparation method for multi-layered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

Sample ID	Lab Number	Layer Description
H-A-01	12549412	Composite of ALL Layers White Drywall White Joint Compound Drywall Tape White Joint Compound Paint

Point Count Results:

Number of asbestos points counted: 0
Number of non-empty points: 400
Layer percentage of entire sample: 100
Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.

H-C-01	12549417	White Skimcoat/Joint Compound
---------------	----------	--------------------------------------

Point Count Results:

Number of asbestos points counted: 2
Number of non-empty points: 400
Layer percentage of entire sample: 20
Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment:

Bulk Asbestos Point Count Analysis

(NESHAP Final Rule, 40 CFR, Part 61)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: N014623
Date Received: 04/20/22
Date Analyzed: 04/20/22
Date Printed: 04/20/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS-Bldg. H

SGSFL Job ID: L1161

PLM Report Number: B331309

Total Samples Submitted: 3

Total Samples Analyzed: 3

Sample Preparation and Analysis:

The NESHAP Final Rule does not define the preparation method for multi-layered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

Sample ID	Lab Number	Layer Description
H-R-01	12549431	Composite of ALL Layers White Drywall White Joint Compound Drywall Tape White Joint Compound Paint

Point Count Results:

Number of asbestos points counted: 0
 Number of non-empty points: 400
 Layer percentage of entire sample: 100
Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.

Note: Point count results are reported to the nearest percent per EPA method.



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ) = 1%. Trace denotes the presence of asbestos below the LOQ. ND = None Detected.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 03-31-2022

LOCATION: Bowditch MS Bldg. H

PROJECT NUMBER: 221167001

SAMPLED BY: KOLESAK-JONES

CAC OR SST No: 15-5543
96-1913

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
H	A	01	WBTC	WALL SMOOTH	WORK RM	
	↓	02	↓	CEILING SMOOTH	RM 24	
	B	01	SAAC	PORCEN	RM 24	
	↓	02	↓	↓	RM 23	
	↓	03	↓	↓	RM 21	
	C	01	DEGWALL	W/VINYL WALL COVERING	CENTER RM	
	D	01	B/C	4" GREY W/BECKELASTIC	CENTER RM	
	E	01	SUCH	GREY	WORK RM	
	F	01	C/T	12" FISSURED	WORK RM	
	G	01	C/P	2'x4' FISSURED	RM 24	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Belknap
TRANSFER SIGNATURE
2. Cym
TRANSFER SIGNATURE
3. _____
TRANSFER SIGNATURE

PAGE 1 OF 3

KOLESAK 03-31-2022
PRINTED NAME DATE/TIME
RECEIVED
D/O APR 04 2022 8am
PRINTED NAME DATE/TIME
BY: _____
PRINTED NAME DATE/TIME



2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 03-31-2022

LOCATION: Bowditch MS Bldg. H

PROJECT NUMBER: 221167001

SAMPLED BY: KOLESAK-JONES

CAC OR SST No: 15-5543
96-1913

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
H	H	01	CARPET MASTIC	TAL	WORK RM	
↓	I	01	VFT	12" WHITE W/TAN MASTIC	STORAGE	
↓	J	01	DUCT INSULATION	FOIL BACKING W/WHIT FIBERGLASS	RM 24	
↓	O	01	ROOFING DEBRIS	BACK/GREY	PLENUM	
↓	↓	02	↓	↓	↓	
↓	P	01	TSI ELBOW	HARD PICK W/WHIT GREY	PLENUM	
↓	↓	02	↓	↓	↓	
↓	↓	03	↓	↓	↓	
↓	Q	01	TSI FIBERGLASS	PIPE W/BLK MASTIC	PLENUM	
↓	R	01	WBTC	UNFINISH	PLENUM	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. P. H. Jones
TRANSFER SIGNATURE
2. C. Jones
TRANSFER SIGNATURE
3. _____
TRANSFER SIGNATURE

PAGE 2 OF 3

KOLESAK 03-31-2022
PRINTED NAME DATE/TIME
RECEIVED
D/O APR 04 2022 Sam
PRINTED NAME DATE/TIME
BY: _____



VISTA ENVIRONMENTAL
CONSULTING

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 03-31-2022

LOCATION: Bowditch MS Bldg. H

PROJECT NUMBER: 221167001

SAMPLED BY: KOLESAR-JONES

CAC OR SST No: 15-5543
96-1913

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
H	R	02	WBJC	UNFINISH	PLENUM	
↓	↓	03	↓	↓	↓	
↓	S	01	DOCT MASTK	TAL	PLENUM	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. R. H. L.
TRANSFER SIGNATURE

2. CJM
TRANSFER SIGNATURE

3. _____
TRANSFER SIGNATURE

KOLESAR 03-31-2022
PRINTED NAME DATE/TIME

D/O APR 04 2022 jam
PRINTED NAME DATE/TIME

BY: _____

PRINTED NAME DATE/TIME

PAGE 3 OF 3



Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)

NVLAP Lab Code: 101459-0

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B331528
Date Received: 04/08/22
Date Analyzed: 04/12/22
Date Printed: 04/13/22
First Reported: 04/13/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS Bldg**SGSFL Job ID:** L1161**Date(s) Collected:** 04/05/2022**Total Samples Submitted:** 7**Total Samples Analyzed:** 7

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
H-T-01	12551873						
Layer: Grey Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
H-U-01	12551874						
Layer: Grey Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
H-V-01	12551875						
Layer: Grey Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
H-W-01	12551876						
Layer: Black Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
H-X-01	12551877						
Layer: Brown Roof Shingle			ND				
Layer: Brown Roof Shingle			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Fibrous Glass (10 %)							
H-RR-01	12551878						
Layer: White Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
H-QQ-01	12551879						
Layer: Grey Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							

Client Name: Vista Environmental Consultants

Report Number: B331528

Date Printed: 04/13/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
-----------	------------	------------------	---------------------	------------------	---------------------	------------------	---------------------



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 04-05-2022

LOCATION: Bowditch MS Bldg.

PROJECT NUMBER: 221167001

SAMPLED BY: KOLEGAR-ANDERSON

CAC OR SST No: 15-5543

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
H	T	01	PENETRATION MASTIC	GREY	ROOF	
	U	01	PARAPET CAP SEAM MASTIC	GREY	ROOF	
	V	01	LADDER MOUNT MASTIC	GREY	ROOF	
	W	01	GUTTER MASTIC	BLACK	ROOF	
	X	01	ROOF SHINGLES	BROWN W/BLK PAPER	ROOF	
	RR	01	DOOR FRAME MASTIC	WHITE	AT RM 23	
	QQ	01	FLASHING SEAM MASTIC	GREY	AT RM 23	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office 510.346.8860 Cell 925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. [Signature]
TRANSFER SIGNATURE

KOLEGAR
PRINTED NAME

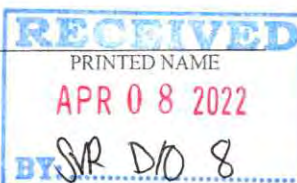
04-05-2022
DATE/TIME

2. _____
TRANSFER SIGNATURE

PRINTED NAME

DATE/TIME

3. _____
TRANSFER SIGNATURE



DATE/TIME

PAGE 1 OF 1

Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)
 NVLAP Lab Code: 101459-0

Vista Environmental Consultants
 Chris Burns
 2984 Teagarden St.
 San Leandro, CA 94577

Client ID: L1161
Report Number: B380937
Date Received: 02/12/26
Date Analyzed: 02/16/26
Date Printed: 02/16/26
First Reported: 02/16/26

Job ID/Site: 261167001; SMFCUSD, BOWDITCH MS, BUILDING #H

SGSFL Job ID: L1161
Total Samples Submitted: 5
Total Samples Analyzed: 5

Date(s) Collected: 02/12/2026

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
H-SS01	12847241						
Layer: Brown Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (10 %)							
H-SS02	12847242						
Layer: Brown Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (10 %)							
H-TT01	12847243						
Layer: Off-White Woven Material			ND				
Layer: Beige Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Synthetic (20 %)							
H-TT02	12847244						
Layer: Off-White Woven Material			ND				
Layer: Beige Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Synthetic (20 %)							
H-UU01	12847245						
Layer: White Non-Fibrous Material		Chrysotile	2 %	Amosite	2 %		
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							



Maria Casper, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Inhomogeneous samples are separated into homogenous subsamples and analyzed individually. Analytical results and reports are generated by SGS at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGS to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGS. The client is solely responsible for the use and interpretation of test results and reports requested from SGS. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. SGS is not able to assess the degree of hazard resulting from materials analyzed. SGS reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 2/12/26

LOCATION: BOWDITCH MS

PROJECT NUMBER: 261167001

SAMPLED BY: JR

(BUILDING # H)

CAC OR SST No: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
<u>H</u>	<u>SS</u>	<u>01</u>	<u>Mastic</u>	<u>DARK BROWN, ACT</u>		
<u>H</u>	<u>SS</u>	<u>02</u>	<u>↓</u>	<u>↓</u>		
<u>H</u>	<u>TT</u>	<u>01</u>	<u>Vinyl wall, mastic</u>	<u>white/beige</u>		
<u>H</u>	<u>TT</u>	<u>02</u>	<u>↓</u>	<u>↓</u>		
<u>H</u>	<u>UV</u>	<u>01</u>	<u>Insulation</u>	<u>white, Fire Door Hatch</u>		<u>4 SF</u>

58 samples

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com ; nocaladmin@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Luis J. Rocha
TRANSFER SIGNATURE

LUIS J. ROCHA
PRINTED NAME

02/12/26 - 1100
DATE/TIME

2. Received: H
TRANSFER SIGNATURE

Holly Chen
PRINTED NAME

2/12/26 @ 1130 B10
DATE/TIME

3. _____
TRANSFER SIGNATURE

PRINTED NAME

DATE/TIME

PAGE 1 OF 1

**Bowditch Middle School
Building H
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
2			SHUTTER_CAL					1.09	cps
3			CALIBRATE				Positive	1.2	mg/cm ²
4			CALIBRATE				Positive	1.2	mg/cm ²
5			CALIBRATE				Positive	1.2	mg/cm ²
39	Bldg. H	CUSTODIAN	WALL	DRYWALL	WHITE	INTACT	Negative	0.11	mg/cm ²
40	Bldg. H	CUSTODIAN	DOOR FRAME	WOOD	WHITE	INTACT	Negative	0.1	mg/cm ²
41	Bldg. H	CUSTODIAN	DOOR	WOOD	BLUE, DARK	INTACT	Negative	0.21	mg/cm ²
42	Bldg. H	CUSTODIAN	COLUMN	CONCRETE	BEIGE	INTACT	Negative	0	mg/cm ²
43	Bldg. H	CUSTODIAN	SINK	PORCELAIN	WHITE	INTACT	Positive	15.7	mg/cm ²
44	Bldg. H	CUSTODIAN	PIPE	METAL	BROWN	INTACT	Negative	0.08	mg/cm ²
45	Bldg. H	CUSTODIAN	FLOOR	CONCRETE	BLUE, DARK	INTACT	Negative	0	mg/cm ²
46	Bldg. H	CUSTODIAN	PIPE	METAL	WHITE	INTACT	Negative	0.14	mg/cm ²
47	Bldg. H	CUSTODIAN	HVAC	METAL	WHITE	INTACT	Negative	0.01	mg/cm ²
48	Bldg. H	RM 24	WALL	DRYWALL	BEIGE	INTACT	Negative	0	mg/cm ²
49	Bldg. H	RM 24	DOOR	WOOD	BLUE, DARK	INTACT	Negative	0	mg/cm ²
50	Bldg. H	RM 24	DOOR FRAME	METAL	WHITE	INTACT	Negative	0	mg/cm ²
51	Bldg. H	RM 24	Whiteboard	Other	WHITE	INTACT	Negative	0	mg/cm ²
52	Bldg. H	RM 24	COUNTER	Other	BLACK	INTACT	Negative	0	mg/cm ²
53	Bldg. H	RM 24	CABINET	Other	BLUE	INTACT	Negative	0	mg/cm ²
54	Bldg. H	RM 24	CABINET	METAL	WHITE	INTACT	Negative	0	mg/cm ²
55	Bldg. H	RM 24	COLUMN	CONCRETE	BEIGE	INTACT	Negative	0	mg/cm ²
56	Bldg. H	RM 24	CEILING	Fissured	WHITE	INTACT	Negative	0.01	mg/cm ²
57	Bldg. H	RM 24	BEAM	WOOD	BEIGE	INTACT	Negative	0	mg/cm ²
58	Bldg. H	RM 24	Floor Outlet	METAL	VARNISH	INTACT	Positive	9.6	mg/cm ²
59	Bldg. H	Corridor	CABINET	METAL	BLUE, DARK	INTACT	Negative	0	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building H
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
60	Bldg. H	Corridor	COUNTER	Laminate	BLUE	INTACT	Negative	0	mg/cm ²
61	Bldg. H	Corridor	WALL PANEL	Laminate	BEIGE	INTACT	Negative	0.01	mg/cm ²
62	Bldg. H	Corridor	COLUMN	CONCRETE	BEIGE	INTACT	Negative	0	mg/cm ²
63	Bldg. H	Corridor	SHELF	VINYL	BLUE	INTACT	Negative	0	mg/cm ²
64	Bldg. H	Corridor	BEAM	WOOD	WHITE	INTACT	Negative	0.01	mg/cm ²
65	Bldg. H	Corridor	Light Casing	WOOD	WHITE	INTACT	Negative	0	mg/cm ²
66	Bldg. H	RM 23	CABINET	METAL	WHITE	INTACT	Negative	0	mg/cm ²
67	Bldg. H	RM 23	COUNTER	Other	BLACK	INTACT	Negative	0	mg/cm ²
68	Bldg. H	RM 23	CABINET	VINYL	BLUE	INTACT	Negative	0	mg/cm ²
69	Bldg. H	RM 23	Whiteboard	Other	WHITE	INTACT	Negative	0	mg/cm ²
70	Bldg. H	RM 23	CEILING	Fissured	WHITE	INTACT	Negative	0	mg/cm ²
71	Bldg. H	RM 23	CEILING	STUCCO	WHITE	INTACT	Negative	0	mg/cm ²
72	Bldg. H	RM 20	CABINET	METAL	RED	INTACT	Negative	0	mg/cm ²
73	Bldg. H	RM 20	CABINET	METAL	BLUE, DARK	INTACT	Negative	0.6	mg/cm ²
74	Bldg. H	STORAGE	PIPE	METAL	WHITE	INTACT	Negative	0.23	mg/cm ²
75	Bldg. H	STORAGE	HVAC	METAL	WHITE	INTACT	Negative	0	mg/cm ²
76	Bldg. H	STORAGE	PARKING STRIPE	METAL	WHITE	INTACT	Negative	0.14	mg/cm ²
77	Bldg. H	Preperation	SHELF	METAL	BLUE	INTACT	Negative	0.13	mg/cm ²
78	Bldg. H	Preperation	SHELF	METAL	RED	INTACT	Negative	0.6	mg/cm ²
79	Bldg. H	Preperation	SHELF	METAL	GREEN	INTACT	Negative	0.4	mg/cm ²
80	Bldg. H	Preperation	CABINET	VINYL	BROWN	INTACT	Negative	0.26	mg/cm ²
81	Bldg. H	Preperation	CABINET	VINYL	BROWN	INTACT	Negative	0.3	mg/cm ²
82	Bldg. H	Preperation	CABINET	VINYL	ORANGE	INTACT	Negative	0	mg/cm ²
83	Bldg. H	RM 21	Floor Outlet	METAL	VARNISH	INTACT	Positive	6.9	mg/cm ²
202			CALIBRATE				Positive	1.2	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building H
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
203			CALIBRATE				Positive	1.2	mg/cm ²
332			CALIBRATE				Positive	1.2	mg/cm ²
334			CALIBRATE				Positive	1.2	mg/cm ²
336			CALIBRATE				Positive	1.2	mg/cm ²
332			CALIBRATE				Positive	1.2	mg/cm ²
334			CALIBRATE				Positive	1.2	mg/cm ²
336			CALIBRATE				Positive	1.2	mg/cm ²
337	BLDG H	Exterior	WALL	WOOD	TAN	INTACT	Negative	0	mg/cm ²
338	BLDG H	Exterior	WALL	WOOD	TAN	INTACT	Negative	0	mg/cm ²
339	BLDG H	Exterior	FASCIA	WOOD	TAN	INTACT	Negative	0	mg/cm ²
341	BLDG H	Exterior	FASCIA	WOOD	BLUE	INTACT	Negative	0	mg/cm ²
342	BLDG H	Exterior	FLASHING	METAL	BLUE	INTACT	Negative	0	mg/cm ²
343	BLDG H	Exterior	LIGHT CASE	METAL	WHITE	INTACT	Negative	0.01	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building H
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
246			Calibrate				Positive	1.2	mg/cm ²
247			Calibrate				Positive	1.2	mg/cm ²
248			Calibrate				Positive	1.2	mg/cm ²
283	Bldg H	Inside	Cabinet	Other	Orange	Intact	Negative	0	mg/cm ²
284	Bldg H	Inside	Cabinet	Other	Brown	Intact	Negative	0.3	mg/cm ²
285	Bldg H	Inside	Shelf	Metal	Blue	Intact	Negative	0	mg/cm ²
286	Bldg H	Inside	Shelf	Metal	Green	Intact	Negative	0.8	mg/cm ²
287	Bldg H	Inside	Shelf	Metal	Red	Intact	Negative	0.8	mg/cm ²
288	Bldg H	Inside	Cabinet	Other	Blue	Intact	Negative	0	mg/cm ²
289	Bldg H	Inside	Cabinet	Metal	White	Intact	Negative	0.1	mg/cm ²
290	Bldg H	Inside	Cabinet	Metal	Red	Intact	Negative	0.1	mg/cm ²
291			Calibrate				Positive	1.2	mg/cm ²
292			Calibrate				Positive	1.2	mg/cm ²
293			Calibrate				Positive	1.1	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building H
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
1			SHUTTER_CAL					1.28	cps
2			CALIBRATE				Positive	1.1	mg/cm ²
3			CALIBRATE				Positive	1.1	mg/cm ²
4			CALIBRATE				Positive	1.2	mg/cm ²
68	H	ROOF	ROOF	OTHER	MULTI	INTACT	Negative	0	mg/cm ²
69	H	ROOF	FLASHING	METAL	TAN	INTACT	Negative	0	mg/cm ²
70	H	ROOF	FLASHING	METAL	BLUE	INTACT	Negative	0	mg/cm ²
71	H	ROOF	HVAC	METAL	TAN	INTACT	Negative	0	mg/cm ²
88			CALIBRATE				Positive	1	mg/cm ²
89			CALIBRATE				Positive	1	mg/cm ²
90			CALIBRATE				Positive	1.1	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

BOWDITCH MIDDLE SCHOOL BUILDING I



The information contained in these appendices are not stand-alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAD & Cal-OSHA classifications are based on the materials being

BOWDITCH MIDDLE SCHOOL BUILDING I HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/White, Smooth	Interior - Walls and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	23,000 SF
C	Wallboard/Joint Compound	White/Beige	Interior - w/Vinyl Wall Covering	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
P	Thermal System Insulation	White-Grey, Hard Pack, Elbows	Interior - Plenum	Class I	Friable (RACM when Removed)	15 SF
R	Wallboard/Joint Compound	White/Beige, Unfinished (Damaged)	Interior - Plenum	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
S	Mastic	Tan, Duct	Interior - Plenum	Class II	Category I - Non-Friable	50 SF
VV	Insulation	White, Fire Door Ceiling Hatch	Interior – Break Room	Unclassified	Friable (RACM when Removed)	4 SF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
29	Door	Wood	Blue, Dark	Intact	0.6	mg/cm ²
29	Door Frame	Metal	White	Intact	0.09	mg/cm ²
29	Whiteboard	Other	White	Intact	0.01	mg/cm ²
29	Window Frame	Wood	White	Intact	0.18	mg/cm ²
25	Door Frame	Wood	White	Intact	0.16	mg/cm ²

BOWDITCH MIDDLE SCHOOL BUILDING I HAZARDOUS MATERIALS SUMMARY

Room	Component	Substrate	Color	Condition	Pb	Units
25	Whiteboard	Other	White	Intact	4.8	mg/cm²
25	Column	Wood	Beige	Intact	0.01	mg/cm ²
27	Door	Wood	Blue, Dark	Intact	0.4	mg/cm ²
27	Window Frame	Wood	White	Intact	0.03	mg/cm ²
Storage Closet	Pipe	Wood	White	Intact	0.04	mg/cm ²
Storage	Cabinet	Metal	Blue, Dark	Intact	0.8	mg/cm ²
Electrical	Pipe	Metal	White	Intact	1.8	mg/cm²
Electrical	Cabinet	Metal	White	Intact	0.03	mg/cm ²
Electrical	Cabinet	Metal	Gray	Intact	0.13	mg/cm ²
Electrical	Baseboard	Wood	Brown	Intact	0.02	mg/cm ²
Exterior	Pole	Metal	Tan	Intact	0.04	mg/cm ²
Exterior	Column	Concrete	Tan	Intact	0.01	mg/cm ²
Exterior	Floor	Concrete	Red	Intact	0.01	mg/cm ²
Exterior	Beam Bracket	Metal	Tan	Intact	0.21	mg/cm ²

Bold = Lead Based

Devices with Potential Hazardous Materials

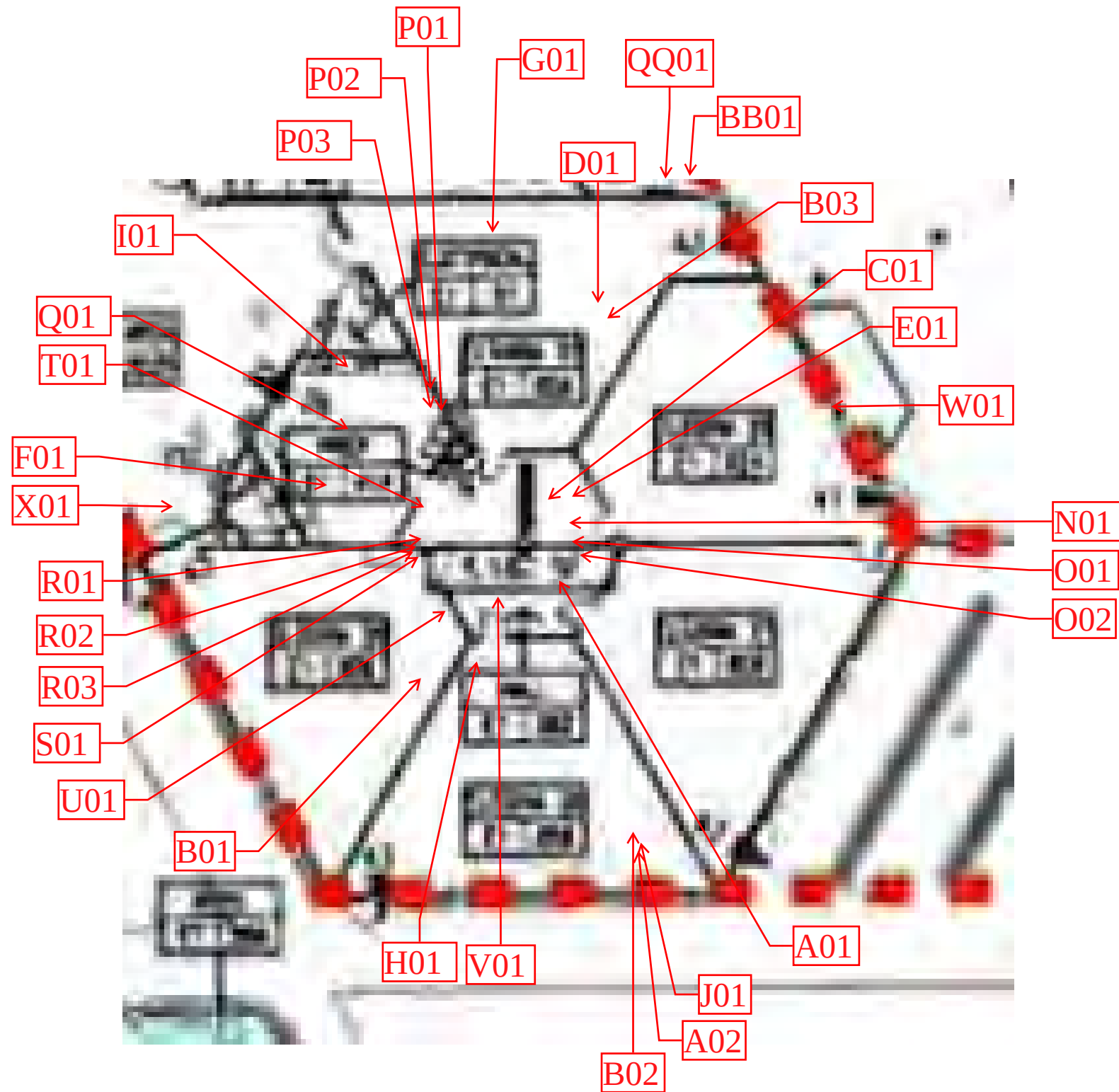
MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	148
Metal Halide/Sodium	Universal Waste	2
Batteries: Emergency Lights & Exit Signs	Universal Waste	5
Light Fixture Ballasts	Polychlorinated Biphenyls or E-Waste	51
Smoke Detectors	Low-Level Radiation	12

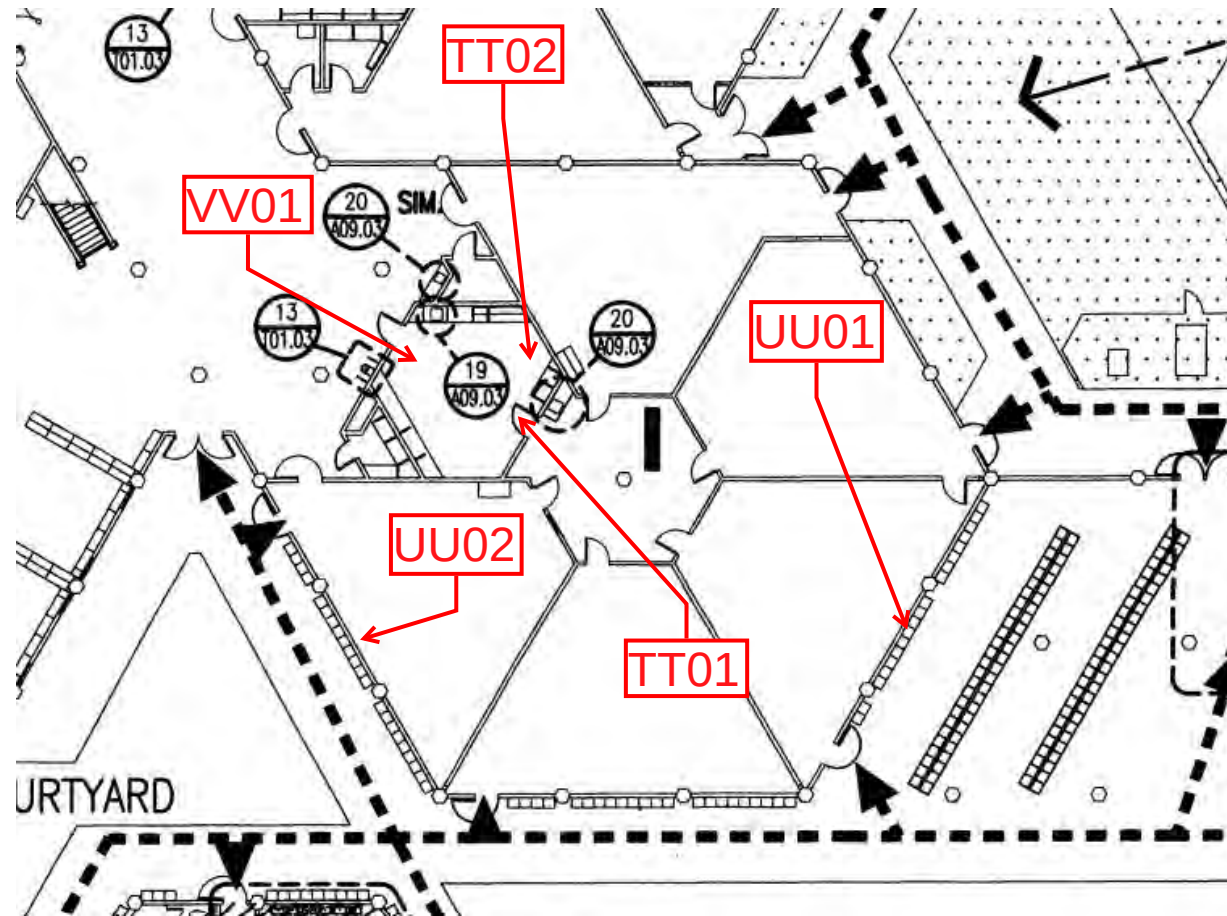
BOWDITCH MIDDLE SCHOOL BUILDING I ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Wallboard/Joint Compound	White/White, Smooth	2
B	Spray Applied Acoustic Ceiling	Popcorn	3
C	Wallboard/Joint Compound	White/Beige	1
D	Basecove/Mastic	4" Grey/Beige	1
E	Sink Undercoating Mastic	Grey	1
F	Ceiling Tile/Mastic	12" Fissured	1
G	Ceiling Panel	2' x 4' Fissured	1
H	Mastic	Tan, Carpet	1
I	Vinyl Floor Tile/Mastic	12" White/Tan	1
J	Duct Insulation	White, Fiberglass, Foil Backing	1
N	Mastic	Grey, Duct	1
O	Roofing Debris	Black-Grey	2
P	Thermal System Insulation	White-Grey, Hard Pack, Elbows	3
Q	Thermal System Insulation/Mastic	Fiberglass, Pipe, Tan/Black	1
R	Wallboard/Joint Compound	White/Beige, Unfinished (Damaged)	3
S	Mastic	Tan, Duct	1
T	Mastic	Grey, Penetrations	1
U	Mastic	Grey, Parapet Cap Seams	1
V	Mastic	Grey, Ladder Mount	1
W	Mastic	Black, Gutter	1
X	Roof Shingle, Paper	Brown/Black	1
Y	Not Used	Not Used	NA

**BOWDITCH MIDDLE SCHOOL
BUILDING I
ASBESTOS SAMPLING INVENTORY**

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
BB	Stucco	Sand Finish, Ceiling, Overhang	1
QQ	Mastic	Grey, Flashing Seam	1
SS	Not Used	Not Used	NA
TT	Mastic	Dark Brown, Acoustic Ceiling Tile (F)	2
UU	Vinyl Wall/Mastic	White/Beige	2
VV	Insulation	White, Fire Door Ceiling Hatch	1







Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)

NVLAP Lab Code: 101459-0

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B331276
Date Received: 04/04/22
Date Analyzed: 04/07/22
Date Printed: 04/07/22
First Reported: 04/07/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS Bldg. I

SGSFL Job ID: L1161
Total Samples Submitted: 24
Total Samples Analyzed: 24

Date(s) Collected:

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
I-A-01	12549275						
Layer: White Drywall			ND				
Layer: White Joint Compound		Chrysotile	2 %				
Layer: Drywall Tape			ND				
Layer: White Joint Compound		Chrysotile	2 %				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)		Fibrous Glass (10 %)					
I-A-02	12549276						
Layer: White Drywall			ND				
Layer: White Joint Compound		Chrysotile	2 %				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)		Fibrous Glass (10 %)					
I-B-01	12549277						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
I-B-02	12549278						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
I-B-03	12549279						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							

Client Name: Vista Environmental Consultants

Report Number: B331276

Date Printed: 04/07/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
I-C-01	12549280						
Layer: White Drywall			ND				
Layer: Beige Joint Compound		Chrysotile	Trace				
Layer: White Semi-Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)	Synthetic (5 %)					
I-D-01	12549281						
Layer: Blue Non-Fibrous Material			ND				
Layer: Beige Adhesive			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
I-E-01	12549282						
Layer: Grey Semi-Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (10 %)							
I-F-01	12549283						
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (95 %)							
I-G-01	12549284						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (35 %)	Fibrous Glass (45 %)						
I-H-01	12549285						
Layer: Tan Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
I-I-01	12549286						
Layer: White Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
I-J-01	12549287						
Layer: White Fibrous Material			ND				
Layer: Tan Fibrous Material			ND				
Layer: Foil			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (5 %)	Fibrous Glass (90 %)						

Client Name: Vista Environmental Consultants**Report Number:** B331276**Date Printed:** 04/07/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
I-N-01	12549288						
Layer: Grey Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
I-O-01	12549289						
Layer: Stones			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Tan Fibrous Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (15 %)	Fibrous Glass (10 %)						
I-O-02	12549290						
Layer: Stones			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)	Fibrous Glass (20 %)						
Comment: Bulk complex sample.							
I-P-01	12549291						
Layer: Grey Semi-Fibrous Material		Chrysotile	5 %				
Layer: White Woven Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (10 %)	Fibrous Glass (20 %)						
I-P-02	12549292						
Layer: Grey Semi-Fibrous Material		Chrysotile	5 %				
Layer: White Woven Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (10 %)	Fibrous Glass (20 %)						
I-P-03	12549293						
Layer: Grey Semi-Fibrous Material		Chrysotile	5 %				
Layer: White Woven Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (10 %)	Fibrous Glass (20 %)						

Client Name: Vista Environmental Consultants

Report Number: B331276

Date Printed: 04/07/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
I-Q-01	12549294						
Layer: Black Tar			ND				
Layer: Yellow Fibrous Material			ND				
Layer: White Fibrous Material			ND				
Layer: Foil			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (10 %)	Fibrous Glass (70 %)						
I-R-01	12549295						
Layer: White Drywall			ND				
Layer: Beige Joint Compound		Chrysotile	Trace				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						
I-R-02	12549296						
Layer: White Drywall			ND				
Layer: Beige Joint Compound		Chrysotile	Trace				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						
I-R-03	12549297						
Layer: White Drywall			ND				
Layer: Beige Joint Compound		Chrysotile	Trace				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						
I-S-01	12549298						
Layer: Tan Mastic		Chrysotile	2 %				
Total Composite Values of Non-Asbestos Fibrous Components:							
Fibrous Glass (5 %)							



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

Bulk Asbestos Point Count Analysis

(NESHAP Final Rule, 40 CFR, Part 61)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: N014624
Date Received: 04/20/22
Date Analyzed: 04/20/22
Date Printed: 04/20/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS Bldg. I

SGSFL Job ID: L1161

PLM Report Number: B331276

Total Samples Submitted: 6

Total Samples Analyzed: 6

Sample Preparation and Analysis:

The NESHAP Final Rule does not define the preparation method for multi-layered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

Sample ID	Lab Number	Layer Description
I-A-01	12549275	Composite of ALL Layers White Drywall White Joint Compound Drywall Tape White Joint Compound Paint

Point Count Results:

Number of asbestos points counted: 0

Number of non-empty points: 400

Layer percentage of entire sample: 100

Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.

I-A-02	12549276	Composite of ALL Layers White Drywall White Joint Compound Paint
---------------	----------	--

Point Count Results:

Number of asbestos points counted: 0

Number of non-empty points: 400

Layer percentage of entire sample: 100

Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.



Bulk Asbestos Point Count Analysis

(NESHAP Final Rule, 40 CFR, Part 61)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: N014624
Date Received: 04/20/22
Date Analyzed: 04/20/22
Date Printed: 04/20/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS Bldg. I

SGSFL Job ID: L1161

PLM Report Number: B331276

Total Samples Submitted: 6
Total Samples Analyzed: 6

Sample Preparation and Analysis:

The NESHAP Final Rule does not define the preparation method for multi-layered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

Sample ID	Lab Number	Layer Description
I-C-01	12549280	Composite of ALL Layers White Drywall Beige Joint Compound White Semi-Fibrous Material

Point Count Results:

Number of asbestos points counted: 0
Number of non-empty points: 400
Layer percentage of entire sample: 100
Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.

I-R-01	12549295	Composite of ALL Layers White Drywall Beige Joint Compound
---------------	----------	---

Point Count Results:

Number of asbestos points counted: 0
Number of non-empty points: 400
Layer percentage of entire sample: 100
Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.



Bulk Asbestos Point Count Analysis

(NESHAP Final Rule, 40 CFR, Part 61)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: N014624
Date Received: 04/20/22
Date Analyzed: 04/20/22
Date Printed: 04/20/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS Bldg. I

SGSFL Job ID: L1161

PLM Report Number: B331276

Total Samples Submitted: 6
Total Samples Analyzed: 6

Sample Preparation and Analysis:

The NESHAP Final Rule does not define the preparation method for multi-layered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

Sample ID	Lab Number	Layer Description
I-R-02	12549296	Composite of ALL Layers White Drywall Beige Joint Compound

Point Count Results:

Number of asbestos points counted: 0
Number of non-empty points: 400
Layer percentage of entire sample: 100
Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.

I-R-03	12549297	Composite of ALL Layers White Drywall Beige Joint Compound
---------------	----------	---

Point Count Results:

Number of asbestos points counted: 0
Number of non-empty points: 400
Layer percentage of entire sample: 100
Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.



Bulk Asbestos Point Count Analysis

(NESHAP Final Rule, 40 CFR, Part 61)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: N014624
Date Received: 04/20/22
Date Analyzed: 04/20/22
Date Printed: 04/20/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS Bldg. I

SGSFL Job ID: L1161

PLM Report Number: B331276

Total Samples Submitted: 6

Total Samples Analyzed: 6

Sample Preparation and Analysis:

The NESHAP Final Rule does not define the preparation method for multi-layered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

Sample ID	Lab Number	Layer Description
-----------	------------	-------------------

Note: Point count results are reported to the nearest percent per EPA method.

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ) = 1%. Trace denotes the presence of asbestos below the LOQ. ND = None Detected.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 03-31-2022

LOCATION: Bowditch MS Bldg. I

PROJECT NUMBER: 221167001

SAMPLED BY: MOLESKE-JONES

CAC OR SST No: 15-5543
96.1913

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
I	A	01	WBTC	WALL SMOOTH	CENTER RM	
	↓	02	↓	CEILING SMOOTH	Rm 28	
	B	01	SAAC	PERFOR	Rm 29	
	↓	02	↓	↓	Rm 28	
	↓	03	↓	↓	Rm 25	
	C	01	PLYWALL	6" VINYL WALL COVERING	CENTER RM	
	D	01	B/C	4" GREY TYPE III MORTAR	Rm 25	
	E	01	SURF	GREY	CENTER RM	
	F	01	CIT	12" FISSURED	WORK RM	
↓	G	01	C/P	2'x4' FISSURED	Rm 25	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. [Signature]
TRANSFER SIGNATURE

MOLESKE
PRINTED NAME

03-31-2022
DATE/TIME

2. _____
TRANSFER SIGNATURE

PRINTED NAME

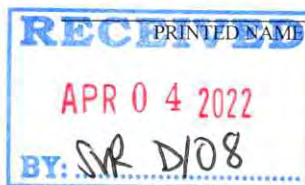
DATE/TIME

3. _____
TRANSFER SIGNATURE

PRINTED NAME

DATE/TIME

PAGE 1 OF 3





VISTA ENVIRONMENTAL
CONSULTING

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 03-31-2022

LOCATION: Bowditch MS Bldg. I

PROJECT NUMBER: 221167001

SAMPLED BY: KOLESAK-JONES

CAC OR SST No: 15-5543
96.1913

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
I	H	01	CARPET MASTIC	TAN	RM 28	
↓	I	01	VFT	12" WHIT TAN MASTIC	STORAGE	
↓	J	01	DUCT INSULATION	FOIL BACKING W/WHIT FIBERGLASS	RM 28	
↓	N	01	DUCT MASTIC	GREY	PLENUM	
↓	O	01	ROOFING DEBRIS	BLACK/GREY	PLENUM	
↓	↓	02	↓	↓	↓	
↓	P	01	TSI HARDPACK	WHITE/ GREY	PLENUM	
↓	↓	02	↓	↓	↓	
↓	↓	03	↓	↓	↓	
↓	Q	01	TSI FIBERGLASS	PIPE W/BLK MASTIC	PLENUM	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. RILY
TRANSFER SIGNATURE

KOLESAK
PRINTED NAME

03-31-2022
DATE/TIME

2. _____
TRANSFER SIGNATURE

PRINTED NAME

DATE/TIME

3. _____
TRANSFER SIGNATURE

PRINTED NAME

DATE/TIME

PAGE 2 OF 3





2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 03-31-2022

LOCATION: Bowditch MS Bldg. I

PROJECT NUMBER: 221167001

SAMPLED BY: KOCESAR-JONES

CAC OR SST No: 15-5543
96-113

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
<u>I</u>	<u>R</u>	<u>01</u>	<u>WBTC</u>	<u>UNFINISH</u>	<u>PLENUM</u>	
<u>↓</u>	<u>↓</u>	<u>02</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	
<u>↓</u>	<u>↓</u>	<u>03</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	
<u>✓</u>	<u>S</u>	<u>01</u>	<u>DOCT</u> <u>MASTIC</u>	<u>TAN</u>	<u>PLENUM</u>	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS: _____

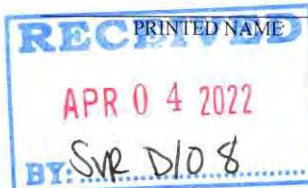
CHAIN OF CUSTODY:

1. [Signature] KOCESAR 03-31-2022
TRANSFER SIGNATURE PRINTED NAME DATE/TIME

2. _____
TRANSFER SIGNATURE PRINTED NAME DATE/TIME

3. _____
TRANSFER SIGNATURE PRINTED NAME DATE/TIME

PAGE 3 OF 3





Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)

NVLAP Lab Code: 101459-0

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B331530
Date Received: 04/08/22
Date Analyzed: 04/14/22
Date Printed: 04/14/22
First Reported: 04/14/22

Job ID/Site: 221167001 - Bowditch MS Bldg. I

SGSFL Job ID: L1161
Total Samples Submitted: 7
Total Samples Analyzed: 7

Date(s) Collected: 04/05/2022

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
I-T-01	12551893						
Layer: Grey Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
I-U-01	12551894						
Layer: Grey Mastic			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
I-V-01	12551895						
Layer: Grey Mastic			ND				
Layer: Stones			ND				
Layer: Black Semi-Fibrous Tar			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Fibrous Glass (5 %)							
I-W-01	12551896						
Layer: Black Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
I-X-01	12551897						
Layer: Grey Roof Shingle			ND				
Layer: Grey Roof Shingle			ND				
Layer: Black Felt			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (15 %) Fibrous Glass (10 %)							
I-BB-01	12551898						
Layer: Grey Cementitious Material			ND				
Layer: White Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							

Client Name: Vista Environmental Consultants

Report Number: B331530

Date Printed: 04/14/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
I-QQ-01	12551899						
Layer: Grey Mastic			ND				
Layer: Paint			ND				

Total Composite Values of Non-Asbestos Fibrous Components:



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 04-05-2022

LOCATION: Bowditch MS Bldg. I

PROJECT NUMBER: 221167001

SAMPLED BY: KOLEGAR-ANDERSON

CAC OR SST No: 15-3543

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
I	T	01	PENETRATION MASTIC	GREY	ROOF	
	U	01	PARAPET CAP SEAL MASTIC	GREY	ROOF	
	V	01	LADDER MOUNT MASTIC	GREY	ROOF	
	W	01	GUTTER MASTIC	BLACK w/ GREY PAPER	ROOF	
	X	01	ROOF SHINGLE	BROWN w/ BLK PAPER	ROOF	
	BB	01	STUCCO	CEILING	RM 24	
	QQ	01	FASHING MASTIC	GREY	ROOF	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS: _____

CHAIN OF CUSTODY:

1. R/L
TRANSFER SIGNATURE
RECEIVED
APR 08 2022
2. [Signature]
TRANSFER SIGNATURE
BY: [Signature] 04/08/2022
3. _____
TRANSFER SIGNATURE

KOLEGAR
PRINTED NAME

04-05-2022
DATE/TIME

PRINTED NAME

DATE/TIME

PRINTED NAME

DATE/TIME

PAGE 1 OF _____

Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)
NVLAP Lab Code: 101459-0

Vista Environmental Consultants
Chris Burns
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B380935
Date Received: 02/12/26
Date Analyzed: 02/16/26
Date Printed: 02/16/26
First Reported: 02/16/26

Job ID/Site: 261167001; SMFCUSD, BOWDITCH MS, Building # I

SGSFL Job ID: L1161
Total Samples Submitted: 5
Total Samples Analyzed: 5

Date(s) Collected: 02/12/2026

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
I-TT01	12847236						
Layer: Brown Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
I-TT02	12847237						
Layer: Brown Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
I-UU01	12847238						
Layer: Off-White Woven Material			ND				
Layer: Beige Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)		Synthetic (15 %)					
I-UU02	12847239						
Layer: Off-White Woven Material			ND				
Layer: Beige Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)		Synthetic (15 %)					
I-VV01	12847240						
Layer: White Non-Fibrous Material		Chrysotile	2 %	Amosite	2 %		
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							



Maria Casper, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Inhomogeneous samples are separated into homogenous subsamples and analyzed individually. Analytical results and reports are generated by SGS at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGS to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGS. The client is solely responsible for the use and interpretation of test results and reports requested from SGS. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. SGS is not able to assess the degree of hazard resulting from materials analyzed. SGS reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 2/12/26

LOCATION: BOWDITCH MS

PROJECT NUMBER: 261167001

SAMPLED BY: JR

(BUILDING # I)

CAC OR SST No: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
<u>I</u>	<u>TT</u>	<u>01</u>	<u>Mastic</u>	<u>Dark Brown, ACT</u>		
<u>I</u>	<u>TT</u>	<u>02</u>				
<u>I</u>	<u>UU</u>	<u>01</u>	<u>Vinyl Wall Mastic</u>	<u>white/gray, walls</u>		
<u>I</u>	<u>UU</u>	<u>02</u>				
<u>I</u>	<u>VV</u>	<u>01</u>	<u>INSULATION</u>	<u>white, Fire Door Hatch</u>		<u>4SF</u>

5 samples

ANALYTICAL METHOD: (PLM) 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR (3 DAY)

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com ; nocaladmin@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Luis J. Rocha
TRANSFER SIGNATURE

LUIS J. ROCHA
PRINTED NAME

02/12/26-1100
DATE/TIME

2. received: H
TRANSFER SIGNATURE

Holly Chen
PRINTED NAME

2/12/26 @1130 D10
DATE/TIME

3. _____
TRANSFER SIGNATURE

PRINTED NAME

DATE/TIME

PAGE 1 OF 1

**Bowditch Middle School
Building I
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
2			SHUTTER_CAL					1.09	cps
3			CALIBRATE				Positive	1.2	mg/cm ²
4			CALIBRATE				Positive	1.2	mg/cm ²
5			CALIBRATE				Positive	1.2	mg/cm ²
6	Bldg. I	29	WALL	DRYWALL	BEIGE	INTACT	Negative	0	mg/cm ²
7	Bldg. I	29	DOOR	WOOD	BLUE, DARK	INTACT	Negative	0.6	mg/cm ²
8	Bldg. I	29	DOOR FRAME	METAL	WHITE	INTACT	Negative	0.09	mg/cm ²
9	Bldg. I	29	POST	CONCRETE	BEIGE	INTACT	Negative	0	mg/cm ²
10	Bldg. I	29	Whiteboard	Other	WHITE	INTACT	Negative	0.01	mg/cm ²
11	Bldg. I	29	WINDOW FRAME	WOOD	WHITE	INTACT	Negative	0.18	mg/cm ²
12	Bldg. I	25	DOOR FRAME	WOOD	WHITE	INTACT	Negative	0.16	mg/cm ²
13	Bldg. I	25	WALL	DRYWALL	BEIGE	INTACT	Negative	0	mg/cm ²
14	Bldg. I	25	COUNTER	Laminate	BLUE	INTACT	Negative	0	mg/cm ²
15	Bldg. I	25	Whiteboard	Other	WHITE	INTACT	Positive	4.8	mg/cm ²
16	Bldg. I	25	DOOR	METAL	BLUE, LIGHT	INTACT	Negative	0	mg/cm ²
17	Bldg. I	25	COLUMN	WOOD	BEIGE	INTACT	Negative	0	mg/cm ²
18	Bldg. I	25	COLUMN	WOOD	BEIGE	INTACT	Negative	0.01	mg/cm ²
19	Bldg. I	27	DOOR	WOOD	BLUE, DARK	INTACT	Negative	0.4	mg/cm ²
20	Bldg. I	27	DOOR	WOOD	BLUE, LIGHT	INTACT	Negative	0	mg/cm ²
21	Bldg. I	27	WINDOW FRAME	WOOD	WHITE	INTACT	Negative	0.03	mg/cm ²
22	Bldg. I	27	COUNTER	Laminate	BLUE	INTACT	Negative	0	mg/cm ²
23	Bldg. I	26	CEILING	Fissured	WHITE	INTACT	Negative	0	mg/cm ²
24	Bldg. I	25	CEILING	Fissured	WHITE	INTACT	Negative	0	mg/cm ²
25	Bldg. I	Bldg I Corridor	CEILING light casing	WOOD	WHITE	INTACT	Negative	0	mg/cm ²
26	Bldg. I	Bldg I Corridor	BEAM	WOOD	WHITE	INTACT	Negative	0	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building I
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
27	Bldg. I	Storagw Closet	PIPE	WOOD	WHITE	INTACT	Negative	0.04	mg/cm ²
28	Bldg. I	Bldg I Corridor	CABINET	METAL	BLUE, DARK	INTACT	Negative	0	mg/cm ²
29	Bldg. I	Bldg I Corridor	CABINET	METAL	BEIGE	INTACT	Negative	0	mg/cm ²
30	Bldg. I	Bldg I Corridor	WALL	VINYL	BEIGE	INTACT	Negative	0	mg/cm ²
31	Bldg. I	Bldg I Corridor	WALL	VINYL	BEIGE	INTACT	Negative	0	mg/cm ²
32	Bldg. I	STORAGE	CABINET	METAL	BLUE, DARK	INTACT	Negative	0.8	mg/cm ²
33	Bldg. I	Electrical	Bracket	METAL	BLACK	INTACT	Negative	0	mg/cm ²
34	Bldg. I	Electrical	WALL PANEL	WOOD	WHITE	INTACT	Negative	0	mg/cm ²
35	Bldg. I	Electrical	PIPE	METAL	WHITE	INTACT	Positive	1.8	mg/cm ²
36	Bldg. I	Electrical	CABINET	METAL	WHITE	INTACT	Negative	0.03	mg/cm ²
37	Bldg. I	Electrical	CABINET	METAL	GRAY	INTACT	Negative	0.13	mg/cm ²
38	Bldg. I	Electrical	BASEBOARD	WOOD	BROWN	INTACT	Negative	0.02	mg/cm ²
202			CALIBRATE				Positive	1.2	mg/cm ²
203			CALIBRATE				Positive	1.2	mg/cm ²
204			SHUTTER_CAL					1	cps
205			CALIBRATE				Positive	1.2	mg/cm ²
207			CALIBRATE				Positive	1.3	mg/cm ²
208			CALIBRATE				Positive	1.2	mg/cm ²
311	BLDG I	EXT HANDICAP RR	LOCKERS	METAL	TAN	INTACT	Negative	0	mg/cm ²
312	BLDG I	EXT HANDICAP RR	LOCKERS	METAL	TAN	INTACT	Negative	0	mg/cm ²
313	BLDG I	Exterior	WALL PANEL	WOOD	TAN	INTACT	Negative	0	mg/cm ²
314	BLDG I	Exterior	WALL PANEL	WOOD	TAN	INTACT	Negative	0	mg/cm ²
315	BLDG I	Exterior	POLE	METAL	TAN	INTACT	Negative	0.04	mg/cm ²
316	BLDG I	Exterior	COLUMN	CONCRETE	TAN	INTACT	Negative	0	mg/cm ²
318	BLDG I	Exterior	COLUMN	CONCRETE	TAN	INTACT	Negative	0.01	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building I
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
319	BLDG I	Exterior	FLOOR	CONCRETE	RED	INTACT	Negative	0.01	mg/cm ²
320	BLDG I	Exterior	FLOOR	CONCRETE	RED	INTACT	Negative	0	mg/cm ²
321	BLDG I	Exterior	FASCIA	WOOD	BLUE	INTACT	Negative	0	mg/cm ²
322	BLDG I	Exterior	FASCIA	METAL	BLUE	INTACT	Negative	0	mg/cm ²
324	BLDG I	Exterior	OVERHANG	STUCCO	TAN	INTACT	Negative	0	mg/cm ²
325	BLDG I	Exterior	BEAM BRACKET	METAL	TAN	INTACT	Negative	0.21	mg/cm ²
332			CALIBRATE				Positive	1.2	mg/cm ²
334			CALIBRATE				Positive	1.2	mg/cm ²
336			CALIBRATE				Positive	1.2	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

BOWDITCH MIDDLE SCHOOL BUILDING J



The information contained in these appendices are not stand-alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAD & Cal-OSHA classifications are based on the materials being

BOWDITCH MIDDLE SCHOOL BUILDING J HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/Off-White, Smooth	Interior - Wall and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	31,750 SF
C	Wallboard/Joint Compound	White/Off-White	Interior - w/Vinyl Wall Covering	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
L	Mastic	Tan, Duct	Interior - Plenum	Class II	Category I - Non-Friable	80 SF
GG	Glazing	Grey, Window	Interior/Exterior	Class II	Category I - Non-Friable	400 LF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
Bldg Media Center	Door	Wood	Blue, Dark	Intact	0.4	mg/cm ²
Bldg Media Center	Door Frame	Wood	White	Intact	0.05	mg/cm ²
Bldg Media Center	Door	Metal	White	Intact	0.27	mg/cm ²
Bldg Media Center	Wall	Other	Beige	Intact	0.9	mg/cm ²
Bldg Media Center	Wall Panel	Vinyl	Beige	Intact	0.01	mg/cm ²
Bldg Media Center	Stairs	Wood	Beige	Intact	0.01	mg/cm ²
Bldg Media Center	Counter	Wood	Blue, Dark	Intact	0.01	mg/cm ²
Bldg Media Center	Wall Panel	Vinyl	Beige	Intact	1	mg/cm²
Bldg Media Center	Cabinet	Metal	Blue, Dark	Intact	0.7	mg/cm ²
Bldg Media Center	Cabinet	Wood	Blue, Dark	Intact	0.04	mg/cm ²
Bldg Media Center	Shelf	Wood	Blue, Dark	Intact	0.02	mg/cm ²
Bldg Media Center	Beam Bracket	Metal	White	Intact	4.7	mg/cm²

BOWDITCH MIDDLE SCHOOL BUILDING J HAZARDOUS MATERIALS SUMMARY

Room	Component	Substrate	Color	Condition	Pb	Units
Bldg Media Center	Counter	Vinyl	Brown	Intact	0.05	mg/cm ²
Kbow	Beam	Wood	Beige	Intact	0.01	mg/cm ²
Kbow	Wall Panel	Wood	Green	Intact	0.02	mg/cm ²
Kbow	Hvac	Metal	Beige	Intact	0.01	mg/cm ²
Kbow	Window Frame	Metal	White	Intact	0.12	mg/cm ²
Resource Coordinator	Shelf	Vinyl	Brown	Intact	0.23	mg/cm ²
Resource Coordinator	Door	Wood	Blue, Dark	Intact	0.01	mg/cm ²
Resource Coordinator	Door	Wood	Blue, Dark	Intact	0.7	mg/cm ²
Resource Coordinator	Door Frame	Metal	White	Intact	0.14	mg/cm ²
Corridor	Door	Wood	Blue, Dark	Intact	0.01	mg/cm ²
Corridor	Cabinet	Vinyl	Brown	Intact	0.21	mg/cm ²
Corridor	Cabinet	Vinyl	Brown	Intact	0.3	mg/cm ²
Corridor	Trim	Wood	White	Intact	0.03	mg/cm ²
Exterior	Pipe	Metal	Tan	Intact	0.2	mg/cm ²

Bold = Lead Based

Devices with Potential Hazardous Materials

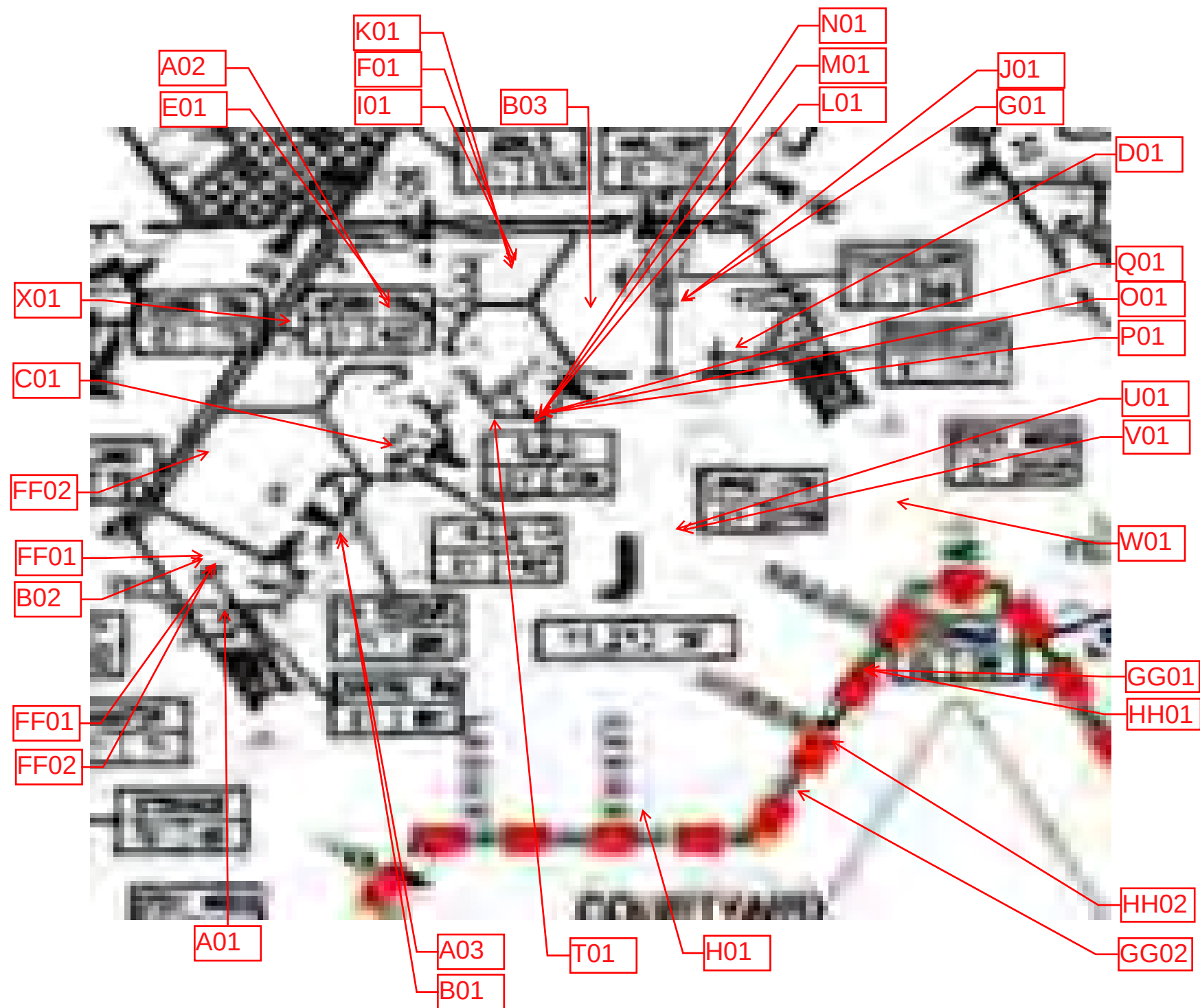
MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	261
Metal Halide/Sodium	Universal Waste	9
Batteries: Emergency Lights & Exit Signs	Universal Waste	2
Light Fixture Ballasts	Polychlorinated Biphenyls or E-Waste	84

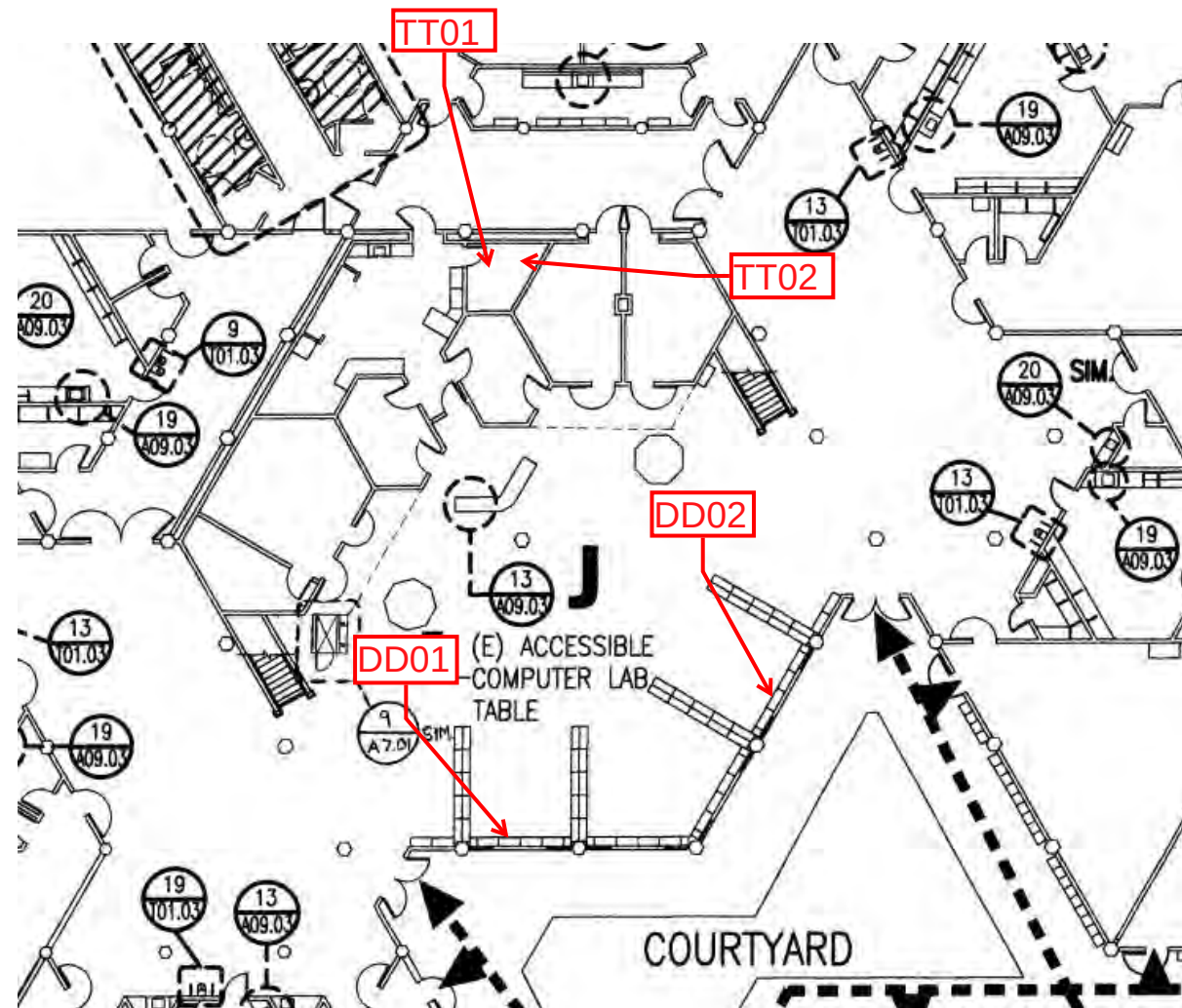
**BOWDITCH MIDDLE SCHOOL
BUILDING J
ASBESTOS SAMPLING INVENTORY**

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Wallboard/Joint Compound	White/Off-White, Smooth	2
B	Spray Applied Acoustic Ceiling	Popcorn	3
C	Wallboard/Joint Compound	White/Off-White	1
D	Basecove/Mastic	4" Grey/Beige	1
E	Sink Undercoating Mastic	Grey	1
F	Ceiling Tile	12" Tan, Fissured	1
G	Ceiling Panel	2' x 4' Fissured	1
H	Mastic	Tan, Duct	1
I	Vinyl Flooring Tile/Mastic	12" White/Tan	1
J	Duct Insulation	White, Fiberglass, Foil Backing	1
K	Vinyl Flooring Tile/Mastic	12" Grey/Tan	1
L	Mastic	Tan, Duct	1
M	Mastic	Grey, Duct	1
N	Thermal System Insulation/Black	Fiberglass, Foil Jacket, Pipe/Black	1
O	Bat Insulation	Pink	1
Q	Roofing Debris	Black, Grey	1
T	Mastic	Grey, Penetration	1
U	Mastic	Grey, Parapet Cap Seam	1
V	Mastic	Grey, Ladder Mount	1
W	Mastic	Black, Gutter	1
Y	Not Used	Not Used	NA
BB	Stucco	Sand Finish, Ceiling	1

**BOWDITCH MIDDLE SCHOOL
BUILDING J
ASBESTOS SAMPLING INVENTORY**

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
DD	Mastic	Tan, Pin-up Board	2
FF	Wall Panel	Pressboard	2
GG	Caulking	Grey, Window	2
HH	Caulking	White, Interior and Exterior, Windows	2
SS	Not Used	Not Used	NA
TT	Mastic	Dark Brown, Acoustic Ceiling Tile (F)	2







Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)

NVLAP Lab Code: 101459-0

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B331523
Date Received: 04/08/22
Date Analyzed: 04/13/22
Date Printed: 04/13/22
First Reported: 04/13/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS Bldg. J

SGSFL Job ID: L1161
Total Samples Submitted: 32
Total Samples Analyzed: 31

Date(s) Collected: 04/05/2022

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
J-A-01	12551741						
Layer: White Drywall			ND				
Layer: Off-White Joint Compound		Chrysotile	2 %				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						
J-A-02	12551742						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						
J-B-01	12551743						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
J-B-02	12551744						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
J-B-03	12551745						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							

Client Name: Vista Environmental Consultants**Report Number:** B331523**Date Printed:** 04/13/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
J-C-01	12551746						
Layer: White Drywall			ND				
Layer: Off-White Joint Compound		Chrysotile	2 %				
Layer: Off-White Mastic			ND				
Layer: Off-White Woven Material			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (20 %)	Fibrous Glass (10 %)						
J-D-01	12551747						
Layer: Blue Non-Fibrous Material			ND				
Layer: Off-White Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
J-E-01	12551748						
Layer: Grey Coating			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
J-F-01	12551749						
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (95 %)							
J-G-01	12551750						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (35 %)	Fibrous Glass (45 %)						
J-H-01	12551751						
Layer: Tan Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
J-I-01	12551752						
Layer: White Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
J-J-01	12551753						
Layer: White Fibrous Material			ND				
Layer: Silver Foil			ND				
Total Composite Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)	Fibrous Glass (99 %)						

Client Name: Vista Environmental Consultants**Report Number:** B331523**Date Printed:** 04/13/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
J-K-01	12551754						
Layer: Grey Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
J-L-01	12551755						
Layer: Off-White Semi-Fibrous Material		Chrysotile	2 %				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
J-M-01	12551756						
Layer: Grey Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
J-N-01	12551757						
Layer: Orange Fibrous Material			ND				
Layer: Black Tar			ND				
Layer: White Fibrous Material			ND				
Layer: Silver Foil			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (5 %) Fibrous Glass (85 %)							
J-O-01	12551758						
Layer: Yellow Fibrous Material			ND				
Layer: Tan Fibrous Material			ND				
Layer: Silver Foil			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (5 %) Fibrous Glass (90 %)							
J-P-01	12551759						
Layer: Roofing Debris			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (10 %) Fibrous Glass (10 %)							
J-Q-01	12551760						
Layer: Brown Roof Shingle			ND				
Layer: Black Felt			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (20 %) Fibrous Glass (20 %)							
J-T-01	12551761						
Layer: Grey Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
J-U-01	12551762						
Layer: Grey Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							

Client Name: Vista Environmental Consultants**Report Number:** B331523**Date Printed:** 04/13/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
J-V-01	12551763						
Layer: Grey Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
J-W-01	12551764						
Layer: Black Mastic			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
J-BB-01	12551766						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
J-FF-01	12551767						
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (95 %)							
J-FF-02	12551768						
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (95 %)							
J-GG-01	12551769						
Layer: Brown Non-Fibrous Material		Chrysotile	Trace				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
J-GG-02	12551770						
Layer: Brown Non-Fibrous Material		Chrysotile	Trace				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
J-HH-01	12551771						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							
J-HH-02	12551772						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Non-Asbestos Fibrous Components: Cellulose (Trace)							

Client Name: Vista Environmental Consultants

Report Number: B331523

Date Printed: 04/13/22

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
-----------	------------	------------------	---------------------	------------------	---------------------	------------------	---------------------



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



Bulk Asbestos Point Count Analysis

(NESHAP Final Rule, 40 CFR, Part 61)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: N014625
Date Received: 04/20/22
Date Analyzed: 04/20/22
Date Printed: 04/20/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS Bldg. J

SGSFL Job ID: L1161

PLM Report Number: B331523

Total Samples Submitted: 2

Total Samples Analyzed: 2

Sample Preparation and Analysis:

The NESHAP Final Rule does not define the preparation method for multi-layered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

Sample ID	Lab Number	Layer Description
J-A-01	12551741	Composite of ALL Layers White Drywall Off-White Joint Compound Paint

Point Count Results:

Number of asbestos points counted: 0
Number of non-empty points: 400
Layer percentage of entire sample: 100
Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.

J-C-01	12551746	Composite of ALL Layers White Drywall Off-White Joint Compound Off-White Mastic Off-White Woven Material
---------------	----------	---

Point Count Results:

Number of asbestos points counted: 0
Number of non-empty points: 400
Layer percentage of entire sample: 100
Percent asbestos in layer: < 1

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.



Bulk Asbestos Point Count Analysis

(NESHAP Final Rule, 40 CFR, Part 61)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: N014625
Date Received: 04/20/22
Date Analyzed: 04/20/22
Date Printed: 04/20/22

Job ID/Site: 221167001 - SMFCUSD, Bowditch MS Bldg. J

SGSFL Job ID: L1161

PLM Report Number: B331523

Total Samples Submitted: 2

Total Samples Analyzed: 2

Sample Preparation and Analysis:

The NESHAP Final Rule does not define the preparation method for multi-layered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

Sample ID	Lab Number	Layer Description
-----------	------------	-------------------

Note: Point count results are reported to the nearest percent per EPA method.

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ) = 1%. Trace denotes the presence of asbestos below the LOQ. ND = None Detected.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 04-05-2022

LOCATION: Bowditch MS Bldg. J

PROJECT NUMBER: 221167001

SAMPLED BY: KOLESAK-ANDERSON

CAC OR SST NO: 15-5543

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
J	A	01	WBTC	WALL SMOOTH	LIBRARY UPPER WALL	
	↓	02	↓	CEILING SMOOTH	WORK RM	
	B	01	SAAC	POPCORN	LIBRARY SOFFIT	
	↓	02	↓	↓	SOUND RM	
	↓	03	↓	↓	MEZZANINE	
	C	01	DRYWALL	W/VINYL WALL COVERING	CENTER OFFICE MR. PERRY	
	D	01	B/C	4" GREY W/ BEIGE MASTIC	MEZZANINE	
	E	01	SUCH	GREY	WORK RM	
	F	01	CT	12" FISSURED	STORAGE	
	G	01	C/P	2'X4' FISSURED	MEZZANINE	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. R. Hyl
TRANSFER SIGNATURE

KOLESAK
PRINTED NAME

04-05-2022
DATE/TIME

2. _____
TRANSFER SIGNATURE

PRINTED NAME

DATE/TIME

3. _____
TRANSFER SIGNATURE

PRINTED NAME

DATE/TIME

PAGE 1 OF 4





2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 04-05-2022

LOCATION: Bowditch MS Bldg. J

PROJECT NUMBER: 221167001

SAMPLED BY: KOLEGAR-ANDERSON

CAC OR SST NO: 155543

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
J	H	01	CARPET MASTIC	TAN	LIBRARY AT WINDOW	
	I	01	VFT	12" WHITE W/TAN MASTIC	WORK RM	
	J	01	DUCT INS	FOIL BACKING W/FIBERGLASS	MERZEAU WE	
	K	01	VFT	12" GREY W/TAN MASTIC	STORAGE	
	L	01	DUCT MASTIC	TAN	PLENUM	
	M	01	DUCT MASTIC	GREY	PLENUM	
	N	01	TSI PIPE	FIBERGLASS W/FOIL JACKET AND BLACK MASTIC	PLENUM	
	O	01	BAT INS	PINK	PLENUM	
	P	01	WBTC	UNFINISH	PLENUM	
	Q	01	ROOFING DEBRIS	BLACK-GREY	PLENUM	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS: _____

CHAIN OF CUSTODY:

1. R. H. J. KOLEGAR 04-05-2022
TRANSFER SIGNATURE PRINTED NAME DATE/TIME

2. _____
TRANSFER SIGNATURE PRINTED NAME DATE/TIME

3. _____
TRANSFER SIGNATURE PRINTED NAME DATE/TIME

PAGE 2 OF 4





2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 04-05-2022

LOCATION: Bowditch MS Bldg. J

PROJECT NUMBER: 221167001

SAMPLED BY: VOLESAR-ANDERSON

CAC OR SST No: 15-5543

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
J	T	01	PENETRATION MASTIC	GREY	ROOF	
	U	01	PARAPET CAP SEDUM MASTIC	GREY	ROOF	
	V	01	LADDER MOUNT MASTIC	GREY	ROOF	
	W	01	GUTTER MASTIC	BLACK	ROOF	
	X	01	ROOF SHINGLES	BROWN w/ BLACK PAPER	ROOF	
	BB	01	STUCCO	CEILING	EXTERIOR AT ENTRY	
	FF	01	PANEL WALL	PRESSBOARD	SOUND RM	
	↓	02	↓	↓	PHOTOGRAPHIC RM	
	GG	01	WINDOW GLAZING	GREY	LIBRARY	
	↓	02	↓	↓	↓	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS: _____

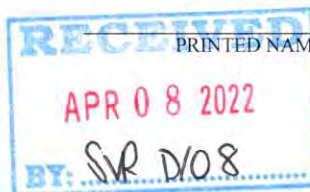
CHAIN OF CUSTODY:

1. VOLESAR 04-05-2022
TRANSFER SIGNATURE PRINTED NAME DATE/TIME

2. _____
TRANSFER SIGNATURE PRINTED NAME DATE/TIME

3. _____
TRANSFER SIGNATURE PRINTED NAME DATE/TIME

PAGE 3 OF 4





VISTA ENVIRONMENTAL
CONSULTING

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 04-05-2022

LOCATION: Bowditch MS Bldg. J

PROJECT NUMBER: 221167001

SAMPLED BY: KOLEGAR - ANDERSON

CAC OR SST No: 15-5543

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
J	HH	01	WINDOW CAULKING	WHITE	INTERIOR	
↓	↓	02	↓	↓	EXTERIOR	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com labreports@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS: _____

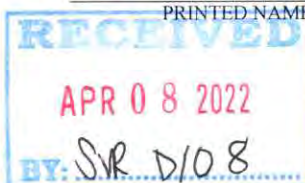
CHAIN OF CUSTODY:

1.  KOLEGAR 04-05-2022
TRANSFER SIGNATURE PRINTED NAME DATE/TIME

2. _____
TRANSFER SIGNATURE PRINTED NAME DATE/TIME

3. _____
TRANSFER SIGNATURE PRINTED NAME DATE/TIME

PAGE 4 OF 4



Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)
NVLAP Lab Code: 101459-0

Vista Environmental Consultants
Chris Burns
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B380934
Date Received: 02/12/26
Date Analyzed: 02/16/26
Date Printed: 02/16/26
First Reported: 02/16/26

Job ID/Site: 261167001; SMFCUSD, BOWDITCH MS BUILDING # J

SGSFL Job ID: L1161
Total Samples Submitted: 4
Total Samples Analyzed: 4

Date(s) Collected: 02/12/2026

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
J-DD01	12847232						
Layer: White Woven Material			ND				
Layer: Beige Mastic			ND				
Layer: White Skimcoat/Joint Compound		Chrysotile	Trace				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Synthetic (20 %)							
J-DD02	12847233						
Layer: White Woven Material			ND				
Layer: Beige Mastic			ND				
Layer: White Skimcoat/Joint Compound		Chrysotile	Trace				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Synthetic (20 %)							
J-TT01	12847234						
Layer: Brown Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (5 %)							
J-TT02	12847235						
Layer: Brown Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (5 %)							



Maria Casper, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Inhomogeneous samples are separated into homogenous subsamples and analyzed individually. Analytical results and reports are generated by SGS at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGS to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGS. The client is solely responsible for the use and interpretation of test results and reports requested from SGS. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. SGS is not able to assess the degree of hazard resulting from materials analyzed. SGS reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



VISTA ENVIRONMENTAL
CONSULTING

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 2/12/26

LOCATION: BOWDITCH MS

PROJECT NUMBER: 261167001

SAMPLED BY: JR

(BUILDING # J)

CAC OR SST No: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
J	DD	01	Panel/mastic	white/beige	pin up board	
J	DD	02	↓	↓		
J	TT	01	Mastic	Dark Brown	ACT	
J	TT	02	↓	↓		

4 Samples

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com ; nocaladmin@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Luis J. Rocha
TRANSFER SIGNATURE

LUIS J. ROCHA
PRINTED NAME

2/12/26 - 1100
DATE/TIME

2. Received: H
TRANSFER SIGNATURE

Holly Chen
PRINTED NAME

2/12/26 @ 1130 P/10
DATE/TIME

3. _____
TRANSFER SIGNATURE

PRINTED NAME

DATE/TIME

PAGE 1 OF 1

**Bowditch Middle School
Building J
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
204			SHUTTER_CAL					1	cps
205			CALIBRATE				Positive	1.2	mg/cm ²
207			CALIBRATE				Positive	1.3	mg/cm ²
208			CALIBRATE				Positive	1.2	mg/cm ²
209	Bldg. J	Bldg Media Center	COUNTER	Laminate	BLACK	INTACT	Negative	0	mg/cm ²
210	Bldg. J	Bldg Media Center	CABINET	Laminate	BLUE	INTACT	Negative	0	mg/cm ²
211	Bldg. J	Bldg Media Center	WALL	Other	BEIGE	INTACT	Negative	0	mg/cm ²
212	Bldg. J	Bldg Media Center	COUNTER	VINYL	BLACK	INTACT	Negative	0	mg/cm ²
213	Bldg. J	Bldg Media Center	CABINET	VINYL	BLUE	INTACT	Negative	0	mg/cm ²
214	Bldg. J	Bldg Media Center	Pin Board Trim	WOOD	WHITE	INTACT	Negative	0	mg/cm ²
215	Bldg. J	Bldg Media Center	DOOR	WOOD	BLUE, DARK	INTACT	Negative	0	mg/cm ²
216	Bldg. J	Bldg Media Center	DOOR	WOOD	BLUE, DARK	INTACT	Negative	0.4	mg/cm ²
217	Bldg. J	Bldg Media Center	DOOR FRAME	WOOD	WHITE	INTACT	Negative	0.05	mg/cm ²
218	Bldg. J	Bldg Media Center	DOOR FRAME	METAL	WHITE	INTACT	Negative	0	mg/cm ²
219	Bldg. J	Bldg Media Center	COLUMN	CONCRETE	BEIGE	INTACT	Negative	0	mg/cm ²
220	Bldg. J	Bldg Media Center	PIPE	METAL	BEIGE	INTACT	Negative	0	mg/cm ²
221	Bldg. J	Bldg Media Center	WINDOW FRAME	WOOD	BLUE, DARK	INTACT	Negative	0	mg/cm ²
222	Bldg. J	Bldg Media Center	WINDOW FRAME	WOOD	BLUE, DARK	INTACT	Negative	0	mg/cm ²
223	Bldg. J	Bldg Media Center	COLUMN	CONCRETE	BEIGE	INTACT	Negative	0	mg/cm ²
224	Bldg. J	Bldg Media Center	WALL	PLASTER	BEIGE	INTACT	Negative	0	mg/cm ²
225	Bldg. J	Bldg Media Center	DOOR	METAL	BLUE, LIGHT	INTACT	Negative	0	mg/cm ²
226	Bldg. J	Bldg Media Center	DOOR	METAL	WHITE	INTACT	Negative	0.27	mg/cm ²
227	Bldg. J	Bldg Media Center	WALL	Other	BEIGE	INTACT	Negative	0.9	mg/cm ²
228	Bldg. J	Bldg Media Center	Elevator	METAL	BEIGE	INTACT	Negative	0	mg/cm ²
229	Bldg. J	Bldg Media Center	STAIRS	WOOD	BEIGE	INTACT	Negative	0	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building J
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
230	Bldg. J	Bldg Media Center	STAIRS	WOOD	BLUE, DARK	INTACT	Negative	0	mg/cm ²
231	Bldg. J	Bldg Media Center	STAIRS	METAL	BLUE, DARK	INTACT	Negative	0	mg/cm ²
232	Bldg. J	Bldg Media Center	WALL PANEL	VINYL	BEIGE	INTACT	Negative	0.01	mg/cm ²
233	Bldg. J	Bldg Media Center	STAIRS	WOOD	BEIGE	INTACT	Negative	0.01	mg/cm ²
234	Bldg. J	Bldg Media Center	STAIRS	WOOD	BLUE, DARK	INTACT	Negative	0	mg/cm ²
235	Bldg. J	Bldg Media Center	STAIRS	METAL	BLUE, DARK	INTACT	Negative	0	mg/cm ²
236	Bldg. J	Bldg Media Center	COUNTER	WOOD	BLUE, DARK	INTACT	Negative	0.01	mg/cm ²
237	Bldg. J	Bldg Media Center	WALL PANEL	VINYL	BEIGE	INTACT	Positive	1	mg/cm ²
238	Bldg. J	Bldg Media Center	CABINET	METAL	BLUE, DARK	INTACT	Negative	0.7	mg/cm ²
239	Bldg. J	Bldg Media Center	CABINET	METAL	GRAY	INTACT	Negative	0	mg/cm ²
240	Bldg. J	Bldg Media Center	COUNTER	VINYL	BROWN	INTACT	Negative	0	mg/cm ²
241	Bldg. J	Bldg Media Center	CABINET	WOOD	BLUE, DARK	INTACT	Negative	0.04	mg/cm ²
242	Bldg. J	Bldg Media Center	SHELF	WOOD	BLUE, DARK	INTACT	Negative	0.02	mg/cm ²
243	Bldg. J	Bldg Media Center	CEILING	STUCCO	WHITE	INTACT	Negative	0	mg/cm ²
244	Bldg. J	Bldg Media Center	CEILING	STUCCO	WHITE	INTACT	Negative	0	mg/cm ²
245	Bldg. J	Bldg Media Center	BOILER	WOOD	WHITE	INTACT	Negative	0	mg/cm ²
246	Bldg. J	Bldg Media Center	BEAM	WOOD	WHITE	INTACT	Negative	0	mg/cm ²
247	Bldg. J	Bldg Media Center	BEAM BRACKET	METAL	WHITE	INTACT	Positive	4.7	mg/cm ²
249	Bldg. J	Bldg Media Center	CEILING	Fissured	WHITE	INTACT	Negative	0	mg/cm ²
250	Bldg. J	Bldg Media Center	COUNTER	VINYL	BROWN	INTACT	Negative	0.05	mg/cm ²
251	Bldg. J	Bldg Media Center	CABINET	VINYL	BEIGE	INTACT	Negative	0	mg/cm ²
252	Bldg. J	Bldg Media Center	CABINET	METAL	BLACK	INTACT	Negative	0	mg/cm ²
253	Bldg. J	Bldg Media Center	WALL PANEL	WOOD	BEIGE	INTACT	Negative	0	mg/cm ²
254	Bldg. J	Bldg Media Center	PIPE	METAL	BEIGE	INTACT	Negative	0	mg/cm ²
255	Bldg. J	Bldg Media Center	PIPE	METAL	WHITE	INTACT	Negative	0	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building J
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
256	Bldg. J	KBOW	DOOR	WOOD	BLUE, DARK	INTACT	Negative	0	mg/cm ²
257	Bldg. J	KBOW	DOOR FRAME	WOOD	WHITE	INTACT	Negative	0	mg/cm ²
258	Bldg. J	KBOW	BEAM	WOOD	BEIGE	INTACT	Negative	0.01	mg/cm ²
259	Bldg. J	KBOW	WALL PANEL	VINYL	BEIGE	INTACT	Negative	0	mg/cm ²
260	Bldg. J	KBOW	WALL PANEL	WOOD	GREEN	INTACT	Negative	0.02	mg/cm ²
261	Bldg. J	KBOW	WHITEBOARD	OTHER	WHITE	INTACT	Negative	0	mg/cm ²
262	Bldg. J	KBOW	HVAC	METAL	BEIGE	INTACT	Negative	0.01	mg/cm ²
263	Bldg. J	KBOW	COUNTER	VINYL	BROWN	INTACT	Negative	0	mg/cm ²
264	Bldg. J	KBOW	WINDOW FRAME	WOOD	WHITE	INTACT	Negative	0	mg/cm ²
265	Bldg. J	KBOW	WINDOW FRAME	METAL	WHITE	INTACT	Negative	0.12	mg/cm ²
266	Bldg. J	RESOURCE CORDINATOR	SHELF	VINYL	BLUE, LIGHT	INTACT	Negative	0	mg/cm ²
267	Bldg. J	RESOURCE CORDINATOR	SHELF	VINYL	BROWN	INTACT	Negative	0.23	mg/cm ²
268	Bldg. J	RESOURCE CORDINATOR	DOOR	WOOD	BLUE, DARK	INTACT	Negative	0.01	mg/cm ²
269	Bldg. J	RESOURCE CORDINATOR	DOOR	WOOD	BLUE, DARK	INTACT	Negative	0.7	mg/cm ²
270	Bldg. J	RESOURCE CORDINATOR	DOOR FRAME	METAL	WHITE	INTACT	Negative	0.14	mg/cm ²
272	Bldg. J	CORRIDOR	DOOR	WOOD	BLUE, DARK	INTACT	Negative	0.01	mg/cm ²
273	Bldg. J	CORRIDOR	DOOR FRAME	METAL	WHITE	INTACT	Negative	0	mg/cm ²
274	Bldg. J	CORRIDOR	WALL	PLASTER	BEIGE	INTACT	Negative	0	mg/cm ²
275	Bldg. J	CORRIDOR	COUNTER	VINYL	BEIGE	INTACT	Negative	0	mg/cm ²
276	Bldg. J	CORRIDOR	COUNTER	VINYL	BEIGE	INTACT	Negative	0	mg/cm ²
277	Bldg. J	CORRIDOR	CABINET	VINYL	BROWN	INTACT	Negative	0.21	mg/cm ²
278	Bldg. J	CORRIDOR	CABINET	VINYL	BROWN	INTACT	Negative	0.3	mg/cm ²
279	Bldg. J	CORRIDOR	TRIM	WOOD	WHITE	INTACT	Negative	0.03	mg/cm ²
280	Bldg. J	CORRIDOR	CEILING	FISURED	WHITE	INTACT	Negative	0	mg/cm ²
326	BLDG. J	EXTERIOR	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building J
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
327	BLDG. J	EXTERIOR	PIPE	METAL	TAN	INTACT	Negative	0.2	mg/cm ²
328	BLDG. J	EXTERIOR	COLUMN	CONCRETE	TAN	INTACT	Negative	0	mg/cm ²
329	BLDG. J	EXTERIOR	WALL	WOOD	TAN	INTACT	Negative	0	mg/cm ²
330	BLDG. J	EXTERIOR	FLOOR STRIPE	CONCRETE	RED	INTACT	Negative	0	mg/cm ²
331	BLDG. J	EXTERIOR	FLOOR STRIPE	CONCRETE	YELLOW	INTACT	Negative	0	mg/cm ²
332			CALIBRATE				Positive	1.2	mg/cm ²
334			CALIBRATE				Positive	1.2	mg/cm ²
336			CALIBRATE				Positive	1.2	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**Bowditch Middle School
Building J
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
1			SHUTTER_CAL					1.28	cps
2			CALIBRATE				Positive	1.1	mg/cm ²
3			CALIBRATE				Positive	1.1	mg/cm ²
4			CALIBRATE				Positive	1.2	mg/cm ²
78	J	ROOF	WALL	WOOD	TAN	INTACT	Negative	0	mg/cm ²
79	J	ROOF	EAVE	WOOD	TAN	INTACT	Negative	0	mg/cm ²
80	J	ROOF	FASCIA	WOOD	BLUE	INTACT	Negative	0	mg/cm ²
81	J	ROOF	FLASHING	METAL	TAN	INTACT	Negative	0	mg/cm ²
82	J	ROOF	FLASHING	METAL	BLUE	INTACT	Negative	0	mg/cm ²
83	J	ROOF	GUTTER	METAL	TAN	INTACT	Negative	0	mg/cm ²
84	J	ROOF	PIPE	METAL	TAN	INTACT	Negative	0	mg/cm ²
85	J	ROOF	COLUMN	CONCRETE	TAN	INTACT	Negative	0	mg/cm ²
86	J	ROOF	BEAM BRACKET	CONCRETE	TAN	INTACT	Negative	0.6	mg/cm ²
87	J	ROOF	PIPE	METAL	SILVER	INTACT	Negative	0	mg/cm ²
88			CALIBRATE				Positive	1	mg/cm ²
89			CALIBRATE				Positive	1	mg/cm ²
90			CALIBRATE				Positive	1.1	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

BOWDITCH MIDDLE SCHOOL BUILDINGS D TO J: ROOF



The information contained in these appendices are not stand-alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being

BOWDITCH MIDDLE SCHOOL BUILDING D to J: ROOF HAZARDOUS MATERIALS SUMMARY

Asbestos

- No asbestos was detected in the 7 samples collected and analyzed in 2026 and no asbestos was detected in all samples collected in 2022.

Lead

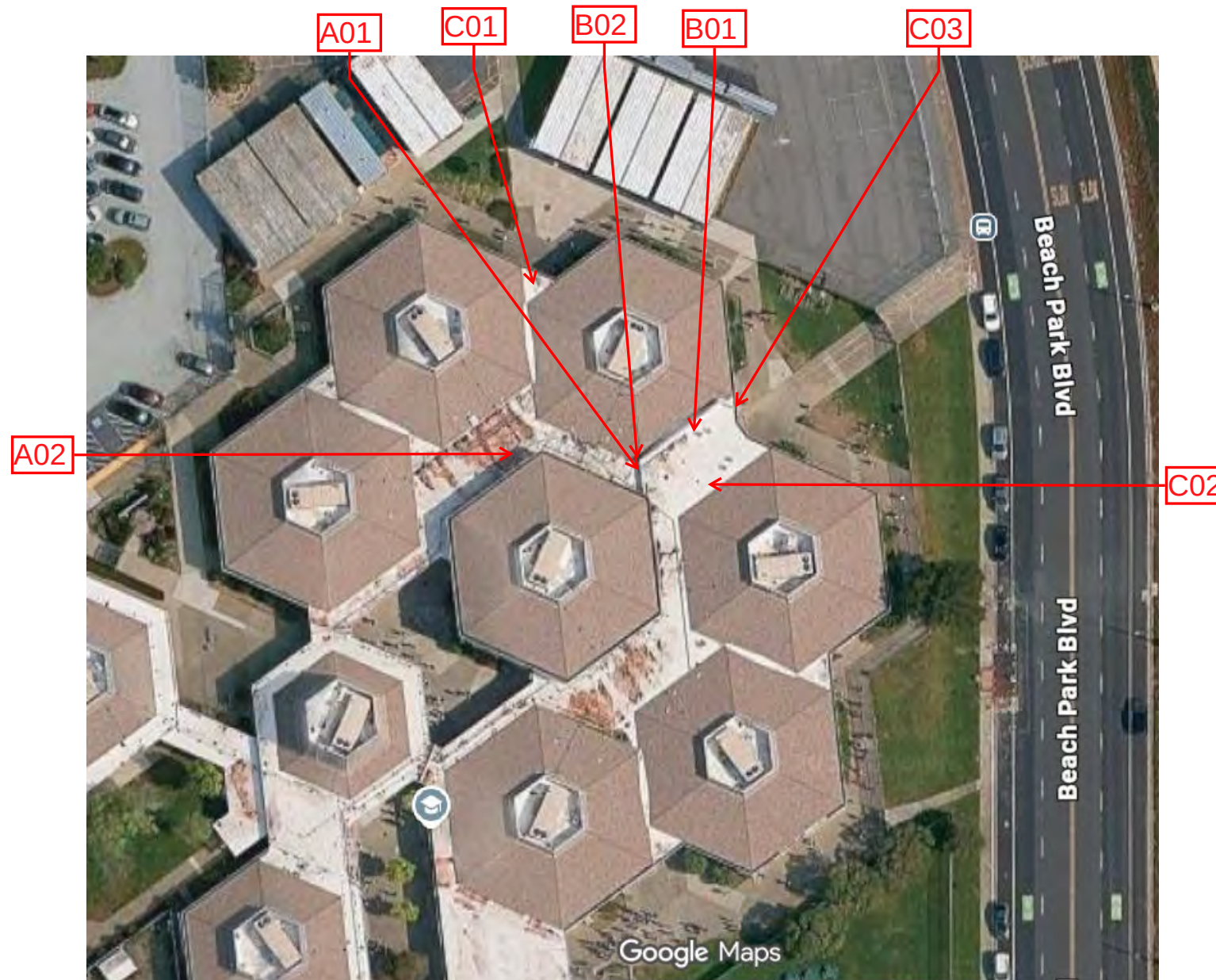
- Lead-based Paint and Lead-Containing Paint was detected in 2022 and is listed in other Hazardous Materials Summaries and XRF Sequential Reports.

Devices with Potential Hazardous Materials

- None

**BOWDITCH MIDDLE SCHOOL
BUILDING D to J: ROOF
ASBESTOS SAMPLING INVENTORY**

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint/Tar	Silver/Black, Pipe	2
B	Board	Gray, Dividing Wall	2
C	Vinyl Roof Cap/Insulation	White/White	3



Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)

NVLAP Lab Code: 101459-0

Vista Environmental Consultants
Chris Burns
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B380925
Date Received: 02/12/26
Date Analyzed: 02/16/26
Date Printed: 02/16/26
First Reported: 02/16/26

Job ID/Site: 261167001; SMFCUSD, BOWDITCH MA, ROOF

SGSFL Job ID: L1161
Total Samples Submitted: 7
Total Samples Analyzed: 7

Date(s) Collected: 02/12/2026

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
ROOF-A-01	12847207						
Layer: Black Tar			ND				
Layer: Silver Non-Fibrous Material			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
ROOF-A-02	12847208						
Layer: Black Tar			ND				
Layer: Silver Non-Fibrous Material			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)							
ROOF-B-01	12847209						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (35 %)							
ROOF-B-02	12847210						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (35 %)							
ROOF-C-01	12847211						
Layer: Grey Non-Fibrous Material			ND				
Layer: White Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace) Synthetic (5 %)							
ROOF-C-02	12847212						
Layer: Grey Non-Fibrous Material			ND				
Layer: White Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace) Synthetic (5 %)							

Client Name: Vista Environmental Consultants

Report Number: B380925

Date Printed: 02/16/26

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
ROOF-C-03	12847213						
Layer: Grey Non-Fibrous Material			ND				
Layer: White Mastic			ND				
Total Percentage Values of Non-Asbestos Fibrous Components:							
Cellulose (Trace)	Synthetic (5 %)						

Maria E. Casper

Maria Casper, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Inhomogeneous samples are separated into homogenous subsamples and analyzed individually. Analytical results and reports are generated by SGS at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGS to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGS. The client is solely responsible for the use and interpretation of test results and reports requested from SGS. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. SGS is not able to assess the degree of hazard resulting from materials analyzed. SGS reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: SMFCUSD

DATE: 2/12/26

LOCATION: BOWDITCH MS

PROJECT NUMBER: 261167001

SAMPLED BY: JR

Roof
(BUILDING #)

CAC OR SST No: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
Roof	A	01	PAINT/TAR	Silver/Black, Pipe		
Roof	A	02	↓	↓		
Roof	B	01	BOARD	Gray, Dividing wall		
Roof	B	02	↓	↓		
Roof	C	01	Vinyl/Roof Gp INSULATION	white/white, 4x wood		
Roof	C	02	↓	↓		
Roof	C	03	↓	↓		
7 Samples						

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com ; nocaladmin@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Luis J. Rocha
TRANSFER SIGNATURE

LUIS J. ROCHA
PRINTED NAME

02/12/26 - 1100
DATE/TIME

2. Received: H
TRANSFER SIGNATURE

Holly Chen
PRINTED NAME

2/12/26 1130 PXT
DATE/TIME

3. _____
TRANSFER SIGNATURE

PRINTED NAME

DATE/TIME

PAGE 1 OF 1

SECTION 02 81 00 HAZARDOUS MATERIALS REMEDIATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. General provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.
- B. Project Documents including all drawings and specifications.
- C. "Hazardous Materials Survey Report, San Mateo Foster City School District, Bowditch Middle School, 1450 Tarpon Street, Foster City CA, 94404" prepared by Vista Environmental Consulting and dated February 16, 2026.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. A general description of the hazardous materials related work associated with this project and including information regarding known and assumed (presumed) existing hazardous materials likely to be impacted and requiring abatement by this project.
 - 2. Requirements and procedures related to asbestos abatement prior to demolition work.
 - 3. Requirements and procedures related to lead-related work prior to demolition work.
 - 4. Requirements for removal, handling, and disposal of any impacted components or equipment containing polychlorinated biphenyls (PCBs), Universal Waste items, refrigerant gasses, low-level radioactive sources, and/or other hazardous materials.
- B. Existing Hazardous Materials Conditions.
 - 1. The Contractor shall take into account the known and presumed existing asbestos, lead-based/lead-containing materials, and other hazardous materials known or assumed present based on existing survey reports and project contract documents.
 - 2. The Contractor's work requires removal of hazardous materials such as asbestos, damaged lead-based and lead-containing paint, and known and presumed PCB ballasts, Universal Waste Items, refrigerant gasses, and low-level radioactive sources. All associated costs of hazardous material remediation, worker protection, clean up and proper disposal are to be included in the bid price submitted.
 - 3. Hazardous materials known or assumed to be present in each building can be found in the above referenced survey report along with additional information regarding approximate locations and approximate quantities present for some materials. For asbestos, the survey report also lists all materials sampled including those that had results of no-detectable asbestos.
 - 4. Any different or newly discovered suspect asbestos-containing materials (ACM) shall be reported immediately to Owner or Owner's Project Manager to allow for evaluation by inspection, sampling, and laboratory analysis prior to disturbance by the Contractor.

C. A brief summary of existing hazardous materials present is as follows:

Building	Asbestos	Lead-Based Paint or Materials	Lead Containing Paint or Materials	Universal Waste, Suspect PCBs, and Other Hazardous Materials
Building D	☒	☒	☒	☒
Building E	☒	☒	☒	☒
Building F	☒	☒	☒	☒
Building G	☒	No	☒	☒
Building H	☒	☒	☒	☒
Building I	☒	☒	☒	☒
Building J	☒	☒	☒	☒
Building D to J: Roof	No	☒	☒	No

Sub-surface asbestos utility piping is assumed throughout the site.

Please see Appendix A for the Hazardous Materials Summary

- a. Refer to referenced hazardous material survey report for more information and coordinate with Project Documents to determine full scope of hazardous material related work including phasing.

D. Summary of Hazardous Materials-Related Work

1. The work of this project involves removal and/or disturbance of ACM, Asbestos-Containing Construction Materials (ACCM), Lead-based Paint (LBP)/Materials (LBM), and/or Lead-Containing Paints (LCP), associated with selective demolition and new construction.
2. It also includes removing assumed PCB lighting ballasts from fluorescent lighting fixtures where they are required to be removed to complete the work and various Universal Waste Items including fluorescent lighting tubes and batteries.
3. Refrigerant gasses shall be properly recycled or disposed of.
4. This project will require Contractor personnel qualified to conduct asbestos related work consisting of Cal/OSHA Class I and II ACM work, ACCM work, lead-related construction work, and other hazardous materials removal work. Review the contract documents in detail and perform a site walk to verify the location and extent of hazardous materials-impacted work and include the cost of that work in the project bid price.
5. All hazardous materials disturbance and removal work shall be undertaken utilizing the proper asbestos, lead-related work, and hazardous material practices, protective measures, controls, waste stream profiling and testing, and waste disposal of properly characterized removed materials as required to support this project.
 - a. Removed friable asbestos wastes greater than 1% asbestos content shall be labeled, shipped under a -hazardous asbestos manifest, and disposed of as a hazardous asbestos waste at a disposal site permitted to accept asbestos wastes.

- b. Removed non-friable asbestos wastes greater than 1% asbestos content shall be labeled with Cal-OSHA warning labels, shipped under a non-hazardous asbestos manifest, and disposed of as a non-hazardous asbestos waste at a disposal site permitted to accept asbestos wastes.
 - c. Loose, peeling, and lead paint chip debris and demolition debris are to be disposed of as RCRA hazardous waste, Non-RCRA (California) Hazardous waste, or construction debris depending on waste stream analytical results. The Contractor is responsible for evaluating each lead-related waste stream and all waste characterization testing required for proper disposal.
 - d. Fluorescent lighting ballasts removed and identified by inspection as presumed PCB ballasts will be properly containerized (e.g. drummed), labeled, manifested as hazardous PCB wastes and properly disposed of. Replace PCB ballasts with non-PCB ballast for light fixtures to be re-used.
 - e. Universal Waste (UW) Items removed, including fluorescent lighting tubes, non-PCB ballasts, non-incandescent lamps, and emergency/exit lighting batteries shall be properly packaged, labeled, manifested and transported for disposal or recycling at a TSD facility permitted to accept the UW.
 - f. Refrigerant gasses and low-level radioactive sources shall be properly recycled or disposed of.
- 6. The Contractor's work scope includes all required lead-related protective measures for Cal/OSHA and Cal/EPA compliance associated with the removal of damaged lead paint or debris on the ground and other demolition activities of this project.
 - 7. Conduct removal of existing ACM, ACCM, LBP and LCP in compliance with Cal/OSHA worker protection rules and this section.
 - 8. Clean up all surfaces affected by selective demolition and other construction activities so as to leave each Work Area and the site free of visible asbestos and lead dust and debris and airborne and surface contamination levels below all recognized hazard thresholds and clearance levels at the end of each day's work shift and prior to any demolition activities.

E. Owner's Observation Service

- 1. The Owner will retain the services of a qualified industrial hygiene consultant certified for asbestos and lead consulting in the State of California, for the purpose of monitoring the day-to-day operations of the Contractor on an ongoing or as needed basis to ensure each Work Area is completed before it is released for unrestricted access by the Owner or others. This consultant shall be referred to as the Owner's Observation Service (Observation Service) and shall have authority to review the Contractor's pre-start, progress, and close out submittals; inspect containments, observe Contractor's procedural compliance, review Work Areas for completion, and conduct clearance inspection and testing with regard to asbestos and, where appropriate, other hazardous material removals and lead-related work.
- 2. The Contractor is obligated to provide notification to the Observation Service at least 48 business hours in advance of starting site work that will disturb asbestos-containing materials to allow for startup inspection and 48 business hours prior to any final clearance inspection and testing. Any delay caused by the failure to give proper notification to the Observation Service shall be at no cost to the Owner.
- 3. Schedule of work shall be an 8-hour shift, (days and times TBD) unless a 48-hour business day notice is given in writing to the Owner and Environmental Consultant and is approved by the Owner.
- 4. It is not the responsibility of the Owner's Environmental Consultant to supervise the Contractor; nor to direct the Contractor's work effort; nor to assume the management of, or responsibility for, the Contractor's health and/or safety practices, nor its waste management, nor its regulatory

compliance. At all times, the Contractor shall be solely responsible for the quality and execution of all phases and aspects of the work.

1.3 REFERENCES:

- A. General: Codes, regulations, and references to hazardous materials abatement work include, but are not limited to the most current versions of the following:
1. California Code of Regulations (CCR):
 - a. Title 8; Article 2.5 Registration Asbestos-Related Work
 - b. Title 8, Section 1529 Construction Safety Orders, Asbestos Regulations
 - c. Title 8, Section 1531 Construction Safety Orders, Respiratory Protection
 - d. Title 8, Section 1532.1 Construction Safety Orders, Lead in Construction
 - e. Title 17, Div. 1, Ch. 8 Accreditation, Certification, and Work Practices for Lead-Based Paint and Lead Hazards
 - f. Title 22, Div. 4.5 Environmental Health Standards for the Management of Hazardous Waste
 2. California Health and Safety Code, Division 20, Chapter 6.5, Section 25143.2 (d)(7), (e), & (f) and sections 25143.9 & 25143.10 – regarding the recycling of CFC or HCFC gases.
 3. Code of Federal Regulations (CFR)
 - a. 40 CFR Part 82 Protection of Stratospheric Ozone: Supplemental Rule Regarding a Recycling Standard Under Section 608 of the Clean Air Act; Final Rule
 - b. 40 CFR Part 61 USEPA NESHAPS Rule
 - c. 40 CFR Part 745 Lead; Identification of Dangerous Levels of Lead
 - d. 40 CFR Part 761, PCB's Manufacturing, Processing, Distribution, in Commerce, and use Prohibitions
 - e. 40 CFR Part 763 USEPA AHERA Asbestos-Containing Materials in School; Final Rule and Notice
 4. Regional Air Quality Management District or Air Pollution Control District rules:
 - a. Bay Area Air Quality Management District (BAAQMD), Regulation 11, Hazardous Pollutants, Rule 2, Asbestos Demolition, Renovation and Manufacturing

1.4 DEFINITIONS

A. Definitions Specific to Work of this Section.

1. Abatement – Procedures to control airborne contaminants and other releases from hazardous material-containing building materials. Includes removal, repair, encapsulation, and enclosure as well as proper packaging, transportation and disposal of removed hazardous materials. Abatement is the process for remediation of hazardous materials.
2. Aggressive Method – Removal of building materials by sanding, abrading, grinding, or other methods that cause intact ACM to become friable.
3. Airlock – A system for permitting ingress and egress with minimum air movement between a contaminated area and an uncontaminated area.
4. Air Monitoring – The process of measuring the air contaminants such as asbestos or lead for measured volume of air collected over the specific period of time being monitored.
5. Amended Water – A water to which a suitable surfactant has been added in accordance with the manufacturer's instructions for the surfactant product.
6. Asbestos – The term asbestos includes chrysotile, amosite, crocidolite, tremolite, anthophyllite, and actinolite.
7. Asbestos Containing Construction Material (ACCM) – Any construction material with an asbestos content of 0.1 percent or greater by weight.

8. Asbestos Containing Material (ACM) – Any material which contains over one percent asbestos as determined by current EPA bulk sample analysis method.
9. Asbestos Fibers – This expression refers to asbestos fibers longer than five micrometers with an aspect ratio of 3:1 or larger under phase contrast microscopy (PCM) analytical procedures.
10. Authorized Visitor – Any Owner Representative, Consultant or Agent and any representative of a regulatory or other agency having jurisdiction over the project and who meets regulatory requirements for entry including training, medical, and proper personal protective equipment use.
11. Class I Asbestos Removal – Class I Asbestos work means activities involving the removal of known or presumed thermal system insulation (TSI) ACM and surfacing ACM.
12. Class II Asbestos Work – Class II Asbestos Work means activities associated with removal of any ACM that is not a Class I surfacing material or thermal system insulation. This includes but is not limited to, removal of resilient flooring materials, roofing materials, asbestos cement products, sealants, caulking materials as well as other ACMs.
13. Class III Asbestos Work – For this project-small scale removal work incidental to support removal or installation of equipment and devices where not intentional asbestos abatement work or removal is involved and the quantity of asbestos waste can be contained in one standard waste bag or glove bag with dimensions no greater than 60"by60" (60 inches square).
14. Class IV Asbestos Work – Work by maintenance and custodial workers that requires contact with ACM but for this section does not involve activities that require disturbance of ACM in a manner that could result in airborne asbestos fiber exposure to the workers.
15. Clean Room – An uncontaminated area or room that is a part of the worker decontamination enclosure with provisions for storage of Workers' street clothes and uncontaminated protective equipment and other uncontaminated materials and equipment.
16. Competent Person – An individual who is capable of identifying asbestos or lead hazards in the workplace and who has sufficient experience and authority to take prompt corrective measures to eliminate them. The Competent Person is required to have been specially trained for the type and level of work to be conducted. The Competent Person is responsible for conducting all required set/containment, in process, completion, and pre-clearance inspections as specified subject to verification and approval by the Owner's Consultant."
17. Critical Barrier – A unit of temporary construction of air-tight and impermeable barrier which provides effective separation between a contained asbestos Work Area and an adjacent, potentially occupied area. Typically consists of at least two layers of plastic sealed to prevent fiber migration into a non-involved adjacent area.
18. Decontamination Enclosure System (Decon Unit) – A series of connected rooms, with air lock doorways between any two adjacent rooms, for the decontamination of Workers and of materials and equipment. The decontamination enclosure system includes an Equipment Room, Shower Room, and Clean Room and must be contiguous to the Work Area Containment. Alternative systems including remote Decon Units and/or showers require prior approval.
19. Differential Pressure Equipment – A portable local exhaust system equipped with HEPA filtration and capable of maintaining a constant, low velocity air flow into a contaminated area from an adjacent uncontaminated area. Also referred to as HEPA Exhaust Units, Negative Air Machines (NAM's) or Negative Pressure Units (NPU's). This equipment must meet the HEPA filter efficiency as an installed system, typically by on-site testing prior to use.
20. Disturbance – Contact with asbestos-containing construction materials that disrupt their matrix (e.g. render friable) and create visible dust or debris and potential airborne fiber exposure. Likewise, for lead-containing paints, coatings or material disturbance means activities that disrupt their matrix and create visible dust or debris and that have potential to create airborne exposures to lead.

21. Encapsulant (sealant) – A liquid material which can be applied to asbestos-containing material or surface and which controls the possible release of asbestos fibers from the material or surface by creating a membrane over the surface (bridging encapsulant), or by penetrating into the material and binding its components together (penetrating encapsulant), or by locking down invisible fibers (lockdown encapsulant).
22. Equipment Room – A contaminated room in the Decon Unit for decontamination of PPE and equipment prior to entering the shower room or area. The Equipment Room or area is supplied with impermeable waste bags or containers for the disposal of contaminated PPE and equipment.
23. Fluorescent lamp or tube – A low pressure electric discharge lamp or light tube that generates ultraviolet light radiation by the passage of an arc through mercury vapor; the inner surface of the light converts some of it to visible light. Spent lighting tubes or lamps of this type typically contain mercury in concentrations exceeding the total threshold limit concentration (TTLC) and/or the soluble threshold limit concentration (STLC) making them a presumptive hazardous waste in California. As a consequence, under current regulation, they require special handling and disposal or recycling.
24. Fluorescent Light Ballast (FLB) – A device that electrically controls fluorescent light fixtures. Most fluorescent ballasts manufactured prior to 1979 include a capacitor containing 0.1 kilograms or less of a dielectric fluid that may contain PCBs. Pre-1979 ballasts may also contain asphalt potting compounds that may contain PCBs. More recently, electronic lighting ballasts that do not contain PCB have come into use.
25. Friable ACM – An ACM that that when dry can be crumbled, pulverized, or reduced to powder by hand pressure. A non-friable ACM that has not been rendered friable by mechanical or other means is considered “intact.”
26. Hazardous Materials – Hazardous materials include, but are not limited to: asbestos-containing construction materials, lead and lead-based paint, PCBs, Universal Waste items, CFC and other refrigerant gasses.
27. Hazardous Waste – Any waste material that is listed or meets the criteria for hazardous waste as set forth in the California Code of Regulations (CCR), Title 22, Chapter 11.
28. HEPA Filter – A high-efficiency particulate air (HEPA) filter capable of trapping and retaining 99.97 percent of particles equal or greater than 0.3 micrometers (micron) in mass median aerodynamic equivalent diameter.
29. HEPA Vacuum Equipment – Vacuuming equipment with a HEPA (UL 586 labeled) filter system. The vacuum must meet the HEPA efficiency of 99.97% efficiency for mono-dispersed 0.3 micron diameter particle as a system. On site testing may be required to verify the vacuum system meets HEPA requirements.
30. Lead-Based Paint (LBP) and Lead-Based Materials (LBM) – Paint and materials that are at least 0.5% lead by weight or 1.0 milligrams of lead per square centimeter of surface area (as measured by XRF lead analyzer). Note: any untested paints or coatings must be presumed to be LBP for structures constructed prior to 1978 and any other untested paints or paints found to have no detectable lead by XRF testing only must be assumed to contain some detectable lead subject to OSHA regulation.
31. Lead-Containing Paint (LCP) – Paint that has detectable lead by weight or lead per square centimeter of surface area as measured by XRF lead analyzer. LCP is assumed present when XRF results are negative and no analytical laboratory analysis for lead has been conducted.
32. Lead Hazardous Waste – Lead-Based Paint waste or other debris that has been classified as hazardous due to the characteristic of toxicity, as determined by testing in accordance with the California Code of Regulations, Title 22, Division 4.5. A lead hazardous waste is any substance(s) at concentrations greater than its listed Soluble Threshold Limit Concentration (STLC) or Total Threshold Limit Concentration (TTLC). The STLC for lead is 5.0 milligrams/liter (mg/l) and the

TTLIC for lead is 1000 ppm lead. If either of these values are exceeded, the lead related waste will need to be further characterized by the Toxicity Characteristic Leaching Procedure (TCLP) in accordance with 40 CFR 261 and possibly other tests prior to disposal as a hazardous waste. Waste testing for proper disposal is the responsibility of the Contractor.

33. Lead Paint Surface Preparation – The process of conducting surface preparation on building surfaces and components that are coated with LCP or LBP in order to remove loose, peeling, flaking paint and associated chalking, if present, to prepare surface for paint stabilization, painting or demolition.
34. Negative Pressure Enclosure (NPE) – An enclosed or contained area of any configuration constructed of polyethylene sheeting (6 mil minimum) with a minimum of four (4) air changes per hour and a negative pressure of -0.02 inches of water as compared to surrounding areas outside the enclosure. NPE conditions must be maintained operational until the Work Area passes final clearance inspection and clearance air testing.
35. Non-Friable Asbestos Material – Material that contains asbestos in which the fibers have been locked in by a bonding agent, coating binder, or other material so that the asbestos is well bound and will not release fibers in excess of the asbestos control limit during any appropriate use, handling, demolition, storage, transportation, processing, or disposal.
36. Non-Hazardous Asbestos Waste – Wastes which are non-friable and/or are below one percent asbestos by weight as determined by objective testing. Both Friable and Non-friable (intact) ACM wastes require OSHA Asbestos Hazard warning labels and disposal at landfills that accept such asbestos wastes.
37. Observation Service – Environmental Consultant hired to conduct various construction administration services including but not limited to compliance observation and air monitoring services on behalf of the Owner. Sometimes referred to as the Owner's Observation Service.
38. Owner – San Mateo Foster City Unified School district
39. Owner's Representative – Representative(s) that the Owner has assigned to manage, oversee, and inspect this project. This may include an architectural and/or construction management consultant hired by Owner to oversee the project and/or the assigned Construction Inspector.
40. PCB Ballast – a FLB known or suspected to contain PCBs. All FLBs must be considered to be PCB ballasts unless they are labeled or marked: "No PCB" by the manufacturer; manufactured in 1979 or later as indicated and verified on a date stamp or code located on the ballast; labeled as an electronic ballast by the manufacturer; or are General Electric HDF ballasts manufactured between 1977 and 1978 and which have a "W" added to their catalogue number on the ballast label.
41. Regulated Area – A Work Area established to demarcate areas where Class I, Class II, and Class III work is conducted and any other Work Area where airborne asbestos is reasonably likely to exceed the Permissible Exposure Limit (PEL). The Regulated Area must include all adjoining areas where asbestos waste and debris may accumulate. Demarcation must include warning signage and must limit access to authorized and properly trained, medically qualified, and protected personnel.
42. Removal – Procedures necessary to remove hazardous materials such as, but not limited to, asbestos or lead from designated areas and to dispose of these materials at an acceptable properly permitted waste disposal site. Removal is one remediation or abatement process.
43. Surfactant – An approved chemical wetting agent added to water to improve penetration.
44. Stabilization – Lead Paint Surface Preparation followed by application of at minimum a primer coat and usually followed by finish coating(s).
45. Three-dimensional: Any remaining material that can be removed from a substrate (concrete, wood etc.) by manual methods (razor scraper, chisel, etc.) and sent to a laboratory for analysis.

46. Trigger Task – Operation, process or task type specifically identified in the OSHA or Cal/OSHA lead standard as a potential lead exposure requiring certain protective measures to be implemented prior to obtaining the results of an initial exposure assessment. Trigger Tasks include, but are not limited to, any of the following task types when materials or paints that contain lead are present and will be disturbed:
 - a. Manual Demolition;
 - b. Manual Scraping or Sanding;
 - c. Heat Gun Application;
 - d. Use of power tools for cleaning or removal;
 - e. Rivet busting;
 - f. Abrasive blasting and cleanup of spent abrasive; &
 - g. Welding, cutting or torch burning.
47. TSD Facility – A US EPA or State EPA permitted facility for transportation, storage and disposal of hazardous wastes.
48. Unclassified Asbestos Work – Work involved in removal or disturbance of construction materials with 1% asbestos or less (e.g. trace asbestos, unless assumed ACM). Composite analysis is not allowed to determine unclassified work. Worker protection and certain work practices are required for this work.
49. Visually Clean – Free of visible dust, paint chips, dirt, debris, or films removable by vacuuming or wet cleaning methods specified. For outside soil or ground cover areas, visually clean shall mean free of visible construction and paint debris, chips or dust distinguishable from the initial soil or ground conditions (after exterior pre-cleaning).
50. Waste Generator Label – Waste Generator Label shall include the Generator's Name, ID Number, Address, and Waste Manifest Number.
51. Wet Cleaning – The process of eliminating asbestos or lead contamination from building surfaces and objects by using cloths, mops, or other cleaning tools that have been dampened with water or water/detergent solution, and by afterwards disposing of these cleaning tools and materials as contaminated waste.
52. Work Area – Designated rooms, spaces, or areas of the project in which hazardous material removal actions are to be undertaken or which may become contaminated as a result of such removal actions during the process and prior to final clean-up and decontamination. A contained Work Area is a Regulated Work Area that has been sealed and equipped with a Decontamination Enclosure System.
53. Worker Decontamination Enclosure System (Worker Decon) – That portion of a Decontamination Enclosure System designed for controlled passage of workers, and other personnel and authorized visitors, typically consisting of a clean room, a shower room, and an equipment room. No eating, drinking or smoking is allowed in Work Areas.

1.5 MATERIALS OWNERSHIP

- A. Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, demolished materials shall become Contractor's property and shall be removed from Project site and properly disposed or recycled.

1.6 SUBMITTALS

- A. Requirements are as set forth in Contract for items required to be submitted under this section. Submit the following:

B. Pre-Start Submittals:

1. Submit the following:

- a. Licensing and Registration for Contractor or Subcontractor responsible for removal of hazardous materials. Submit copies of current and valid:
 - 1) The Contractor's license and Contractor's asbestos certificate issued by the California State Contractor's Licensing Board (CSLB);
 - 2) C-22 Asbestos Abatement Contractor license and Registration for Asbestos-Related Work from the Division of Occupational Safety and Health in accordance with CCR, Title 8, Article 2.5 of the California Administrative Code for any removal or disturbance involving greater than 100 square feet of ACM.
 - 3) The Contractor shall meet the lead certification requirements of Federal EPA Renovation, Repair and Painting Rule 40 CFR 745.80
- b. Personnel Qualifications: Personnel documents required per this section shall be organized by individual employee and include the training, medical, and fit test information described as follows.
- c. Personnel Training:
 - 1) Competent Person/Supervisor (Asbestos - Class I & II Removal Work): Submit training certificates for Contractor/Supervisor Training by Cal/OSHA accredited provider.
 - 2) Workers (Class I & II Removal Work): Submit training certificates for Asbestos Workers Training by Cal/OSHA accredited provider.
 - 3) All removal, manual demolition, and clean-up of lead-based paint and lead-based materials shall be performed by a state-licensed contractor, using CDPH-certified workers with at least one CDPH-certified Supervisor. The supervisor and workers shall also meet the training requirements of Federal EPA Renovation, Repair and Painting Rule 40 CFR 745.80 and Cal/OSHA Hazardous Communications Training.
 - 4) All removal and disturbance of lead-containing materials (not meeting the definition of "lead-based") as defined in 8 CCR 1532.1, may be performed by a state-licensed contractor, using lead-trained workers with certification of training meeting the requirements of 8 CCR 1532.1. In addition:
 - a) Abatement contractor's workforce shall be supervised by experienced persons trained, knowledgeable and qualified in the techniques of lead abatement, handling and disposal of lead-containing and/or lead-contaminated materials, and the subsequent cleaning of contaminated areas.
 - b) For this work the contractor and on-site supervisor shall meet the certification and training requirements of the Federal EPA Renovation, Repair and Painting Rule 40 CFR 745.80 and Cal/OSHA Hazardous Communications Training.
 - 5) All personnel who perform hazardous materials work must be trained and qualified to do so. They must also follow the most current Cal/OSHA regulations 8 CCR 5192, Hazardous Waste Operations and Emergency Response, 8 CCR 5194, Hazard Communications, as well as other applicable federal, state and local laws and regulations, applicable to the hazardous materials work being performed.
- d. Medical Examination:
 - 1) Asbestos-Related Work: Submit proof that personnel who will be performing asbestos-related work have had medical examinations within the last 12 months in conformance with Title 8 CCR; Section 1529 asbestos, and furnish the results of each exam in the form of the physician's written opinion or approval with regard to worker fitness to wear a respirator

and perform asbestos work as applicable. Note: ensure the medical provider has specifically indicated exam was for asbestos (e.g. by checking asbestos box at minimum);

- 2) Lead-Related Work: Submit proof of medical surveillance completion for each worker performing a “trigger task” or any work likely to result in an airborne lead exposure greater than the PEL for lead. Blood lead test results shall be completed within 30 days of startup of site work.
 - e. Respirator Fit Tests: Submit proof that personnel who will be entering asbestos or lead Regulated Areas have had a qualitative respiratory fit test performed within 12 months from the scheduled completion date of the project.
2. Notifications, Communications, and Postings.
 - a. Submit copies of notifications to appropriate government agencies where required, including the following:
 - 1) Cal/OSHA District Office: Submit Temporary Work Site Notification for asbestos removal involving greater than 100 SF of ACCM at least 24 hours in advance of start of asbestos work providing date and time of commencement of work, location, approximate duration, type of business, and kind of job. Likewise, provide copies of lead pre-start notification for lead-related construction work disturbing over 100 SF of LBP at least 24 hours in advance of startup. Provide notification copy(s) to Observation Service in pre-start submittal package.
 - 2) BAAQMD: Submit notification of every renovation involving removal of RACM in amounts greater or equal to 100 SF, 100 LF or 35 cubic feet. Submit according to AQMD regulation at least ten (10) working days prior to start of work and provide copy to the Observation Service with the Pre-Start Submittal.
 - 3) Submit copies of any agency notification amendments and changes on a timely basis with a copy to the Observation Service concurrently.
 3. Respiratory Protection Plan: Submit a written standard operating procedure governing selection, fit-testing, and use of respirators for asbestos, lead, or other airborne toxic material exposure protection.
 4. Detailed Work Plan: Submit a detailed work plan proposed for use in complying with the requirements of these specifications and project plans. The detailed work plan shall include, at a minimum, the following information:
 - a. Procedures: Job-specific procedures proposed for completing the scope of work outlined herein including: means of controlling and containing dust, preventing fugitive emissions, and controlling worker exposure for lead-related construction/demolition work and all Class I and II asbestos removal and clean-up work.
 - 1) Procedures for removal of existing ACM components and finishes to the extent required and/or indicated or inferred in the project documents.
 - 2) Procedures for lead-related construction such as paint chip removal/clean-up and building demolition to contain airborne dust and prevent contamination of the grounds and site from lead contamination above background levels or established hazard threshold concentrations, which ever are lower.
 - 3) Removal and proper inspection, handling, and disposal of any presumed PCB lighting ballasts not found to be PCB free by labeling for any impacted lighting fixtures to be removed and the proper disposal of any Universal Waste items impacted by selective demolition or other disturbance work of this project.
 - 4) Identify and list vendor (or subcontractor) that is a Certified EPA Refrigerant Reclaimer to properly remove and recycle or destroy refrigerant gasses from equipment to be removed.

5. Plan for personnel air monitoring required by law by the Contractor for Worker protection. The Plan shall include, but not be limited to the following:
 - a. Personnel Air Monitoring conducted in strict accordance with 8 CCR 1529 for asbestos and 8CCR 1532.1 for lead-related work. Include calibration data for the secondary standard to be used for air sampling pump calibration on-site. This data must be within six (6) months of the projected completion of this project;
 - b. Name, address, and accreditation and/or certification of laboratory selected by the contractor to analyze air samples;
 - c. The plan shall include a commitment by the Contractor to submit copies of laboratory results with information regarding personnel and operation sampled as required by Cal/OSHA to the Observation Service within 24 hours of receipt of results as and no later than 72 hours from date of the exposure monitoring.
 6. Product Data: Manufacturers product data for all items required for complete and proper execution of the work, this includes product data for all items listed under Part 2 - Products. Product data shall include manufacturing product data, specifications, samples and application instructions, safety data sheets (SDS), and other pertinent information as necessary. Do not send information on products that are not going to be used.
 7. Waste Disposal & Recycling Sites: Submit Name Location, Class, and EPA # for each waste disposal site to be used for any asbestos, lead, PCB, and Universal Wastes Item wastes. Include information on permitted recycling sites or firms to be used for disposal (as applicable).
- C. Daily Submittals: Within 72 hours following the completion of the first Work Shift for each different operation, the Contractor shall submit the following information to the Observation Service by fax or e-mail:
1. OSHA exposure monitoring sample results for asbestos including Eight (8) hour Time Weighted Average (TWA) sampling and results for asbestos excursion limit samples. Sample results must indicate the person sampled, description of work activity, start and stop times, liters per minute, total volume and laboratory result expressed as an eight-hour TWA or excursion limit sample.
 2. OSHA exposure monitoring sample results for 8-hour TWA monitoring of "trigger tasks" associated with lead-related construction/demolition activities.
- D. Close-Out Submittals:
1. Within 10 days of completion of all hazardous material removal work, submit a copy of all outstanding Daily Submittals and one copy of each hazardous waste manifest for asbestos, lead, PCB and other hazardous material to be transported for disposal.
 2. Work Area entry/exit logs completed for each asbestos Work Area and each Work Shift.

1.7 Postings

- A. Before the commencement of any asbestos related construction work at the site, post Cal/OSHA warning signs in and around the Work Area to comply with Cal/OSHA regulations.
- B. Copies of the Contractor's CSLB license (e.g. C-22), Cal/OSHA registration certificate, temporary job-site notifications, pre-start LBP notifications to Cal/OSHA, local agency notifications, emergency exit diagram, emergency phone numbers, Cal/OSHA poster on worker's rights, and worker's compensation poster shall be posted proximate to the entrance to each Work Area.
- C. The Contractor shall have at least one copy of the Contract Documents including project plans and specifications, and a current copy of 8 CCR 1529 & 1532.1.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Submit manufacturer's product data for all items to be used including the items listed below. Include a SDS for each product as applicable.
- B. All materials to be used on the project shall be new in original packages, containers, or bundles bearing the name of the manufacturer and the brand name. Used materials will not be permitted.

2.2 PROTECTIVE COVERING (PLASTIC SHEETING)

- A. For standard containment and critical barrier usage: Polyethylene sheets 6 mil in size to minimize frequency of joints. Fire retardant polyethylene sheeting, approved and listed by the State Fire Marshall per Section 13121 and/or 13144.1 of the California Health and Safety Code, is required for all renovation projects and all abatement in occupied buildings.

2.3 TAPE, ADHESIVES, SEALANTS

- A. Duct tape two inches or wider, or equivalent, capable of sealing joints of adjacent sheets of plastic sheets and for attachment of plastic sheets to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions.
- B. Spray adhesives for sealing polyethylene to polyethylene shall contain no methylene chloride compounds.

2.4 PROTECTIVE PACKAGING

- A. Appropriately labeled 6 mil sealable polyethylene bags as a minimum for asbestos, including non-friable asbestos.
- B. Appropriately labeled, impermeable drum containers with sealable lids for RCRA lead waste.
- C. Bilingual labels (English and Spanish) on waste packages, contaminated material packages and other containers shall be in accordance with EPA or OSHA standards.

2.5 WARNING SIGNS AND LABELS

- A. All warning signs and labels must meet all applicable regulatory requirements for wording, size of lettering, and use of language, pictographs, and graphics to effectively convey the warning. Additional requirements apply for hazardous waste containers and shipments for transportation to disposal sites.
- B. Asbestos Warning signs for Regulated Areas must contain the following wording:

**DANGER
ASBESTOS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
AUTHORIZED PERSONNEL ONLY
WEAR RESPIRATORY PROTECTION AND PROTECTIVE
CLOTHING IN THIS AREA**

- C. Labels for packaging and containers containing ACM waste (friable and non-friable) must contain the following wording:

**DANGER
CONTAINS ASBESTOS FIBERS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
DO NOT BREATHE DUST
AVOID CREATING DUST**

- D. Lead Warning signs for Regulated Areas where exposure is known or anticipated to exceed the PEL must contain the following wording:

**DANGER
LEAD WORK AREA
MAY DAMAGE FERTILITY OR THE UNBORN CHILD
CAUSES DAMAGE TO THE CENTRAL NERVOUS SYSTEM
DO NOT EAT, DRINK, OR SMOKE IN THIS AREA**

2.6 MASTIC REMOVAL SOLVENT (if used)

- A. Mastic removal solvents shall be nonflammable, non-toxic, and non-hazardous as a waste product. Example products include but are not limited to soy based solvent removers such as Blue Bear "Bean-E-Doo" Mastic Remover 500 MR; Sentinel 909 Soy Bean Degreaser and Mastic Remover; or equivalent products.

2.7 ENCAPSULANTS

- A. A suitable clear "lockdown" encapsulant shall be used after removal is completed and has been approved by visual inspection. Acceptable products include but are not limited to Fiberlock PM Post Removal Surface Sealant; Sentinel 811 LE Lockdown Encapsulant; Childers CP 240 Envirocoat Lockdown Encapsulant EN 110; or equivalent,

2.8 SURFACTANT

- A. Surfactant, or wetting agent, for amending water to ensure asbestos is adequately wet during asbestos removal and subsequent waste handling, packaging/containerizing for disposal. Products such as Fiberlock "Penewet", Foster 32-90 Asbestos Removal Surfactant, or equivalent products are acceptable for this purpose.

2.9 PERSONAL PROTECTIVE EQUIPMENT

- A. Personal Protective Equipment shall comply with the requirements of 29 CFR 1910, Subpart 1 and 8CCR 1514, 1515, 1516, and 1517.
- B. Asbestos abatement and lead-related work clothes shall consist of impervious disposable, full-body coveralls, head covers, boots, rubber gloves, and work boots (or sneakers). Sleeves at wrists and cuffs at ankles shall be secure. Disposable coveralls shall be a non-see through type and constructed of DuPont Tyvek, Kimberly-Clark KleenGuard A40 or equivalent fabrics that provide acceptable protection from asbestos and other toxic particulate penetration. Protective clothing for other hazardous chemicals must be impervious to those chemical hazards.
- C. Eye protection and hard hats shall be available and worn when required by applicable safety regulations.

- D. Provide Authorized Visitors with suitable protective clothing, headgear, eye protection, and footwear whenever they enter the Work Area.

2.10 RESPIRATORS

- A. Provide all workers, foremen, superintendents, authorized visitors, and inspectors with personally-issued and marked, clean and sanitized respiratory equipment approved by NIOSH. When respirators with disposable filters are employed, provide sufficient filters for replacement as recommended by manufacturers or this specification. Selection of respirators shall be made according to the Cal/OSHA respirator standard and applicable hazard specific regulation.
- B. The minimum respiratory protection for asbestos abatement for this project is a half mask respirator as long as the airborne levels do not exceed one tenth of the PEL (e.g. 0.01 f/cc) inside the face piece based on the nominal protection factor. A PAPR shall be used for all Class I work. For other airborne chemical hazards, respirator protection shall be selected to ensure protection to below the Action Level (AL) established by regulation or otherwise 1/2 of the applicable PEL in the absence of an AL.

PART 3 - EXECUTION

3.1 PROJECT PROCEDURES

- A. Prior to the start of on-site work, the Contractor shall hold an on-site start-up safety meeting for all contractor and facility employees that addresses at least the following issues specific for the project:
 - 1. Safety and health hazards;
 - 2. Procedures and work practices;
 - 3. Respiratory protection and instruction;
 - 4. Special conditions and/or work requirements.
- B. Worker Protection Procedures
 - 1. Provide Authorized Visitors with suitable protective clothing, respirators, headgear, eye protection, and footwear whenever they are required to enter the Work Area. All provided equipment shall be new or in good working condition.
 - 2. Each worker and Authorized Visitor shall, upon entering the job site: Remove "street clothing" in the clean-change room (or area) and put on a respirator and clean protective clothing before entering the equipment room or Work Area.
 - 3. Prior to leaving the Work Area, remove gross contamination from protective clothing and equipment, proceed to the established Equipment Room or area, remove clothing except respirator and proceed to the shower and/or decontamination area wearing the respirator. Clean the exterior of the respirator before removing it and shower/wash the body with soap and water.
 - 4. Following showering and drying off, each worker shall proceed directly to the clean change room and dress in clean clothes at the end of each day's work, or before eating, smoking, or drinking. Before re-entering the Work Area from the clean-change room, each worker and authorized visitor shall put on a clean respirator and shall dress in clean protective clothing.
 - 5. Contaminated work footwear shall be stored in the equipment room when not in use in the Work Area. Upon completion of asbestos-related work, dispose of any contaminated footwear as asbestos contaminated waste unless fully decontaminated.
 - 6. Workers removing waste containers from the equipment decontamination enclosure shall enter the holding Area from outside wearing a respirator and dressed in clean disposable coveralls. No Worker shall use this system as a means to leave or enter the washroom or the Work Area.

7. Workers shall not eat, drink, smoke, or chew gum or tobacco while in the Work Area.
8. All Workers and Authorized Visitors shall be clean shaven and have no facial hair in the area of respiratory seal. Facial hair is acceptable only when loose fitting powered air hoods or helmet type respirators are used.

3.2 GENERAL WORK AREA PREPARATION FOR ABATEMENT

A. General Requirements (for abatement required interior asbestos disturbance)

1. Prior to Work Area set up and preparation, remove all movable objects that will not disturb existing ACM, ACCM, or asbestos contaminated materials in the process.
2. Isolate, effectively protect, or de-energize electrical power to Work Area. Electrical circuits shall be deactivated if they do not include ground fault circuit interrupters.
3. Provide temporary power and lighting and ensure safe installation of temporary power sources and equipment per applicable electrical code requirements and provide ground fault interrupter circuits with power source for electrical equipment to be used.
4. Provide temporary supply of water adequate for wet removal, cleaning, decontamination and operation of employee shower system (where required).
5. Isolate any heating, cooling, ventilation air systems that enter or penetrate the building within or near the Work Area to prevent contamination of other areas of the structure.
6. Pre-clean and decontaminate all accessible areas prior to hazardous materials remediation, demolition, and/or other construction activities.
7. Cordon off all other accesses to interior Work Areas with barrier tape and warning signage.
8. Seal all remaining openings to Work Area, including but not limited to ducts, grills, diffusers, and any other penetrations of the Work Area, with critical barriers consisting of two layers of plastic sheeting sealed with tape.
9. Isolate non-emergency egress doorways, and access ways with temporary barriers and seal with plastic sheeting.
10. Cover and seal non-movable objects, furniture and equipment not being removed or abated with 6 mil plastic sheeting and duct tape.
11. Seal all exposed joints of conduit, junction boxes, and ductwork with plastic sheeting and duct tape.
12. Install a Decontamination Enclosure System or equivalent prefabricated portable decontamination unit(s) as approved. This will be the primary entrance and exit for the Work Area unless a mini-containment is allowed and used.
13. Install viewing ports of size, quantity, and location to meet local AQMD/APCD requirements and regardless of requirements, at minimum install viewing ports that allow viewing entire Work Area to extent feasible.
14. Install Differential Pressure Equipment for all Class I and Class II asbestos removal operations in accordance with the requirements herein for full containments. Establish a negative pressure of 0.02 inches of water or greater inside the work area containment with respect to the outside and non-involved buildings areas. The interior Class II removal operations require full containments unless approved to be conducted in mini-containments, or if of small scale cut and patch nature, in an approved perimeter monitored Regulated Area.
15. Install an adequate number of HEPA exhaust units to obtain the required negative pressure continuously and achieve at least four (4) air changes per hours inside the containment.

B. Decontamination Enclosure System (General-for asbestos disturbance operations)

1. Construct/install or establish a Decontamination Enclosure System or area for each containment, mini-containment, or Regulated Area, as applicable, for the proper decontamination of workers as they exit the Work Area.
2. Provide separate designated areas or chambers for the removal of contaminated clothing prior to exiting the contaminated Work Area for showering or washing (as appropriate) and for donning clean protective clothing and equipment prior to re-entry of a Regulated Work Area or containment. The decontamination system shall comply with applicable regulation (e.g. Cal/OSHA) taking into account the asbestos removal work class as well as site conditions.
3. In the event that the Decontamination Enclosure System is not contiguous with the Work Area, at minimum a decontamination area must be established at point of egress that allows for removing and disposing of contaminated protective clothing and equipment, staged with amenities for washing hands, respirator, face and other exposed body surfaces to allow exit and donning of clean PPE prior to departing for a remote decontamination system on site. Double suiting procedures are also an option.

C. Pre-start Requirements

1. All required submittals shall have been reviewed and accepted by the Owner or Owner's Observation Service prior to start of site work.
2. Arrangements must be made in advance for secure temporary storage of asbestos wastes on site.
3. Regulated Areas, Containments, and/or Mini-Containments shall be installed, inspected, and approved prior to start of removal work.
4. Arrangements for buildings and asbestos Work Area security during removal operations and including periods when no work is in progress such as off hours, weekends, and holidays must be made and approved by the Owner or Owner's representative.
5. Differential pressure systems (including HEPA units and vacuums), where required, shall be installed, properly operating, and recording properly. All HEPA filtered equipment must be tested and certified on-site prior to use by a third-party vendor.

D. Maintenance of Enclosure Systems

1. Ensure all barrier systems are intact and effectively sealed and taped. Repair damaged or breached barriers and remedy defects and any releases immediately upon discovery.
2. Visually inspect each enclosure at the beginning of each work period and periodically throughout the work shift. Inspections shall include, but not be limited to, the protective critical barriers, decontamination unit barriers, warning signage, and Work Area barrier systems.
3. Use smoke test methods to evaluate the effectiveness of barriers and to check negative pressure prior to starting asbestos removal, at least once daily and, in addition, when directed by the Observation Service.
4. Ensure that all negative pressure containment enclosures meet all Cal/OSHA and AQMD requirements at all times from start up through removal completion and clearance testing.

3.3 PREPARATION FOR CLASS I AND CLASS II ASBESTOS WORK

A. Class I and II Asbestos Removal Work:

1. In addition to general preparation requirements (above):
 - a. For interior Class I and II removal install a negative pressure containment with a contiguous 3-stage worker decontamination enclosure system and HEPA filter exhaust to the exterior. Floors (if applicable) and other non-ACM surfaces shall be protected by at least two 6 mil layers of plastic sheeting. Provide for four air changes per hour and a minimum negative pressure

differential of -0.02 inches of water column relative to the outside. Provide manometer with strip chart for documenting maintenance of negative pressure throughout removal process and until clearance is achieved. Note: Small localized removal areas may be completed in negative pressure mini-containments.

- b. All negative pressure exhaust units shall be HEPA filtered and exhausted to the building exterior. All HEPA exhaust units and vacuums shall be DOP (or equivalent) tested on-site and certified to meet HEPA efficiency standards.
- c. Where only the removal is with glove bags and/or the cut & wrap methods is used, six (6) mil plastic drop sheets extending at least 5 feet on each side of pipe at minimum are required. Likewise, drop sheets shall be used at a minimum for roofing and window caulking/sealant removal.

3.4 ASBESTOS REMOVAL AND DISTURBANCE PROCEDURES-PROHIBITIONS

- A. Prohibitions. The following methods shall not be used to remove or clean up asbestos:
 - 1. Use of high-speed abrasive disc saws without effective vacuum assisted HEPA filtered attachments to capture and remove asbestos dust at point of operation;
 - 2. Compressed air to remove or clean-up asbestos;
 - 3. Dry sweeping or shoveling of asbestos containing dust or debris;
 - 4. Aggressive removal methods where non-aggressive methods are feasible.
 - 5. Where aggressive methods are required, they must include special containment and control procedures acceptable to regulatory agencies and be approved by the Observation Service in advance.

3.5 CLASS I and RACM ASBESTOS REMOVAL OPERATIONS (TSI)

- A. Work Area Containment: Where full containment is use, a contiguous decontamination unit is required. For multiple mini-containments, the contractor shall establish an on-site decontamination unit near the Work Areas and procedures for workers to remove contaminated PPE and decontaminate face, respirator and exposed skin upon egress from each mini-containment.
- B. All removal will be conducted using wet methods using amended water for wetting. Any mechanical cutting tools shall be equipped with an effective HEPA filtered vacuum assist dust collection system.
- C. Promptly place removed wetted debris in labeled asbestos waste bags or containers. Goose neck bags and seal bags and containers with duct tape. Clean exterior of bags and containers by wet wiping and double bag waste bags prior to removal from containment or mini-containment.
- D. Removal of Class I asbestos-containing materials from piping may be accomplished using approved glove bag techniques and modified cut, wrap, and removal techniques where piping is to be demolished or abandoned in place unless otherwise noted in specified areas. In all cases, removal shall be conducted in secondary negative pressure containment or mini-containment.
- E. Upon completion of removal work, clean all surfaces within containment/mini-containment using wet cleaning and HEPA vacuuming until free of all visible dust and debris. When complete, proceed to final cleaning for clearance inspection and testing (below).
- F. Dispose of all ACM under a hazardous asbestos manifest as appropriate and signed by the Owner or Owner's representative. These asbestos waste materials must be bagged, containerized and appropriately labelled.

3.6 CLASS II NON-FRIABLE ASBESTOS REMOVAL OPERATIONS, INTERIOR (MASTICS AND TABLES)

A. Prepare Work Area as indicated above for Class II Operations

1. Conduct all interior removal of ACM in negative pressure full or mini-containments.
2. Mist the material continuously with amended water during removal operations;
3. Remove in as intact manageable large sections to extent feasible using manual methods such as pry bars and other appropriate tools
4. Wet removed ACM contaminated materials with amended water as it is removed and packaged.
5. Complete removal and clean up by cleaning or removing all nails and fasteners, cleaning all junction boxes, conduit, wire, outlets, plumbing, framing and other surfaces in the work area.
6. Place removed asbestos debris in asbestos labeled waste bags or containers or sealed 6 mil poly wrapping with EPA and Cal/OSHA warning labeling as appropriate.
7. Dispose of all ACM under a hazardous or non-hazardous asbestos manifest as appropriate and signed by the Owner or Owner's representative. These asbestos waste materials must be bagged, containerized and appropriately labelled.

3.7 CLASS II NON-FRIABLE ASBESTOS REMOVAL OPERATIONS, EXTERIOR (ROOFING AND WINDOW GLAZING)

- A. Establish a regulated area with barrier tape, asbestos warning signs, and decontamination area surrounding the materials to be removed.
- B. Removal shall be conducted using wet methods and appropriate cutting tools. Remove roofing in small sections and place in waste bags or containers.
- C. Removal of materials shall be conducted using hand scrapers and cutting tools to remove the ACM from the non-ACM substrate materials.
- D. Bag debris in labelled bags as it is removed, HEPA vacuum and wet wipe substrate to remain.
- E. Dispose of non-friable ACM as non-hazardous asbestos waste and transport to waste disposal site with a non-hazardous asbestos manifest signed by the Owner or Owner's representative.

3.8 ACCM CLASS II REMOVAL OPERATIONS (WALLBOARD/JOINT COMPOUND <1.0%)

- A. Establish a regulated area with barrier tape, asbestos warning signs, and decontamination area surrounding the material to be removed.
- B. Mist the material continuously with amended water during removal.
- C. Remove gypsum board in larger sections or pieces where possible. Use pry bars, utility knives, claw hammers and other appropriate tools to loosen and remove wallboard from framing. Remove all wallboard fasteners.
- D. Place removed material in impervious containers or seal in 6 mil plastic wraps with asbestos warning labels as it is removed. Wall insulation shall be placed in same bags or containers as asbestos contaminated waste.
- E. Complete Work Area clean-up including: all remaining nails; framing; electrical junction boxes, outlets, wiring, and conduit; plumbing fixtures, piping, and hanger, and all other surfaces in the work area.

- F. Dispose of all ACCM under a non-hazardous asbestos manifest or construction debris bill of lading as appropriate and signed by the Owner or Owner's representative. These asbestos waste materials must be bagged/containerized and appropriately labelled.

3.9 FINAL ASBESTOS DECONTAMINATION

- A. Previous Work: During completion of the asbestos removal and visible debris clean up work specified, the first cleaning of all exposed equipment and building surfaces must be completed.
- B. Clean any remaining materials and debris exposed by the protective barrier removal. All critical isolation barriers, vents, grilles, diffusers, etc., shall remain in place in interior containments and Regulated Areas;
- C. Clean all exposed surfaces in the Work Area containment or Regulated Area by wet wiping and HEPA vacuuming.
- D. At the completion of this cleaning phase, the Work Area shall be free of all unnecessary equipment/materials and waste containers.
- E. The Contractor's Competent Person/Supervisor shall perform a complete visual inspection of the Work Area under adequate lighting to ensure that the Work Area is free of visible asbestos material, debris, and dust.
- F. Notify the Owner's Observation Service at least 48 business hours in advance of the day and time when the Work Area will be ready for Final Inspection and Clearance.
- G. The Contractor's Competent Person/Supervisor shall ensure that additional cleaning is completed if the area is not acceptably clean. The Contractor shall request a final visual inspection by the Observation Service once the Competent Person/Supervisor concludes that the area is acceptable for final visual inspection.
- H. After written notification to proceed from the Observation Service, encapsulate all surfaces within the Work Area. Allow at least 4 hours for lockdown encapsulate to dry prior to the clearance air testing by the Observation Service.
- I. After written notification from the Observation Service that the abatement was fully completed and successfully decontaminated based on clearance inspection and testing, the Contractor may proceed with removal of critical barriers and containment materials.

3.10 LEAD-RELATED DEMOLITION, PAINT FILM STABILIZATION, AND DEBRIS REMOVAL

- A. General: All painted or coated surfaces at this site are either known or presumed to contain lead subject to worker protection and environmental regulations. Refer to referenced survey documents for additional information regarding lead materials present.
- B. Conduct lead dust and debris generating operations such as but not limited to selective demolition, paint film stabilization, and debris removal within a lead-related construction Regulated Area with warning signage and adequate protection of non-involved surfaces.
- C. Conduct lead-related work in a manner that does not result in building or site contamination. Use wet methods and HEPA vacuuming for dust suppression and clean up during paint/coating disturbing and other lead-related operations.

- D. Use plastic drop sheets and/or containments as necessary to prevent lead contaminated dust and debris from escaping the immediate work area and contaminating other building surfaces and/or exposing non-protected and non-involved workers and personnel.
- E. Clean up any demolition and other lead-related wastes, including any resulting dust, paint chips and painted component debris, so that there are no visible dust or debris and so that all building surfaces upon completion are free of lead dust or surface residue contamination above clearance levels.
- F. The Contractor shall evaluate each demolition and other lead-related debris waste stream and ensure proper disposal of all generated wastes. All waste profiling and testing required by the disposal site is the responsibility of the Contractor.

3.11 LEAD WASTE CLEAN UP AND EVALUATION

- A. Clean up paint chips and debris using wet cleaning methods and HEPA vacuuming. All surfaces shall be free of all visible paint chips, dust and debris. Place all paint chips in a labeled lead waste bag or container.
- B. Place all contaminated cleaning materials, disposal personal protective equipment (PPE) and contaminated plastic in separate waste bags. The Contractor shall assume all lead-related waste is RCRA hazardous waste pending waste test results and the Contractor shall conduct all required waste testing as necessary for waste characterization and disposal at a permitted waste disposal site.
- C. All waste streams and waste categories listed below shall be considered lead hazardous waste until proven otherwise through testing. All testing of demolition wastes is the responsibility of the Contractor.
- D. Based on the testing protocols, any waste greater than or equal to 5 mg/l lead using STLC or any waste greater than or equal to 1000 ppm lead using the TTLC test shall be considered a California hazardous waste. Any waste greater than 5 mg/l based on the federal TCLP test is a RCRA hazardous lead waste. All wastes with a total lead content of 50 ppm lead or higher shall be subjected to TCLP testing for RCRA waste characteristics.
- E. When the TTLC test result is less than 50 ppm lead, no further testing is required for that waste category sampled unless the waste stream or waste generating process changes.

3.12 PCB LIGHTING BALLASTS AND UNIVERSAL WASTE ITEMS

- A. Each fluorescent light fixture ballast to be removed or demolished shall be inspected upon removal for ballast type, labeling and markings. Any non-electronic ballast not labeled "PCB Free" or "No PCB" shall be considered to be a PCB ballast and properly packaged, containerized, and labeled for disposal as a hazardous PCB waste. Replace PCB ballasts with non-PCB ballasts in lighting fixtures to be re-used. Dispose of non-PCB ballasts as electronic waste (Universal Wastes).
- B. Carefully remove all fluorescent lighting tubes and lamps and non-incandescent lamps, such as but not limited to high intensity discharge (HID) lamps, from fixtures to be demolished and package and label for disposal as a Universal Waste at a hazardous waste disposal site or permitted recycler.
- C. Emergency and exit lighting batteries, if removed, shall be packaged, labeled and disposed of as Universal Waste items.

3.13 WASTE PACKAGING & LABELING

- A. All asbestos wastes shall be adequately wetted prior to packaging.
- B. Place asbestos waste in six (6) mil labeled asbestos waste bags or approved equivalent containers.

- C. Goose neck and seal each bag and place in a second clean-labeled bag, drum or impervious container.
- D. Decontaminate waste bags and containers prior to removing from regulated or contained area.
- E. Label all asbestos waste bags or containers with OSHA warning label and other information as required by regulation.
- F. All other hazardous wastes including lead wastes shall be properly labeled and containerized in leak tight containers.

3.14 WASTE DISPOSAL

- A. Waste Transportation: Submit the method of transport of asbestos wastes including name, address, and telephone number of transporters.
- B. Waste Disposal Site(s): Submit for approval the name, class, address, and telephone number of waste disposal site(s) to be utilized.
- C. Waste Manifest: Submit for approval at the pre-construction meeting a filled-out Waste Manifest form. For Waste Manifest purposes, the Generator is the facility of the subject work.
 - 1. Obtain necessary information for this purpose from the Owner or Owner's Representative prior to start up of any abatement or demolition.
 - 2. After removal and packaging waste for shipment, provide a copy of the Waste Manifest to the Observation Service for each required shipment.
 - 3. Use the Uniform Hazardous Waste Manifest for hazardous wastes including friable ACM and lead waste exceeding the hazardous waste characteristics for California and US EPA.
- D. Each waste manifest shall be prepared for the Owner or Owner's Representative's review and approval prior to shipment.
- E. The sealed waste containers shall be delivered to the Contractor's pre-designated, approved hazardous waste treatment and waste disposal site for treatment, destruction, and/or burial in accordance with applicable state and federal regulations.
- F. Notify the Owner's facility representative 48 hours in advance of the time when contaminated materials are to be removed and transported from the site to allow for manifest review and approval.
- G. The Contractor shall be responsible for safe handling and transportation of all waste generated by this Contract to the designated Waste Site and shall hold the Owner and the Owner's agents and consultants harmless for claims, damages, losses, and expenses against the Owner, including attorney's fees arising out of or resulting from asbestos and hazardous materials spills on the site or en route to the disposal site.

3.15 AIR MONITORING & CLEARANCE TESTING

- A. Area Air Monitoring.
 - 1. Throughout the asbestos removal or disturbance process, area air monitoring may be conducted by the Observation Service to ensure work is done in conformance with the fiber concentration limits of these specifications. Likewise, lead removal and demolition Work Areas may be visually inspected and/or air monitored during disturbance activities including removal, treatment or demolition.
 - 2. If results of area air monitoring outside the Work Area are in excess of 0.01 fibers per cubic centimeters of air (f/cc) for asbestos regulated Work Areas or 2 micrograms of airborne lead per cubic meter of air ($\mu\text{g}/\text{m}^3$) for lead work area perimeters or at the project fence line, the Contractor

shall make changes in work procedures to assure compliance with minimum standards. At a minimum, the Contractor shall stop all work and implement additional remedial controls and conduct decontamination as necessary in response to exceeding these limits.

3. Unsatisfactory asbestos results are fiber counts in excess of 0.01 f/cc by PCM Method NIOSH 7400 determined as a TWA outside the Work Area by general air monitoring. All results greater than 0.01 f/cc shall be subject to further laboratory analysis by the TEM method at the Contractor's sole expense.

B. Clearance Inspection and Testing after Lead-Related Demolition or Construction Work

1. All work involving removal or disturbance of LBP or LCP requires cleanup of all resulting impacted Work Area surfaces using HEPA vacuuming and wet methods to achieve surfaces free of visual dust and debris.
2. Upon completion of lead-related demolition or significant disturbance (>2 square feet per Work Area) of lead-based paint, the Owner's Consultant after verifying completion based on a visual inspection for dust and debris, may choose to further verify acceptable cleaning and decontamination by conducting wipe sampling of the affected surfaces for lead containing dust and contamination. Acceptable wipe sampling results are less than 5 micrograms of lead per square foot ($\mu\text{g}/\text{ft}^2$) for floors and less than 40 $\mu\text{g}/\text{ft}^2$ for window sills.
3. All interior building surfaces must be free of lead contamination above the clearance levels at the completion of each abatement or demolition Work Area and also for the entire building at completion of construction before release and return of the building to the Owner. Any additional cleaning and decontamination to meet the lead clearance standards is to be completed by the Contractor at no additional cost to the Owner.

C. Clearance Inspection and Testing after Asbestos Abatement

1. Once the Contractor's Supervisor has inspected the Work Area for completion of removal and decontamination, the Supervisor shall notify the Observation Service that the Work Area is ready for clearance inspection. The Contractor is obligated to notify the Observation Service 48 business hours in advance of the anticipated completion and readiness for inspection.
2. If the Observation Service determines that the removal and decontamination work has not been completely and adequately finished, the Contractor's supervisor will be notified of the unsatisfactory result and the Contractor is obligated to complete the removal and decontamination process until all asbestos has been removed and the entire Work Area is clean and free of all visual dust and debris. Costs for any additional removal and cleaning required to achieve acceptable clearance is to be borne solely by the Contractor.
3. Once the Observation Service verifies that the work including removal and decontamination has been acceptably completed by visual inspection, the Contractor's Supervisor will be notified as such and shall proceed with applying a lock down encapsulant to all surface areas within the Work Area.
4. After allowing for the complete drying of the lock down encapsulant, the Observation Service will conduct clearance air sampling and have the analysis completed by a qualified laboratory. The samples will be Phase Contrast Microscopy (PCM) methodology and analysis. Acceptable results are <0.01 f/cc of air.
5. Results that do not meet the acceptable levels based on selected clearance testing method are failed clearance tests and require the Contractor to re-clean and decontaminate the Work Area and re-apply lock down encapsulant at no additional cost to the Owner and then notify the Observation Service that the Work Area is ready for clearance testing again. The Contractor is solely responsible for any additional labor and analytical costs incurred by the Observation Service due to the failed clearance.

3.16 CLOSE-OUT

- A. All submittal and punch list items must be complete and provided to the Observation Service.

APPENDIX A
HAZARDOUS MATERIALS SUMMARY

BOWDITCH MIDDLE SCHOOL BUILDING D HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/Off-White, Smooth	Interior - Walls and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	24,000 SF
C	Wallboard/Joint Compound	White/Off-White	Interior - w/Vinyl Wall Covering	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
P	Wallboard/Joint Compound	Unfinished	Interior - Plenum	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
AA	Thermal System Insulation	White, Hard Pack, Elbow	Interior - Plenum	Class I	Friable (RACM when Removed)	2 SF
SS	Vinyl Roof Cap	White (Assume)	Exterior – HVAC Pit	Class II	Category I – Non-Friable	500 SF
VV	Insulation	White, Fire Door Ceiling Hatch	Interior – Break Room	Unclassified	Friable (RACM when Removed)	4 SF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
Outside	Beam Bracket	Metal	Tan	Intact	0.27	mg/cm ²
Outside	Pipe	Metal	Tan	Intact	0.05	mg/cm ²
Roof	Flashing	Metal	Brown	Intact	0	mg/cm ²
Preparation	Shelf	Metal	Red	Intact	0.5	mg/cm ²
Preparation	Shelf	Metal	Yellow	Intact	0.5	mg/cm ²

BOWDITCH MIDDLE SCHOOL BUILDING D HAZARDOUS MATERIALS SUMMARY

Room	Component	Substrate	Color	Condition	Pb	Units
Preparation	Shelf	Metal	Blue	Intact	0.03	mg/cm ²
Preparation	Door	Wood	Blue, Dark	Intact	0.5	mg/cm ²
Preparation	Door	Metal	White	Intact	0.07	mg/cm ²
Preparation	Cabinet	Vinyl	Brown	Intact	0.26	mg/cm ²
Corridor	Light Casing	Metal	Gray	Intact	0.05	mg/cm ²
Corridor	Beam	Wood	White	Intact	0.01	mg/cm ²
Corridor	Wall	Drywall	Beige	Intact	0.05	mg/cm ²
RM 2	Door	Drywall	Blue, Dark	Intact	0.14	mg/cm ²
RM 2	Door Frame	Wood	White	Intact	0.02	mg/cm ²
RM 2	Door	Wood	Blue, Dark	Intact	0.26	mg/cm ²
RM 2	Chalkboard	Other	Black	Intact	1.2	mg/cm²
RM 2	Beam Bracket	Metal	Beige	Intact	2.5	mg/cm²

Bold = Lead Based

Devices with Potential Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	172
Metal Halide/Sodium	Universal Waste	7
Batteries: Emergency Lights & Exit Signs	Universal Waste	6
Light Fixture Ballasts	Polychlorinated Biphenyls or E-waste	48

BOWDITCH MIDDLE SCHOOL BUILDING E HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/Off-White, Smooth	Interior - Wall and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	27,500 SF
C	Wallboard/Joint Compound	White/Off-White	Interior - w/Vinyl Wall Covering	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
P	Wallboard/Joint Compound	White/Off-White, Unfinished	Interior-Plenum	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
Q	Roofing Debris	Black, Grey	Exterior - Plenum	Class II	Category I - Non-Friable	200 SF
AA	Thermal System Insulation	White, Hard Pack, Elbow	Interior - Plenum	Class I	Friable (RACM when Removed)	8 SF
VV	Insulation	White, Fire Door Ceiling Hatch	Interior – Break Room	Unclassified	Friable (RACM when Removed)	4 SF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
Outside	Beam Bracket	Metal	Tan	Intact	0.27	mg/cm ²
Outside	Pipe	Metal	Tan	Intact	0.05	mg/cm ²
Roof	Flashing	Metal	Brown	Intact	0	mg/cm ²
Outside	Beam Bracket	Metal	Tan	Intact	3.2	mg/cm²
Roof	Hatch	Metal	Tan	Intact	0.01	mg/cm ²

BOWDITCH MIDDLE SCHOOL BUILDING E HAZARDOUS MATERIALS SUMMARY

Room	Component	Substrate	Color	Condition	Pb	Units
Preparation	Whiteboard	Other	White	Intact	4.6	mg/cm²
Preparation	Beam Bracket	Metal	White	Intact	0.19	mg/cm ²
Preparation	Beam	Wood	White	Intact	0.05	mg/cm ²
Preparation	Door Frame	Metal	White	Intact	0.05	mg/cm ²
Preparation	Door	Wood	Blue, Dark	Intact	0.7	mg/cm ²
RM 10	Door Frame	Wood	Blue, Dark	Intact	0.01	mg/cm ²
RM 10	Door	Wood	Blue, Dark	Intact	0.07	mg/cm ²
RM 10	Door Frame	Wood	White	Intact	0.09	mg/cm ²
Corridor	Cabinet	Metal	Blue, Dark	Intact	0.8	mg/cm ²
Corridor	Beam	Wood	White	Intact	0.01	mg/cm ²
RM 7	Beam Bracket	Metal	Beige	Intact	7.4	mg/cm²
RM 7	Door Frame	Wood	White	Intact	0.14	mg/cm ²
RM 7	Cabinet	Metal	Blue, Dark	Intact	1.5	mg/cm²
STORAGE	Pipe	Metal	White	Intact	0.1	mg/cm ²
Custodian	Sink	Porcelain	White	Intact	3.4	mg/cm²
Custodian	Hvac	Metal	Beige	Intact	0.04	mg/cm ²
Custodian	Pipe	Metal	Beige	Intact	0.07	mg/cm ²
RM 10 Storage	Pipe	Metal	Beige	Intact	0.02	mg/cm ²
RM 10 Storage	Pipe	Metal	Beige	Intact	0.09	mg/cm ²
Preparation	Cabinet	Vinyl	Brown	Intact	0.24	mg/cm ²
Preparation	Cabinet	Vinyl	Brown	Intact	0.26	mg/cm ²
Preparation	Shelf	Metal	Blue	Intact	0.06	mg/cm ²
Preparation	Shelf	Metal	Yellow	Intact	0.5	mg/cm ²
Preparation	Shelf	Metal	Red	Intact	0.5	mg/cm ²

Bold = Lead Based

**BOWDITCH MIDDLE SCHOOL
BUILDING E
HAZARDOUS MATERIALS SUMMARY**

Devices with Potential Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	209
Compact Fluorescent	Universal Waste	3
Metal Halide/Sodium	Universal Waste	4
Batteries: Emergency Lights & Exit Signs	Universal Waste	9
Light Fixture Ballasts	Polychlorinated Biphenyls or E-Waste	67
Smoke Detectors	Low-Level Radiation	8

BOWDITCH MIDDLE SCHOOL BUILDING F HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/Off-White, Smooth	Interior - Walls and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	29,000 SF
C	Wallboard/Joint Compound	White/Off-White	Interior - w/Vinyl Wall Covering	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
AA	Thermal System Insulation	White, Hard Pack, Elbow	Interior - Plenum	Class I	Friable (RACM when Removed)	8 SF
VV	Insulation	White, Fire Door Ceiling Hatch	Interior – Break Room	Unclassified	Friable (RACM when Removed)	4 SF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
Outside	Pipe	Metal	Tan	Intact	0.09	mg/cm ²
Outside	Beam Bracket	Metal	Tan	Intact	5.5	mg/cm²
Roof	Beam Bracket	Metal	Tan	Intact	1.2	mg/cm²
Preparation	Cabinet	Vinyl	Brown	Intact	0.4	mg/cm ²
Preparation	Shelf	Metal	Blue	Intact	0.04	mg/cm ²
Preparation	Shelf	Metal	Green	Intact	0.4	mg/cm ²
Preparation	Shelf	Metal	Red	Intact	0.5	mg/cm ²
Preparation	Cabinet	Metal	Beige	Intact	0.01	mg/cm ²
Preparation	Cabinet	Vinyl	Brown	Intact	0.27	mg/cm ²
Corridor	Column	Wood	White	Intact	0.01	mg/cm ²
RM 15	Door Frame	Metal	White	Intact	0.06	mg/cm ²
Electrical	Pipe	Metal	Gray	Intact	0.4	mg/cm ²

BOWDITCH MIDDLE SCHOOL BUILDING F HAZARDOUS MATERIALS SUMMARY

Room	Component	Substrate	Color	Condition	Pb	Units
Storage 2	HVAC	Metal	Beige	Intact	0.03	mg/cm ²
Storage 2	Shelf	Metal	Beige	Intact	0.01	mg/cm ²
Storage 2	Cabinet	Vinyl	Brown	Intact	0.19	mg/cm ²
Storage 1	Cabinet	Vinyl	Brown	Intact	0.04	mg/cm ²
Storage 1	Pipe	Metal	Beige	Intact	0.07	mg/cm ²
Storage 1	Hvac	Metal	Beige	Intact	0.07	mg/cm ²
Storage 1	Beam Bracket	Metal	Beige	Intact	3.1	mg/cm²

Bold = Lead Based

Devices with Potential Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	195
Compact Fluorescent	Universal Waste	2
Metal Halide/Sodium	Universal Waste	2
Batteries: Emergency Lights & Exit Signs	Universal Waste	6
Light Fixture Ballasts	Polychlorinated Biphenyls or E-Waste	64
Smoke Detectors	Low-Level Radiation	14

BOWDITCH MIDDLE SCHOOL BUILDING G HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/White	Interior - Walls and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	29,500 SF
M	Cement	Black	Interior - Table Top, Counter	Class II	Category II - Non-Friable	500 SF
P	Thermal System Insulation	Hard Pack, Elbows (Assumed)	Interior - Plenum	Class I	Friable (RACM when Removed)	15 SF
R	Wallboard/Joint Compound	Unfinished (Assumed)	Interior - Plenum	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
S	Mastic	Tan, Duct (Assumed)	Interior - Plenum	Class II	Category I - Non-Friable	50 SF
ZZ	Insulation	White, Fire Door Ceiling Hatch	Interior – Break Room	Unclassified	Friable (RACM when Removed)	4 SF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
Inside	Door	Metal	White	Intact	0.1	mg/cm ²
Inside	Door	Metal	White	Intact	0.1	mg/cm ²
Inside	Counter	Other	Blue	Intact	0.1	mg/cm ²
Inside	Counter	Other	Black	Intact	0.1	mg/cm ²
Inside	Shelf	Other	Blue	Intact	0.1	mg/cm ²
Inside	Shelf	Other	Blue	Intact	0.2	mg/cm ²
Inside	Other	Other	White	Intact	0.1	mg/cm ²
Inside	Other	Other	White	Intact	0.2	mg/cm ²

BOWDITCH MIDDLE SCHOOL BUILDING G HAZARDOUS MATERIALS SUMMARY

Room	Component	Substrate	Color	Condition	Pb	Units
Inside	Cabinet	Metal	Dk-Blue	Intact	0.7	mg/cm ²
Inside	Cabinet	Metal	Dk-Blue	Intact	0.9	mg/cm ²
Inside	Cabinet	Metal	White	Intact	0.1	mg/cm ²
Inside	Cabinet	Metal	Green	Intact	0.1	mg/cm ²
Inside	HVAC	Metal	White	Intact	0.1	mg/cm ²
Inside	HVAC	Metal	White	Intact	0.1	mg/cm ²
Inside	Other	Metal	White	Intact	0.5	mg/cm ²
Inside	Other	Metal	White	Intact	0.4	mg/cm ²
Exterior	Pipe	Metal	Tan	Intact	0.2	mg/cm ²
Exterior	Sign	Metal	White	Intact	0.01	mg/cm ²

Devices with Potential Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	154
Metal Halide/Sodium	Universal Waste	1
Batteries: Emergency Lights & Exit Signs	Universal Waste	6
Light Fixture Ballasts	Polychlorinated Biphenyls or E-Waste	65
Smoke Detectors	Low-Level Radiation	11

BOWDITCH MIDDLE SCHOOL BUILDING H HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/White	Interior - Walls and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	25,800 SF
C	Wallboard/Joint Compound	White/White	Interior - w/Vinyl Wall Covering	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
P	Thermal System Insulation	Hard Pack, Elbows	Interior	Class I	Friable (RACM when Removed)	15 SF
R	Wallboard/Joint Compound	White/White, Unfinished (Damaged)	Interior - Plenum	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
UU	Insulation	White, Fire Door Ceiling Hatch	Interior – Break Room	Unclassified	Friable (RACM when Removed)	4 SF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
Inside	Cabinet	Other	Brown	Intact	0.3	mg/cm ²
Inside	Shelf	Metal	Green	Intact	0.8	mg/cm ²
Inside	Shelf	Metal	Red	Intact	0.8	mg/cm ²
Inside	Cabinet	Metal	White	Intact	0.1	mg/cm ²
Inside	Cabinet	Metal	Red	Intact	0.1	mg/cm ²
Custodian	Wall	Drywall	White	Intact	0.11	mg/cm ²
Custodian	Door Frame	Wood	White	Intact	0.1	mg/cm ²

**BOWDITCH MIDDLE SCHOOL
BUILDING H
HAZARDOUS MATERIALS SUMMARY**

Room	Component	Substrate	Color	Condition	Pb	Units
Custodian	Door	Wood	Blue, Dark	Intact	0.21	mg/cm ²
Custodian	Sink	Porcelain	White	Intact	15.7	mg/cm²
Custodian	Pipe	Metal	Brown	Intact	0.08	mg/cm ²
Custodian	Pipe	Metal	White	Intact	0.14	mg/cm ²
Custodian	Hvac	Metal	White	Intact	0.01	mg/cm ²
Rm 24	Ceiling	Fissured	White	Intact	0.01	mg/cm ²
Rm 24	Floor Outlet	Metal	Varnish	Intact	9.6	mg/cm²
Corridor	Wall Panel	Laminate	Beige	Intact	0.01	mg/cm ²
Corridor	Beam	Wood	White	Intact	0.01	mg/cm ²
Rm 20	Cabinet	Metal	Blue, Dark	Intact	0.6	mg/cm ²
Storage	Pipe	Metal	White	Intact	0.23	mg/cm ²
Storage	Parking Stripe	Metal	White	Intact	0.14	mg/cm ²
Preparation	Shelf	Metal	Blue	Intact	0.13	mg/cm ²
Preparation	Shelf	Metal	Red	Intact	0.6	mg/cm ²
Preparation	Shelf	Metal	Green	Intact	0.4	mg/cm ²
Preparation	Cabinet	Vinyl	Brown	Intact	0.26	mg/cm ²
Preparation	Cabinet	Vinyl	Brown	Intact	0.3	mg/cm ²
Rm 21	Floor Outlet	Metal	Varnish	Intact	6.9	mg/cm²
Exterior	Light Case	Metal	White	Intact	0.01	mg/cm ²

Bold = Lead Based

Devices with Potential Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	244
Compact Fluorescent	Universal Waste	2
Metal Halide/Sodium	Universal Waste	3
Batteries: Emergency Lights & Exit Signs	Universal Waste	6
Light Fixture Ballasts	Polychlorinated Biphenyls or E-Waste	88
Smoke Detectors	Low-Level Radiation	12

BOWDITCH MIDDLE SCHOOL BUILDING I HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/White, Smooth	Interior - Walls and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	23,000 SF
C	Wallboard/Joint Compound	White/Beige	Interior - w/Vinyl Wall Covering	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
P	Thermal System Insulation	White-Grey, Hard Pack, Elbows	Interior - Plenum	Class I	Friable (RACM when Removed)	15 SF
R	Wallboard/Joint Compound	White/Beige, Unfinished (Damaged)	Interior - Plenum	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
S	Mastic	Tan, Duct	Interior - Plenum	Class II	Category I - Non-Friable	50 SF
VV	Insulation	White, Fire Door Ceiling Hatch	Interior – Break Room	Unclassified	Friable (RACM when Removed)	4 SF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
29	Door	Wood	Blue, Dark	Intact	0.6	mg/cm ²
29	Door Frame	Metal	White	Intact	0.09	mg/cm ²
29	Whiteboard	Other	White	Intact	0.01	mg/cm ²
29	Window Frame	Wood	White	Intact	0.18	mg/cm ²
25	Door Frame	Wood	White	Intact	0.16	mg/cm ²

BOWDITCH MIDDLE SCHOOL BUILDING I HAZARDOUS MATERIALS SUMMARY

Room	Component	Substrate	Color	Condition	Pb	Units
25	Whiteboard	Other	White	Intact	4.8	mg/cm²
25	Column	Wood	Beige	Intact	0.01	mg/cm ²
27	Door	Wood	Blue, Dark	Intact	0.4	mg/cm ²
27	Window Frame	Wood	White	Intact	0.03	mg/cm ²
Storage Closet	Pipe	Wood	White	Intact	0.04	mg/cm ²
Storage	Cabinet	Metal	Blue, Dark	Intact	0.8	mg/cm ²
Electrical	Pipe	Metal	White	Intact	1.8	mg/cm²
Electrical	Cabinet	Metal	White	Intact	0.03	mg/cm ²
Electrical	Cabinet	Metal	Gray	Intact	0.13	mg/cm ²
Electrical	Baseboard	Wood	Brown	Intact	0.02	mg/cm ²
Exterior	Pole	Metal	Tan	Intact	0.04	mg/cm ²
Exterior	Column	Concrete	Tan	Intact	0.01	mg/cm ²
Exterior	Floor	Concrete	Red	Intact	0.01	mg/cm ²
Exterior	Beam Bracket	Metal	Tan	Intact	0.21	mg/cm ²

Bold = Lead Based

Devices with Potential Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	148
Metal Halide/Sodium	Universal Waste	2
Batteries: Emergency Lights & Exit Signs	Universal Waste	5
Light Fixture Ballasts	Polychlorinated Biphenyls or E-Waste	51
Smoke Detectors	Low-Level Radiation	12

BOWDITCH MIDDLE SCHOOL BUILDING J HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/Off-White, Smooth	Interior - Wall and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	31,750 SF
C	Wallboard/Joint Compound	White/Off-White	Interior - w/Vinyl Wall Covering	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
L	Mastic	Tan, Duct	Interior - Plenum	Class II	Category I - Non-Friable	80 SF
GG	Glazing	Grey, Window	Interior/Exterior	Class II	Category I - Non-Friable	400 LF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
Bldg Media Center	Door	Wood	Blue, Dark	Intact	0.4	mg/cm ²
Bldg Media Center	Door Frame	Wood	White	Intact	0.05	mg/cm ²
Bldg Media Center	Door	Metal	White	Intact	0.27	mg/cm ²
Bldg Media Center	Wall	Other	Beige	Intact	0.9	mg/cm ²
Bldg Media Center	Wall Panel	Vinyl	Beige	Intact	0.01	mg/cm ²
Bldg Media Center	Stairs	Wood	Beige	Intact	0.01	mg/cm ²
Bldg Media Center	Counter	Wood	Blue, Dark	Intact	0.01	mg/cm ²
Bldg Media Center	Wall Panel	Vinyl	Beige	Intact	1	mg/cm²
Bldg Media Center	Cabinet	Metal	Blue, Dark	Intact	0.7	mg/cm ²
Bldg Media Center	Cabinet	Wood	Blue, Dark	Intact	0.04	mg/cm ²
Bldg Media Center	Shelf	Wood	Blue, Dark	Intact	0.02	mg/cm ²
Bldg Media Center	Beam Bracket	Metal	White	Intact	4.7	mg/cm²

BOWDITCH MIDDLE SCHOOL BUILDING J HAZARDOUS MATERIALS SUMMARY

Room	Component	Substrate	Color	Condition	Pb	Units
Bldg Media Center	Counter	Vinyl	Brown	Intact	0.05	mg/cm ²
Kbow	Beam	Wood	Beige	Intact	0.01	mg/cm ²
Kbow	Wall Panel	Wood	Green	Intact	0.02	mg/cm ²
Kbow	Hvac	Metal	Beige	Intact	0.01	mg/cm ²
Kbow	Window Frame	Metal	White	Intact	0.12	mg/cm ²
Resource Coordinator	Shelf	Vinyl	Brown	Intact	0.23	mg/cm ²
Resource Coordinator	Door	Wood	Blue, Dark	Intact	0.01	mg/cm ²
Resource Coordinator	Door	Wood	Blue, Dark	Intact	0.7	mg/cm ²
Resource Coordinator	Door Frame	Metal	White	Intact	0.14	mg/cm ²
Corridor	Door	Wood	Blue, Dark	Intact	0.01	mg/cm ²
Corridor	Cabinet	Vinyl	Brown	Intact	0.21	mg/cm ²
Corridor	Cabinet	Vinyl	Brown	Intact	0.3	mg/cm ²
Corridor	Trim	Wood	White	Intact	0.03	mg/cm ²
Exterior	Pipe	Metal	Tan	Intact	0.2	mg/cm ²

Bold = Lead Based

Devices with Potential Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	261
Metal Halide/Sodium	Universal Waste	9
Batteries: Emergency Lights & Exit Signs	Universal Waste	2
Light Fixture Ballasts	Polychlorinated Biphenyls or E-Waste	84

BOWDITCH MIDDLE SCHOOL BUILDING D to J: ROOF HAZARDOUS MATERIALS SUMMARY

Asbestos

- No asbestos was detected in the 7 samples collected and analyzed in 2026 and no asbestos was detected in all samples collected in 2022.

Lead

- Lead-based Paint and Lead-Containing Paint was detected in 2022 and is listed in other Hazardous Materials Summaries and XRF Sequential Reports.

Devices with Potential Hazardous Materials

- None

**SECTION 02 81 00
HAZARDOUS MATERIALS REMEDIATION**

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. General provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.
- B. Project Documents including all drawings and specifications.
- C. "Hazardous Materials Survey Report, San Mateo Foster City School District, Bowditch Middle School, 1450 Tarpon Street, Foster City CA, 94404" prepared by Vista Environmental Consulting and dated February 16, 2026.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. A general description of the hazardous materials related work associated with this project and including information regarding known and assumed (presumed) existing hazardous materials likely to be impacted and requiring abatement by this project.
 - 2. Requirements and procedures related to asbestos abatement prior to demolition work.
 - 3. Requirements and procedures related to lead-related work prior to demolition work.
 - 4. Requirements for removal, handling, and disposal of any impacted components or equipment containing polychlorinated biphenyls (PCBs), Universal Waste items, refrigerant gasses, low-level radioactive sources, and/or other hazardous materials.
- B. Existing Hazardous Materials Conditions.
 - 1. The Contractor shall take into account the known and presumed existing asbestos, lead-based/lead-containing materials, and other hazardous materials known or assumed present based on existing survey reports and project contract documents.
 - 2. The Contractor's work requires removal of hazardous materials such as asbestos, damaged lead-based and lead-containing paint, and known and presumed PCB ballasts, Universal Waste Items, refrigerant gasses, and low-level radioactive sources. All associated costs of hazardous material remediation, worker protection, clean up and proper disposal are to be included in the bid price submitted.
 - 3. Hazardous materials known or assumed to be present in each building can be found in the above referenced survey report along with additional information regarding approximate locations and approximate quantities present for some materials. For asbestos, the survey report also lists all materials sampled including those that had results of no-detectable asbestos.
 - 4. Any different or newly discovered suspect asbestos-containing materials (ACM) shall be reported immediately to Owner or Owner's Project Manager to allow for evaluation by inspection, sampling, and laboratory analysis prior to disturbance by the Contractor.

C. A brief summary of existing hazardous materials present is as follows:

Building	Asbestos	Lead-Based Paint or Materials	Lead Containing Paint or Materials	Universal Waste, Suspect PCBs, and Other Hazardous Materials
Building D	☒	☒	☒	☒
Building E	☒	☒	☒	☒
Building F	☒	☒	☒	☒
Building G	☒	No	☒	☒
Building H	☒	☒	☒	☒
Building I	☒	☒	☒	☒
Building J	☒	☒	☒	☒
Building D to J: Roof	No	☒	☒	No

Sub-surface asbestos utility piping is assumed throughout the site.

Please see Appendix A for the Hazardous Materials Summary

- a. Refer to referenced hazardous material survey report for more information and coordinate with Project Documents to determine full scope of hazardous material related work including phasing.

D. Summary of Hazardous Materials-Related Work

1. The work of this project involves removal and/or disturbance of ACM, Asbestos-Containing Construction Materials (ACCM), Lead-based Paint (LBP)/Materials (LBM), and/or Lead-Containing Paints (LCP), associated with selective demolition and new construction.
2. It also includes removing assumed PCB lighting ballasts from fluorescent lighting fixtures where they are required to be removed to complete the work and various Universal Waste Items including fluorescent lighting tubes and batteries.
3. Refrigerant gasses shall be properly recycled or disposed of.
4. This project will require Contractor personnel qualified to conduct asbestos related work consisting of Cal/OSHA Class I and II ACM work, ACCM work, lead-related construction work, and other hazardous materials removal work. Review the contract documents in detail and perform a site walk to verify the location and extent of hazardous materials-impacted work and include the cost of that work in the project bid price.
5. All hazardous materials disturbance and removal work shall be undertaken utilizing the proper asbestos, lead-related work, and hazardous material practices, protective measures, controls, waste stream profiling and testing, and waste disposal of properly characterized removed materials as required to support this project.
 - a. Removed friable asbestos wastes greater than 1% asbestos content shall be labeled, shipped under a -hazardous asbestos manifest, and disposed of as a hazardous asbestos waste at a disposal site permitted to accept asbestos wastes.

- b. Removed non-friable asbestos wastes greater than 1% asbestos content shall be labeled with Cal-OSHA warning labels, shipped under a non-hazardous asbestos manifest, and disposed of as a non-hazardous asbestos waste at a disposal site permitted to accept asbestos wastes.
 - c. Loose, peeling, and lead paint chip debris and demolition debris are to be disposed of as RCRA hazardous waste, Non-RCRA (California) Hazardous waste, or construction debris depending on waste stream analytical results. The Contractor is responsible for evaluating each lead-related waste stream and all waste characterization testing required for proper disposal.
 - d. Fluorescent lighting ballasts removed and identified by inspection as presumed PCB ballasts will be properly containerized (e.g. drummed), labeled, manifested as hazardous PCB wastes and properly disposed of. Replace PCB ballasts with non-PCB ballast for light fixtures to be re-used.
 - e. Universal Waste (UW) Items removed, including fluorescent lighting tubes, non-PCB ballasts, non-incandescent lamps, and emergency/exit lighting batteries shall be properly packaged, labeled, manifested and transported for disposal or recycling at a TSD facility permitted to accept the UW.
 - f. Refrigerant gasses and low-level radioactive sources shall be properly recycled or disposed of.
- 6. The Contractor's work scope includes all required lead-related protective measures for Cal/OSHA and Cal/EPA compliance associated with the removal of damaged lead paint or debris on the ground and other demolition activities of this project.
 - 7. Conduct removal of existing ACM, ACCM, LBP and LCP in compliance with Cal/OSHA worker protection rules and this section.
 - 8. Clean up all surfaces affected by selective demolition and other construction activities so as to leave each Work Area and the site free of visible asbestos and lead dust and debris and airborne and surface contamination levels below all recognized hazard thresholds and clearance levels at the end of each day's work shift and prior to any demolition activities.

E. Owner's Observation Service

- 1. The Owner will retain the services of a qualified industrial hygiene consultant certified for asbestos and lead consulting in the State of California, for the purpose of monitoring the day-to-day operations of the Contractor on an ongoing or as needed basis to ensure each Work Area is completed before it is released for unrestricted access by the Owner or others. This consultant shall be referred to as the Owner's Observation Service (Observation Service) and shall have authority to review the Contractor's pre-start, progress, and close out submittals; inspect containments, observe Contractor's procedural compliance, review Work Areas for completion, and conduct clearance inspection and testing with regard to asbestos and, where appropriate, other hazardous material removals and lead-related work.
- 2. The Contractor is obligated to provide notification to the Observation Service at least 48 business hours in advance of starting site work that will disturb asbestos-containing materials to allow for startup inspection and 48 business hours prior to any final clearance inspection and testing. Any delay caused by the failure to give proper notification to the Observation Service shall be at no cost to the Owner.
- 3. Schedule of work shall be an 8-hour shift, (days and times TBD) unless a 48-hour business day notice is given in writing to the Owner and Environmental Consultant and is approved by the Owner.
- 4. It is not the responsibility of the Owner's Environmental Consultant to supervise the Contractor; nor to direct the Contractor's work effort; nor to assume the management of, or responsibility for, the Contractor's health and/or safety practices, nor its waste management, nor its regulatory

compliance. At all times, the Contractor shall be solely responsible for the quality and execution of all phases and aspects of the work.

1.3 REFERENCES:

- A. General: Codes, regulations, and references to hazardous materials abatement work include, but are not limited to the most current versions of the following:
1. California Code of Regulations (CCR):
 - a. Title 8; Article 2.5 Registration Asbestos-Related Work
 - b. Title 8, Section 1529 Construction Safety Orders, Asbestos Regulations
 - c. Title 8, Section 1531 Construction Safety Orders, Respiratory Protection
 - d. Title 8, Section 1532.1 Construction Safety Orders, Lead in Construction
 - e. Title 17, Div. 1, Ch. 8 Accreditation, Certification, and Work Practices for Lead-Based Paint and Lead Hazards
 - f. Title 22, Div. 4.5 Environmental Health Standards for the Management of Hazardous Waste
 2. California Health and Safety Code, Division 20, Chapter 6.5, Section 25143.2 (d)(7), (e), & (f) and sections 25143.9 & 25143.10 – regarding the recycling of CFC or HCFC gases.
 3. Code of Federal Regulations (CFR)
 - a. 40 CFR Part 82 Protection of Stratospheric Ozone: Supplemental Rule Regarding a Recycling Standard Under Section 608 of the Clean Air Act; Final Rule
 - b. 40 CFR Part 61 USEPA NESHAPS Rule
 - c. 40 CFR Part 745 Lead; Identification of Dangerous Levels of Lead
 - d. 40 CFR Part 761, PCB's Manufacturing, Processing, Distribution, in Commerce, and use Prohibitions
 - e. 40 CFR Part 763 USEPA AHERA Asbestos-Containing Materials in School; Final Rule and Notice
 4. Regional Air Quality Management District or Air Pollution Control District rules:
 - a. Bay Area Air Quality Management District (BAAQMD), Regulation 11, Hazardous Pollutants, Rule 2, Asbestos Demolition, Renovation and Manufacturing

1.4 DEFINITIONS

A. Definitions Specific to Work of this Section.

1. Abatement – Procedures to control airborne contaminants and other releases from hazardous material-containing building materials. Includes removal, repair, encapsulation, and enclosure as well as proper packaging, transportation and disposal of removed hazardous materials. Abatement is the process for remediation of hazardous materials.
2. Aggressive Method – Removal of building materials by sanding, abrading, grinding, or other methods that cause intact ACM to become friable.
3. Airlock – A system for permitting ingress and egress with minimum air movement between a contaminated area and an uncontaminated area.
4. Air Monitoring – The process of measuring the air contaminants such as asbestos or lead for measured volume of air collected over the specific period of time being monitored.
5. Amended Water – A water to which a suitable surfactant has been added in accordance with the manufacturer's instructions for the surfactant product.
6. Asbestos – The term asbestos includes chrysotile, amosite, crocidolite, tremolite, anthophyllite, and actinolite.
7. Asbestos Containing Construction Material (ACCM) – Any construction material with an asbestos content of 0.1 percent or greater by weight.

8. Asbestos Containing Material (ACM) – Any material which contains over one percent asbestos as determined by current EPA bulk sample analysis method.
9. Asbestos Fibers – This expression refers to asbestos fibers longer than five micrometers with an aspect ratio of 3:1 or larger under phase contrast microscopy (PCM) analytical procedures.
10. Authorized Visitor – Any Owner Representative, Consultant or Agent and any representative of a regulatory or other agency having jurisdiction over the project and who meets regulatory requirements for entry including training, medical, and proper personal protective equipment use.
11. Class I Asbestos Removal – Class I Asbestos work means activities involving the removal of known or presumed thermal system insulation (TSI) ACM and surfacing ACM.
12. Class II Asbestos Work – Class II Asbestos Work means activities associated with removal of any ACM that is not a Class I surfacing material or thermal system insulation. This includes but is not limited to, removal of resilient flooring materials, roofing materials, asbestos cement products, sealants, caulking materials as well as other ACMs.
13. Class III Asbestos Work – For this project-small scale removal work incidental to support removal or installation of equipment and devices where not intentional asbestos abatement work or removal is involved and the quantity of asbestos waste can be contained in one standard waste bag or glove bag with dimensions no greater than 60"by60" (60 inches square).
14. Class IV Asbestos Work – Work by maintenance and custodial workers that requires contact with ACM but for this section does not involve activities that require disturbance of ACM in a manner that could result in airborne asbestos fiber exposure to the workers.
15. Clean Room – An uncontaminated area or room that is a part of the worker decontamination enclosure with provisions for storage of Workers' street clothes and uncontaminated protective equipment and other uncontaminated materials and equipment.
16. Competent Person – An individual who is capable of identifying asbestos or lead hazards in the workplace and who has sufficient experience and authority to take prompt corrective measures to eliminate them. The Competent Person is required to have been specially trained for the type and level of work to be conducted. The Competent Person is responsible for conducting all required set/containment, in process, completion, and pre-clearance inspections as specified subject to verification and approval by the Owner's Consultant."
17. Critical Barrier – A unit of temporary construction of air-tight and impermeable barrier which provides effective separation between a contained asbestos Work Area and an adjacent, potentially occupied area. Typically consists of at least two layers of plastic sealed to prevent fiber migration into a non-involved adjacent area.
18. Decontamination Enclosure System (Decon Unit) – A series of connected rooms, with air lock doorways between any two adjacent rooms, for the decontamination of Workers and of materials and equipment. The decontamination enclosure system includes an Equipment Room, Shower Room, and Clean Room and must be contiguous to the Work Area Containment. Alternative systems including remote Decon Units and/or showers require prior approval.
19. Differential Pressure Equipment – A portable local exhaust system equipped with HEPA filtration and capable of maintaining a constant, low velocity air flow into a contaminated area from an adjacent uncontaminated area. Also referred to as HEPA Exhaust Units, Negative Air Machines (NAM's) or Negative Pressure Units (NPU's). This equipment must meet the HEPA filter efficiency as an installed system, typically by on-site testing prior to use.
20. Disturbance – Contact with asbestos-containing construction materials that disrupt their matrix (e.g. render friable) and create visible dust or debris and potential airborne fiber exposure. Likewise, for lead-containing paints, coatings or material disturbance means activities that disrupt their matrix and create visible dust or debris and that have potential to create airborne exposures to lead.

21. Encapsulant (sealant) – A liquid material which can be applied to asbestos-containing material or surface and which controls the possible release of asbestos fibers from the material or surface by creating a membrane over the surface (bridging encapsulant), or by penetrating into the material and binding its components together (penetrating encapsulant), or by locking down invisible fibers (lockdown encapsulant).
22. Equipment Room – A contaminated room in the Decon Unit for decontamination of PPE and equipment prior to entering the shower room or area. The Equipment Room or area is supplied with impermeable waste bags or containers for the disposal of contaminated PPE and equipment.
23. Fluorescent lamp or tube – A low pressure electric discharge lamp or light tube that generates ultraviolet light radiation by the passage of an arc through mercury vapor; the inner surface of the light converts some of it to visible light. Spent lighting tubes or lamps of this type typically contain mercury in concentrations exceeding the total threshold limit concentration (TTLC) and/or the soluble threshold limit concentration (STLC) making them a presumptive hazardous waste in California. As a consequence, under current regulation, they require special handling and disposal or recycling.
24. Fluorescent Light Ballast (FLB) – A device that electrically controls fluorescent light fixtures. Most fluorescent ballasts manufactured prior to 1979 include a capacitor containing 0.1 kilograms or less of a dielectric fluid that may contain PCBs. Pre-1979 ballasts may also contain asphalt potting compounds that may contain PCBs. More recently, electronic lighting ballasts that do not contain PCB have come into use.
25. Friable ACM – An ACM that that when dry can be crumbled, pulverized, or reduced to powder by hand pressure. A non-friable ACM that has not been rendered friable by mechanical or other means is considered “intact.”
26. Hazardous Materials – Hazardous materials include, but are not limited to: asbestos-containing construction materials, lead and lead-based paint, PCBs, Universal Waste items, CFC and other refrigerant gasses.
27. Hazardous Waste – Any waste material that is listed or meets the criteria for hazardous waste as set forth in the California Code of Regulations (CCR), Title 22, Chapter 11.
28. HEPA Filter – A high-efficiency particulate air (HEPA) filter capable of trapping and retaining 99.97 percent of particles equal or greater than 0.3 micrometers (micron) in mass median aerodynamic equivalent diameter.
29. HEPA Vacuum Equipment – Vacuuming equipment with a HEPA (UL 586 labeled) filter system. The vacuum must meet the HEPA efficiency of 99.97% efficiency for mono-dispersed 0.3 micron diameter particle as a system. On site testing may be required to verify the vacuum system meets HEPA requirements.
30. Lead-Based Paint (LBP) and Lead-Based Materials (LBM) – Paint and materials that are at least 0.5% lead by weight or 1.0 milligrams of lead per square centimeter of surface area (as measured by XRF lead analyzer). Note: any untested paints or coatings must be presumed to be LBP for structures constructed prior to 1978 and any other untested paints or paints found to have no detectable lead by XRF testing only must be assumed to contain some detectable lead subject to OSHA regulation.
31. Lead-Containing Paint (LCP) – Paint that has detectable lead by weight or lead per square centimeter of surface area as measured by XRF lead analyzer. LCP is assumed present when XRF results are negative and no analytical laboratory analysis for lead has been conducted.
32. Lead Hazardous Waste – Lead-Based Paint waste or other debris that has been classified as hazardous due to the characteristic of toxicity, as determined by testing in accordance with the California Code of Regulations, Title 22, Division 4.5. A lead hazardous waste is any substance(s) at concentrations greater than its listed Soluble Threshold Limit Concentration (STLC) or Total Threshold Limit Concentration (TTLC). The STLC for lead is 5.0 milligrams/liter (mg/l) and the

TTLIC for lead is 1000 ppm lead. If either of these values are exceeded, the lead related waste will need to be further characterized by the Toxicity Characteristic Leaching Procedure (TCLP) in accordance with 40 CFR 261 and possibly other tests prior to disposal as a hazardous waste. Waste testing for proper disposal is the responsibility of the Contractor.

33. Lead Paint Surface Preparation – The process of conducting surface preparation on building surfaces and components that are coated with LCP or LBP in order to remove loose, peeling, flaking paint and associated chalking, if present, to prepare surface for paint stabilization, painting or demolition.
34. Negative Pressure Enclosure (NPE) – An enclosed or contained area of any configuration constructed of polyethylene sheeting (6 mil minimum) with a minimum of four (4) air changes per hour and a negative pressure of -0.02 inches of water as compared to surrounding areas outside the enclosure. NPE conditions must be maintained operational until the Work Area passes final clearance inspection and clearance air testing.
35. Non-Friable Asbestos Material – Material that contains asbestos in which the fibers have been locked in by a bonding agent, coating binder, or other material so that the asbestos is well bound and will not release fibers in excess of the asbestos control limit during any appropriate use, handling, demolition, storage, transportation, processing, or disposal.
36. Non-Hazardous Asbestos Waste – Wastes which are non-friable and/or are below one percent asbestos by weight as determined by objective testing. Both Friable and Non-friable (intact) ACM wastes require OSHA Asbestos Hazard warning labels and disposal at landfills that accept such asbestos wastes.
37. Observation Service – Environmental Consultant hired to conduct various construction administration services including but not limited to compliance observation and air monitoring services on behalf of the Owner. Sometimes referred to as the Owner's Observation Service.
38. Owner – San Mateo Foster City Unified School district
39. Owner's Representative – Representative(s) that the Owner has assigned to manage, oversee, and inspect this project. This may include an architectural and/or construction management consultant hired by Owner to oversee the project and/or the assigned Construction Inspector.
40. PCB Ballast – a FLB known or suspected to contain PCBs. All FLBs must be considered to be PCB ballasts unless they are labeled or marked: "No PCB" by the manufacturer; manufactured in 1979 or later as indicated and verified on a date stamp or code located on the ballast; labeled as an electronic ballast by the manufacturer; or are General Electric HDF ballasts manufactured between 1977 and 1978 and which have a "W" added to their catalogue number on the ballast label.
41. Regulated Area – A Work Area established to demarcate areas where Class I, Class II, and Class III work is conducted and any other Work Area where airborne asbestos is reasonably likely to exceed the Permissible Exposure Limit (PEL). The Regulated Area must include all adjoining areas where asbestos waste and debris may accumulate. Demarcation must include warning signage and must limit access to authorized and properly trained, medically qualified, and protected personnel.
42. Removal – Procedures necessary to remove hazardous materials such as, but not limited to, asbestos or lead from designated areas and to dispose of these materials at an acceptable properly permitted waste disposal site. Removal is one remediation or abatement process.
43. Surfactant – An approved chemical wetting agent added to water to improve penetration.
44. Stabilization – Lead Paint Surface Preparation followed by application of at minimum a primer coat and usually followed by finish coating(s).
45. Three-dimensional: Any remaining material that can be removed from a substrate (concrete, wood etc.) by manual methods (razor scraper, chisel, etc.) and sent to a laboratory for analysis.

46. Trigger Task – Operation, process or task type specifically identified in the OSHA or Cal/OSHA lead standard as a potential lead exposure requiring certain protective measures to be implemented prior to obtaining the results of an initial exposure assessment. Trigger Tasks include, but are not limited to, any of the following task types when materials or paints that contain lead are present and will be disturbed:
 - a. Manual Demolition;
 - b. Manual Scraping or Sanding;
 - c. Heat Gun Application;
 - d. Use of power tools for cleaning or removal;
 - e. Rivet busting;
 - f. Abrasive blasting and cleanup of spent abrasive; &
 - g. Welding, cutting or torch burning.
47. TSD Facility – A US EPA or State EPA permitted facility for transportation, storage and disposal of hazardous wastes.
48. Unclassified Asbestos Work – Work involved in removal or disturbance of construction materials with 1% asbestos or less (e.g. trace asbestos, unless assumed ACM). Composite analysis is not allowed to determine unclassified work. Worker protection and certain work practices are required for this work.
49. Visually Clean – Free of visible dust, paint chips, dirt, debris, or films removable by vacuuming or wet cleaning methods specified. For outside soil or ground cover areas, visually clean shall mean free of visible construction and paint debris, chips or dust distinguishable from the initial soil or ground conditions (after exterior pre-cleaning).
50. Waste Generator Label – Waste Generator Label shall include the Generator's Name, ID Number, Address, and Waste Manifest Number.
51. Wet Cleaning – The process of eliminating asbestos or lead contamination from building surfaces and objects by using cloths, mops, or other cleaning tools that have been dampened with water or water/detergent solution, and by afterwards disposing of these cleaning tools and materials as contaminated waste.
52. Work Area – Designated rooms, spaces, or areas of the project in which hazardous material removal actions are to be undertaken or which may become contaminated as a result of such removal actions during the process and prior to final clean-up and decontamination. A contained Work Area is a Regulated Work Area that has been sealed and equipped with a Decontamination Enclosure System.
53. Worker Decontamination Enclosure System (Worker Decon) – That portion of a Decontamination Enclosure System designed for controlled passage of workers, and other personnel and authorized visitors, typically consisting of a clean room, a shower room, and an equipment room. No eating, drinking or smoking is allowed in Work Areas.

1.5 MATERIALS OWNERSHIP

- A. Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, demolished materials shall become Contractor's property and shall be removed from Project site and properly disposed or recycled.

1.6 SUBMITTALS

- A. Requirements are as set forth in Contract for items required to be submitted under this section. Submit the following:

B. Pre-Start Submittals:

1. Submit the following:

- a. Licensing and Registration for Contractor or Subcontractor responsible for removal of hazardous materials. Submit copies of current and valid:
 - 1) The Contractor's license and Contractor's asbestos certificate issued by the California State Contractor's Licensing Board (CSLB);
 - 2) C-22 Asbestos Abatement Contractor license and Registration for Asbestos-Related Work from the Division of Occupational Safety and Health in accordance with CCR, Title 8, Article 2.5 of the California Administrative Code for any removal or disturbance involving greater than 100 square feet of ACM.
 - 3) The Contractor shall meet the lead certification requirements of Federal EPA Renovation, Repair and Painting Rule 40 CFR 745.80
- b. Personnel Qualifications: Personnel documents required per this section shall be organized by individual employee and include the training, medical, and fit test information described as follows.
- c. Personnel Training:
 - 1) Competent Person/Supervisor (Asbestos - Class I & II Removal Work): Submit training certificates for Contractor/Supervisor Training by Cal/OSHA accredited provider.
 - 2) Workers (Class I & II Removal Work): Submit training certificates for Asbestos Workers Training by Cal/OSHA accredited provider.
 - 3) All removal, manual demolition, and clean-up of lead-based paint and lead-based materials shall be performed by a state-licensed contractor, using CDPH-certified workers with at least one CDPH-certified Supervisor. The supervisor and workers shall also meet the training requirements of Federal EPA Renovation, Repair and Painting Rule 40 CFR 745.80 and Cal/OSHA Hazardous Communications Training.
 - 4) All removal and disturbance of lead-containing materials (not meeting the definition of "lead-based") as defined in 8 CCR 1532.1, may be performed by a state-licensed contractor, using lead-trained workers with certification of training meeting the requirements of 8 CCR 1532.1. In addition:
 - a) Abatement contractor's workforce shall be supervised by experienced persons trained, knowledgeable and qualified in the techniques of lead abatement, handling and disposal of lead-containing and/or lead-contaminated materials, and the subsequent cleaning of contaminated areas.
 - b) For this work the contractor and on-site supervisor shall meet the certification and training requirements of the Federal EPA Renovation, Repair and Painting Rule 40 CFR 745.80 and Cal/OSHA Hazardous Communications Training.
 - 5) All personnel who perform hazardous materials work must be trained and qualified to do so. They must also follow the most current Cal/OSHA regulations 8 CCR 5192, Hazardous Waste Operations and Emergency Response, 8 CCR 5194, Hazard Communications, as well as other applicable federal, state and local laws and regulations, applicable to the hazardous materials work being performed.
- d. Medical Examination:
 - 1) Asbestos-Related Work: Submit proof that personnel who will be performing asbestos-related work have had medical examinations within the last 12 months in conformance with Title 8 CCR; Section 1529 asbestos, and furnish the results of each exam in the form of the physician's written opinion or approval with regard to worker fitness to wear a respirator

and perform asbestos work as applicable. Note: ensure the medical provider has specifically indicated exam was for asbestos (e.g. by checking asbestos box at minimum);

- 2) Lead-Related Work: Submit proof of medical surveillance completion for each worker performing a “trigger task” or any work likely to result in an airborne lead exposure greater than the PEL for lead. Blood lead test results shall be completed within 30 days of startup of site work.
- e. Respirator Fit Tests: Submit proof that personnel who will be entering asbestos or lead Regulated Areas have had a qualitative respiratory fit test performed within 12 months from the scheduled completion date of the project.
2. Notifications, Communications, and Postings.
 - a. Submit copies of notifications to appropriate government agencies where required, including the following:
 - 1) Cal/OSHA District Office: Submit Temporary Work Site Notification for asbestos removal involving greater than 100 SF of ACCM at least 24 hours in advance of start of asbestos work providing date and time of commencement of work, location, approximate duration, type of business, and kind of job. Likewise, provide copies of lead pre-start notification for lead-related construction work disturbing over 100 SF of LBP at least 24 hours in advance of startup. Provide notification copy(s) to Observation Service in pre-start submittal package.
 - 2) BAAQMD: Submit notification of every renovation involving removal of RACM in amounts greater or equal to 100 SF, 100 LF or 35 cubic feet. Submit according to AQMD regulation at least ten (10) working days prior to start of work and provide copy to the Observation Service with the Pre-Start Submittal.
 - 3) Submit copies of any agency notification amendments and changes on a timely basis with a copy to the Observation Service concurrently.
3. Respiratory Protection Plan: Submit a written standard operating procedure governing selection, fit-testing, and use of respirators for asbestos, lead, or other airborne toxic material exposure protection.
4. Detailed Work Plan: Submit a detailed work plan proposed for use in complying with the requirements of these specifications and project plans. The detailed work plan shall include, at a minimum, the following information:
 - a. Procedures: Job-specific procedures proposed for completing the scope of work outlined herein including: means of controlling and containing dust, preventing fugitive emissions, and controlling worker exposure for lead-related construction/demolition work and all Class I and II asbestos removal and clean-up work.
 - 1) Procedures for removal of existing ACM components and finishes to the extent required and/or indicated or inferred in the project documents.
 - 2) Procedures for lead-related construction such as paint chip removal/clean-up and building demolition to contain airborne dust and prevent contamination of the grounds and site from lead contamination above background levels or established hazard threshold concentrations, which ever are lower.
 - 3) Removal and proper inspection, handling, and disposal of any presumed PCB lighting ballasts not found to be PCB free by labeling for any impacted lighting fixtures to be removed and the proper disposal of any Universal Waste items impacted by selective demolition or other disturbance work of this project.
 - 4) Identify and list vendor (or subcontractor) that is a Certified EPA Refrigerant Reclaimer to properly remove and recycle or destroy refrigerant gasses from equipment to be removed.

5. Plan for personnel air monitoring required by law by the Contractor for Worker protection. The Plan shall include, but not be limited to the following:
 - a. Personnel Air Monitoring conducted in strict accordance with 8 CCR 1529 for asbestos and 8CCR 1532.1 for lead-related work. Include calibration data for the secondary standard to be used for air sampling pump calibration on-site. This data must be within six (6) months of the projected completion of this project;
 - b. Name, address, and accreditation and/or certification of laboratory selected by the contractor to analyze air samples;
 - c. The plan shall include a commitment by the Contractor to submit copies of laboratory results with information regarding personnel and operation sampled as required by Cal/OSHA to the Observation Service within 24 hours of receipt of results as and no later than 72 hours from date of the exposure monitoring.
 6. Product Data: Manufacturers product data for all items required for complete and proper execution of the work, this includes product data for all items listed under Part 2 - Products. Product data shall include manufacturing product data, specifications, samples and application instructions, safety data sheets (SDS), and other pertinent information as necessary. Do not send information on products that are not going to be used.
 7. Waste Disposal & Recycling Sites: Submit Name Location, Class, and EPA # for each waste disposal site to be used for any asbestos, lead, PCB, and Universal Wastes Item wastes. Include information on permitted recycling sites or firms to be used for disposal (as applicable).
- C. Daily Submittals: Within 72 hours following the completion of the first Work Shift for each different operation, the Contractor shall submit the following information to the Observation Service by fax or e-mail:
1. OSHA exposure monitoring sample results for asbestos including Eight (8) hour Time Weighted Average (TWA) sampling and results for asbestos excursion limit samples. Sample results must indicate the person sampled, description of work activity, start and stop times, liters per minute, total volume and laboratory result expressed as an eight-hour TWA or excursion limit sample.
 2. OSHA exposure monitoring sample results for 8-hour TWA monitoring of "trigger tasks" associated with lead-related construction/demolition activities.
- D. Close-Out Submittals:
1. Within 10 days of completion of all hazardous material removal work, submit a copy of all outstanding Daily Submittals and one copy of each hazardous waste manifest for asbestos, lead, PCB and other hazardous material to be transported for disposal.
 2. Work Area entry/exit logs completed for each asbestos Work Area and each Work Shift.

1.7 Postings

- A. Before the commencement of any asbestos related construction work at the site, post Cal/OSHA warning signs in and around the Work Area to comply with Cal/OSHA regulations.
- B. Copies of the Contractor's CSLB license (e.g. C-22), Cal/OSHA registration certificate, temporary job-site notifications, pre-start LBP notifications to Cal/OSHA, local agency notifications, emergency exit diagram, emergency phone numbers, Cal/OSHA poster on worker's rights, and worker's compensation poster shall be posted proximate to the entrance to each Work Area.
- C. The Contractor shall have at least one copy of the Contract Documents including project plans and specifications, and a current copy of 8 CCR 1529 & 1532.1.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Submit manufacturer's product data for all items to be used including the items listed below. Include a SDS for each product as applicable.
- B. All materials to be used on the project shall be new in original packages, containers, or bundles bearing the name of the manufacturer and the brand name. Used materials will not be permitted.

2.2 PROTECTIVE COVERING (PLASTIC SHEETING)

- A. For standard containment and critical barrier usage: Polyethylene sheets 6 mil in size to minimize frequency of joints. Fire retardant polyethylene sheeting, approved and listed by the State Fire Marshall per Section 13121 and/or 13144.1 of the California Health and Safety Code, is required for all renovation projects and all abatement in occupied buildings.

2.3 TAPE, ADHESIVES, SEALANTS

- A. Duct tape two inches or wider, or equivalent, capable of sealing joints of adjacent sheets of plastic sheets and for attachment of plastic sheets to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions.
- B. Spray adhesives for sealing polyethylene to polyethylene shall contain no methylene chloride compounds.

2.4 PROTECTIVE PACKAGING

- A. Appropriately labeled 6 mil sealable polyethylene bags as a minimum for asbestos, including non-friable asbestos.
- B. Appropriately labeled, impermeable drum containers with sealable lids for RCRA lead waste.
- C. Bilingual labels (English and Spanish) on waste packages, contaminated material packages and other containers shall be in accordance with EPA or OSHA standards.

2.5 WARNING SIGNS AND LABELS

- A. All warning signs and labels must meet all applicable regulatory requirements for wording, size of lettering, and use of language, pictographs, and graphics to effectively convey the warning. Additional requirements apply for hazardous waste containers and shipments for transportation to disposal sites.
- B. Asbestos Warning signs for Regulated Areas must contain the following wording:

**DANGER
ASBESTOS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
AUTHORIZED PERSONNEL ONLY
WEAR RESPIRATORY PROTECTION AND PROTECTIVE
CLOTHING IN THIS AREA**

- C. Labels for packaging and containers containing ACM waste (friable and non-friable) must contain the following wording:

**DANGER
CONTAINS ASBESTOS FIBERS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
DO NOT BREATHE DUST
AVOID CREATING DUST**

- D. Lead Warning signs for Regulated Areas where exposure is known or anticipated to exceed the PEL must contain the following wording:

**DANGER
LEAD WORK AREA
MAY DAMAGE FERTILITY OR THE UNBORN CHILD
CAUSES DAMAGE TO THE CENTRAL NERVOUS SYSTEM
DO NOT EAT, DRINK, OR SMOKE IN THIS AREA**

2.6 MASTIC REMOVAL SOLVENT (if used)

- A. Mastic removal solvents shall be nonflammable, non-toxic, and non-hazardous as a waste product. Example products include but are not limited to soy based solvent removers such as Blue Bear "Bean-E-Doo" Mastic Remover 500 MR; Sentinel 909 Soy Bean Degreaser and Mastic Remover; or equivalent products.

2.7 ENCAPSULANTS

- A. A suitable clear "lockdown" encapsulant shall be used after removal is completed and has been approved by visual inspection. Acceptable products include but are not limited to Fiberlock PM Post Removal Surface Sealant; Sentinel 811 LE Lockdown Encapsulant; Childers CP 240 Envirocoat Lockdown Encapsulant EN 110; or equivalent,

2.8 SURFACTANT

- A. Surfactant, or wetting agent, for amending water to ensure asbestos is adequately wet during asbestos removal and subsequent waste handling, packaging/containerizing for disposal. Products such as Fiberlock "Penewet", Foster 32-90 Asbestos Removal Surfactant, or equivalent products are acceptable for this purpose.

2.9 PERSONAL PROTECTIVE EQUIPMENT

- A. Personal Protective Equipment shall comply with the requirements of 29 CFR 1910, Subpart 1 and 8CCR 1514, 1515, 1516, and 1517.
- B. Asbestos abatement and lead-related work clothes shall consist of impervious disposable, full-body coveralls, head covers, boots, rubber gloves, and work boots (or sneakers). Sleeves at wrists and cuffs at ankles shall be secure. Disposable coveralls shall be a non-see through type and constructed of DuPont Tyvek, Kimberly-Clark KleenGuard A40 or equivalent fabrics that provide acceptable protection from asbestos and other toxic particulate penetration. Protective clothing for other hazardous chemicals must be impervious to those chemical hazards.
- C. Eye protection and hard hats shall be available and worn when required by applicable safety regulations.

- D. Provide Authorized Visitors with suitable protective clothing, headgear, eye protection, and footwear whenever they enter the Work Area.

2.10 RESPIRATORS

- A. Provide all workers, foremen, superintendents, authorized visitors, and inspectors with personally-issued and marked, clean and sanitized respiratory equipment approved by NIOSH. When respirators with disposable filters are employed, provide sufficient filters for replacement as recommended by manufacturers or this specification. Selection of respirators shall be made according to the Cal/OSHA respirator standard and applicable hazard specific regulation.
- B. The minimum respiratory protection for asbestos abatement for this project is a half mask respirator as long as the airborne levels do not exceed one tenth of the PEL (e.g. 0.01 f/cc) inside the face piece based on the nominal protection factor. A PAPR shall be used for all Class I work. For other airborne chemical hazards, respirator protection shall be selected to ensure protection to below the Action Level (AL) established by regulation or otherwise 1/2 of the applicable PEL in the absence of an AL.

PART 3 - EXECUTION

3.1 PROJECT PROCEDURES

- A. Prior to the start of on-site work, the Contractor shall hold an on-site start-up safety meeting for all contractor and facility employees that addresses at least the following issues specific for the project:
 - 1. Safety and health hazards;
 - 2. Procedures and work practices;
 - 3. Respiratory protection and instruction;
 - 4. Special conditions and/or work requirements.
- B. Worker Protection Procedures
 - 1. Provide Authorized Visitors with suitable protective clothing, respirators, headgear, eye protection, and footwear whenever they are required to enter the Work Area. All provided equipment shall be new or in good working condition.
 - 2. Each worker and Authorized Visitor shall, upon entering the job site: Remove "street clothing" in the clean-change room (or area) and put on a respirator and clean protective clothing before entering the equipment room or Work Area.
 - 3. Prior to leaving the Work Area, remove gross contamination from protective clothing and equipment, proceed to the established Equipment Room or area, remove clothing except respirator and proceed to the shower and/or decontamination area wearing the respirator. Clean the exterior of the respirator before removing it and shower/wash the body with soap and water.
 - 4. Following showering and drying off, each worker shall proceed directly to the clean change room and dress in clean clothes at the end of each day's work, or before eating, smoking, or drinking. Before re-entering the Work Area from the clean-change room, each worker and authorized visitor shall put on a clean respirator and shall dress in clean protective clothing.
 - 5. Contaminated work footwear shall be stored in the equipment room when not in use in the Work Area. Upon completion of asbestos-related work, dispose of any contaminated footwear as asbestos contaminated waste unless fully decontaminated.
 - 6. Workers removing waste containers from the equipment decontamination enclosure shall enter the holding Area from outside wearing a respirator and dressed in clean disposable coveralls. No Worker shall use this system as a means to leave or enter the washroom or the Work Area.

7. Workers shall not eat, drink, smoke, or chew gum or tobacco while in the Work Area.
8. All Workers and Authorized Visitors shall be clean shaven and have no facial hair in the area of respiratory seal. Facial hair is acceptable only when loose fitting powered air hoods or helmet type respirators are used.

3.2 GENERAL WORK AREA PREPARATION FOR ABATEMENT

A. General Requirements (for abatement required interior asbestos disturbance)

1. Prior to Work Area set up and preparation, remove all movable objects that will not disturb existing ACM, ACCM, or asbestos contaminated materials in the process.
2. Isolate, effectively protect, or de-energize electrical power to Work Area. Electrical circuits shall be deactivated if they do not include ground fault circuit interrupters.
3. Provide temporary power and lighting and ensure safe installation of temporary power sources and equipment per applicable electrical code requirements and provide ground fault interrupter circuits with power source for electrical equipment to be used.
4. Provide temporary supply of water adequate for wet removal, cleaning, decontamination and operation of employee shower system (where required).
5. Isolate any heating, cooling, ventilation air systems that enter or penetrate the building within or near the Work Area to prevent contamination of other areas of the structure.
6. Pre-clean and decontaminate all accessible areas prior to hazardous materials remediation, demolition, and/or other construction activities.
7. Cordon off all other accesses to interior Work Areas with barrier tape and warning signage.
8. Seal all remaining openings to Work Area, including but not limited to ducts, grills, diffusers, and any other penetrations of the Work Area, with critical barriers consisting of two layers of plastic sheeting sealed with tape.
9. Isolate non-emergency egress doorways, and access ways with temporary barriers and seal with plastic sheeting.
10. Cover and seal non-movable objects, furniture and equipment not being removed or abated with 6 mil plastic sheeting and duct tape.
11. Seal all exposed joints of conduit, junction boxes, and ductwork with plastic sheeting and duct tape.
12. Install a Decontamination Enclosure System or equivalent prefabricated portable decontamination unit(s) as approved. This will be the primary entrance and exit for the Work Area unless a mini-containment is allowed and used.
13. Install viewing ports of size, quantity, and location to meet local AQMD/APCD requirements and regardless of requirements, at minimum install viewing ports that allow viewing entire Work Area to extent feasible.
14. Install Differential Pressure Equipment for all Class I and Class II asbestos removal operations in accordance with the requirements herein for full containments. Establish a negative pressure of 0.02 inches of water or greater inside the work area containment with respect to the outside and non-involved buildings areas. The interior Class II removal operations require full containments unless approved to be conducted in mini-containments, or if of small scale cut and patch nature, in an approved perimeter monitored Regulated Area.
15. Install an adequate number of HEPA exhaust units to obtain the required negative pressure continuously and achieve at least four (4) air changes per hours inside the containment.

B. Decontamination Enclosure System (General-for asbestos disturbance operations)

1. Construct/install or establish a Decontamination Enclosure System or area for each containment, mini-containment, or Regulated Area, as applicable, for the proper decontamination of workers as they exit the Work Area.
2. Provide separate designated areas or chambers for the removal of contaminated clothing prior to exiting the contaminated Work Area for showering or washing (as appropriate) and for donning clean protective clothing and equipment prior to re-entry of a Regulated Work Area or containment. The decontamination system shall comply with applicable regulation (e.g. Cal/OSHA) taking into account the asbestos removal work class as well as site conditions.
3. In the event that the Decontamination Enclosure System is not contiguous with the Work Area, at minimum a decontamination area must be established at point of egress that allows for removing and disposing of contaminated protective clothing and equipment, staged with amenities for washing hands, respirator, face and other exposed body surfaces to allow exit and donning of clean PPE prior to departing for a remote decontamination system on site. Double suiting procedures are also an option.

C. Pre-start Requirements

1. All required submittals shall have been reviewed and accepted by the Owner or Owner's Observation Service prior to start of site work.
2. Arrangements must be made in advance for secure temporary storage of asbestos wastes on site.
3. Regulated Areas, Containments, and/or Mini-Containments shall be installed, inspected, and approved prior to start of removal work.
4. Arrangements for buildings and asbestos Work Area security during removal operations and including periods when no work is in progress such as off hours, weekends, and holidays must be made and approved by the Owner or Owner's representative.
5. Differential pressure systems (including HEPA units and vacuums), where required, shall be installed, properly operating, and recording properly. All HEPA filtered equipment must be tested and certified on-site prior to use by a third-party vendor.

D. Maintenance of Enclosure Systems

1. Ensure all barrier systems are intact and effectively sealed and taped. Repair damaged or breached barriers and remedy defects and any releases immediately upon discovery.
2. Visually inspect each enclosure at the beginning of each work period and periodically throughout the work shift. Inspections shall include, but not be limited to, the protective critical barriers, decontamination unit barriers, warning signage, and Work Area barrier systems.
3. Use smoke test methods to evaluate the effectiveness of barriers and to check negative pressure prior to starting asbestos removal, at least once daily and, in addition, when directed by the Observation Service.
4. Ensure that all negative pressure containment enclosures meet all Cal/OSHA and AQMD requirements at all times from start up through removal completion and clearance testing.

3.3 PREPARATION FOR CLASS I AND CLASS II ASBESTOS WORK

A. Class I and II Asbestos Removal Work:

1. In addition to general preparation requirements (above):
 - a. For interior Class I and II removal install a negative pressure containment with a contiguous 3-stage worker decontamination enclosure system and HEPA filter exhaust to the exterior. Floors (if applicable) and other non-ACM surfaces shall be protected by at least two 6 mil layers of plastic sheeting. Provide for four air changes per hour and a minimum negative pressure

differential of -0.02 inches of water column relative to the outside. Provide manometer with strip chart for documenting maintenance of negative pressure throughout removal process and until clearance is achieved. Note: Small localized removal areas may be completed in negative pressure mini-containments.

- b. All negative pressure exhaust units shall be HEPA filtered and exhausted to the building exterior. All HEPA exhaust units and vacuums shall be DOP (or equivalent) tested on-site and certified to meet HEPA efficiency standards.
- c. Where only the removal is with glove bags and/or the cut & wrap methods is used, six (6) mil plastic drop sheets extending at least 5 feet on each side of pipe at minimum are required. Likewise, drop sheets shall be used at a minimum for roofing and window caulking/sealant removal.

3.4 ASBESTOS REMOVAL AND DISTURBANCE PROCEDURES-PROHIBITIONS

- A. Prohibitions. The following methods shall not be used to remove or clean up asbestos:
 - 1. Use of high-speed abrasive disc saws without effective vacuum assisted HEPA filtered attachments to capture and remove asbestos dust at point of operation;
 - 2. Compressed air to remove or clean-up asbestos;
 - 3. Dry sweeping or shoveling of asbestos containing dust or debris;
 - 4. Aggressive removal methods where non-aggressive methods are feasible.
 - 5. Where aggressive methods are required, they must include special containment and control procedures acceptable to regulatory agencies and be approved by the Observation Service in advance.

3.5 CLASS I and RACM ASBESTOS REMOVAL OPERATIONS (TSI)

- A. Work Area Containment: Where full containment is use, a contiguous decontamination unit is required. For multiple mini-containments, the contractor shall establish an on-site decontamination unit near the Work Areas and procedures for workers to remove contaminated PPE and decontaminate face, respirator and exposed skin upon egress from each mini-containment.
- B. All removal will be conducted using wet methods using amended water for wetting. Any mechanical cutting tools shall be equipped with an effective HEPA filtered vacuum assist dust collection system.
- C. Promptly place removed wetted debris in labeled asbestos waste bags or containers. Goose neck bags and seal bags and containers with duct tape. Clean exterior of bags and containers by wet wiping and double bag waste bags prior to removal from containment or mini-containment.
- D. Removal of Class I asbestos-containing materials from piping may be accomplished using approved glove bag techniques and modified cut, wrap, and removal techniques where piping is to be demolished or abandoned in place unless otherwise noted in specified areas. In all cases, removal shall be conducted in secondary negative pressure containment or mini-containment.
- E. Upon completion of removal work, clean all surfaces within containment/mini-containment using wet cleaning and HEPA vacuuming until free of all visible dust and debris. When complete, proceed to final cleaning for clearance inspection and testing (below).
- F. Dispose of all ACM under a hazardous asbestos manifest as appropriate and signed by the Owner or Owner's representative. These asbestos waste materials must be bagged, containerized and appropriately labelled.

3.6 CLASS II NON-FRIABLE ASBESTOS REMOVAL OPERATIONS, INTERIOR (MASTICS AND TABLES)

A. Prepare Work Area as indicated above for Class II Operations

1. Conduct all interior removal of ACM in negative pressure full or mini-containments.
2. Mist the material continuously with amended water during removal operations;
3. Remove in as intact manageable large sections to extent feasible using manual methods such as pry bars and other appropriate tools
4. Wet removed ACM contaminated materials with amended water as it is removed and packaged.
5. Complete removal and clean up by cleaning or removing all nails and fasteners, cleaning all junction boxes, conduit, wire, outlets, plumbing, framing and other surfaces in the work area.
6. Place removed asbestos debris in asbestos labeled waste bags or containers or sealed 6 mil poly wrapping with EPA and Cal/OSHA warning labeling as appropriate.
7. Dispose of all ACM under a hazardous or non-hazardous asbestos manifest as appropriate and signed by the Owner or Owner's representative. These asbestos waste materials must be bagged, containerized and appropriately labelled.

3.7 CLASS II NON-FRIABLE ASBESTOS REMOVAL OPERATIONS, EXTERIOR (ROOFING AND WINDOW GLAZING)

- A. Establish a regulated area with barrier tape, asbestos warning signs, and decontamination area surrounding the materials to be removed.
- B. Removal shall be conducted using wet methods and appropriate cutting tools. Remove roofing in small sections and place in waste bags or containers.
- C. Removal of materials shall be conducted using hand scrapers and cutting tools to remove the ACM from the non-ACM substrate materials.
- D. Bag debris in labelled bags as it is removed, HEPA vacuum and wet wipe substrate to remain.
- E. Dispose of non-friable ACM as non-hazardous asbestos waste and transport to waste disposal site with a non-hazardous asbestos manifest signed by the Owner or Owner's representative.

3.8 ACCM CLASS II REMOVAL OPERATIONS (WALLBOARD/JOINT COMPOUND <1.0%)

- A. Establish a regulated area with barrier tape, asbestos warning signs, and decontamination area surrounding the material to be removed.
- B. Mist the material continuously with amended water during removal.
- C. Remove gypsum board in larger sections or pieces where possible. Use pry bars, utility knives, claw hammers and other appropriate tools to loosen and remove wallboard from framing. Remove all wallboard fasteners.
- D. Place removed material in impervious containers or seal in 6 mil plastic wraps with asbestos warning labels as it is removed. Wall insulation shall be placed in same bags or containers as asbestos contaminated waste.
- E. Complete Work Area clean-up including: all remaining nails; framing; electrical junction boxes, outlets, wiring, and conduit; plumbing fixtures, piping, and hanger, and all other surfaces in the work area.

- F. Dispose of all ACCM under a non-hazardous asbestos manifest or construction debris bill of lading as appropriate and signed by the Owner or Owner's representative. These asbestos waste materials must be bagged/containerized and appropriately labelled.

3.9 FINAL ASBESTOS DECONTAMINATION

- A. Previous Work: During completion of the asbestos removal and visible debris clean up work specified, the first cleaning of all exposed equipment and building surfaces must be completed.
- B. Clean any remaining materials and debris exposed by the protective barrier removal. All critical isolation barriers, vents, grilles, diffusers, etc., shall remain in place in interior containments and Regulated Areas;
- C. Clean all exposed surfaces in the Work Area containment or Regulated Area by wet wiping and HEPA vacuuming.
- D. At the completion of this cleaning phase, the Work Area shall be free of all unnecessary equipment/materials and waste containers.
- E. The Contractor's Competent Person/Supervisor shall perform a complete visual inspection of the Work Area under adequate lighting to ensure that the Work Area is free of visible asbestos material, debris, and dust.
- F. Notify the Owner's Observation Service at least 48 business hours in advance of the day and time when the Work Area will be ready for Final Inspection and Clearance.
- G. The Contractor's Competent Person/Supervisor shall ensure that additional cleaning is completed if the area is not acceptably clean. The Contractor shall request a final visual inspection by the Observation Service once the Competent Person/Supervisor concludes that the area is acceptable for final visual inspection.
- H. After written notification to proceed from the Observation Service, encapsulate all surfaces within the Work Area. Allow at least 4 hours for lockdown encapsulate to dry prior to the clearance air testing by the Observation Service.
- I. After written notification from the Observation Service that the abatement was fully completed and successfully decontaminated based on clearance inspection and testing, the Contractor may proceed with removal of critical barriers and containment materials.

3.10 LEAD-RELATED DEMOLITION, PAINT FILM STABILIZATION, AND DEBRIS REMOVAL

- A. General: All painted or coated surfaces at this site are either known or presumed to contain lead subject to worker protection and environmental regulations. Refer to referenced survey documents for additional information regarding lead materials present.
- B. Conduct lead dust and debris generating operations such as but not limited to selective demolition, paint film stabilization, and debris removal within a lead-related construction Regulated Area with warning signage and adequate protection of non-involved surfaces.
- C. Conduct lead-related work in a manner that does not result in building or site contamination. Use wet methods and HEPA vacuuming for dust suppression and clean up during paint/coating disturbing and other lead-related operations.

- D. Use plastic drop sheets and/or containments as necessary to prevent lead contaminated dust and debris from escaping the immediate work area and contaminating other building surfaces and/or exposing non-protected and non-involved workers and personnel.
- E. Clean up any demolition and other lead-related wastes, including any resulting dust, paint chips and painted component debris, so that there are no visible dust or debris and so that all building surfaces upon completion are free of lead dust or surface residue contamination above clearance levels.
- F. The Contractor shall evaluate each demolition and other lead-related debris waste stream and ensure proper disposal of all generated wastes. All waste profiling and testing required by the disposal site is the responsibility of the Contractor.

3.11 LEAD WASTE CLEAN UP AND EVALUATION

- A. Clean up paint chips and debris using wet cleaning methods and HEPA vacuuming. All surfaces shall be free of all visible paint chips, dust and debris. Place all paint chips in a labeled lead waste bag or container.
- B. Place all contaminated cleaning materials, disposal personal protective equipment (PPE) and contaminated plastic in separate waste bags. The Contractor shall assume all lead-related waste is RCRA hazardous waste pending waste test results and the Contractor shall conduct all required waste testing as necessary for waste characterization and disposal at a permitted waste disposal site.
- C. All waste streams and waste categories listed below shall be considered lead hazardous waste until proven otherwise through testing. All testing of demolition wastes is the responsibility of the Contractor.
- D. Based on the testing protocols, any waste greater than or equal to 5 mg/l lead using STLC or any waste greater than or equal to 1000 ppm lead using the TTLC test shall be considered a California hazardous waste. Any waste greater than 5 mg/l based on the federal TCLP test is a RCRA hazardous lead waste. All wastes with a total lead content of 50 ppm lead or higher shall be subjected to TCLP testing for RCRA waste characteristics.
- E. When the TTLC test result is less than 50 ppm lead, no further testing is required for that waste category sampled unless the waste stream or waste generating process changes.

3.12 PCB LIGHTING BALLASTS AND UNIVERSAL WASTE ITEMS

- A. Each fluorescent light fixture ballast to be removed or demolished shall be inspected upon removal for ballast type, labeling and markings. Any non-electronic ballast not labeled "PCB Free" or "No PCB" shall be considered to be a PCB ballast and properly packaged, containerized, and labeled for disposal as a hazardous PCB waste. Replace PCB ballasts with non-PCB ballasts in lighting fixtures to be re-used. Dispose of non-PCB ballasts as electronic waste (Universal Wastes).
- B. Carefully remove all fluorescent lighting tubes and lamps and non-incandescent lamps, such as but not limited to high intensity discharge (HID) lamps, from fixtures to be demolished and package and label for disposal as a Universal Waste at a hazardous waste disposal site or permitted recycler.
- C. Emergency and exit lighting batteries, if removed, shall be packaged, labeled and disposed of as Universal Waste items.

3.13 WASTE PACKAGING & LABELING

- A. All asbestos wastes shall be adequately wetted prior to packaging.
- B. Place asbestos waste in six (6) mil labeled asbestos waste bags or approved equivalent containers.

- C. Goose neck and seal each bag and place in a second clean-labeled bag, drum or impervious container.
- D. Decontaminate waste bags and containers prior to removing from regulated or contained area.
- E. Label all asbestos waste bags or containers with OSHA warning label and other information as required by regulation.
- F. All other hazardous wastes including lead wastes shall be properly labeled and containerized in leak tight containers.

3.14 WASTE DISPOSAL

- A. Waste Transportation: Submit the method of transport of asbestos wastes including name, address, and telephone number of transporters.
- B. Waste Disposal Site(s): Submit for approval the name, class, address, and telephone number of waste disposal site(s) to be utilized.
- C. Waste Manifest: Submit for approval at the pre-construction meeting a filled-out Waste Manifest form. For Waste Manifest purposes, the Generator is the facility of the subject work.
 - 1. Obtain necessary information for this purpose from the Owner or Owner's Representative prior to start up of any abatement or demolition.
 - 2. After removal and packaging waste for shipment, provide a copy of the Waste Manifest to the Observation Service for each required shipment.
 - 3. Use the Uniform Hazardous Waste Manifest for hazardous wastes including friable ACM and lead waste exceeding the hazardous waste characteristics for California and US EPA.
- D. Each waste manifest shall be prepared for the Owner or Owner's Representative's review and approval prior to shipment.
- E. The sealed waste containers shall be delivered to the Contractor's pre-designated, approved hazardous waste treatment and waste disposal site for treatment, destruction, and/or burial in accordance with applicable state and federal regulations.
- F. Notify the Owner's facility representative 48 hours in advance of the time when contaminated materials are to be removed and transported from the site to allow for manifest review and approval.
- G. The Contractor shall be responsible for safe handling and transportation of all waste generated by this Contract to the designated Waste Site and shall hold the Owner and the Owner's agents and consultants harmless for claims, damages, losses, and expenses against the Owner, including attorney's fees arising out of or resulting from asbestos and hazardous materials spills on the site or en route to the disposal site.

3.15 AIR MONITORING & CLEARANCE TESTING

- A. Area Air Monitoring.
 - 1. Throughout the asbestos removal or disturbance process, area air monitoring may be conducted by the Observation Service to ensure work is done in conformance with the fiber concentration limits of these specifications. Likewise, lead removal and demolition Work Areas may be visually inspected and/or air monitored during disturbance activities including removal, treatment or demolition.
 - 2. If results of area air monitoring outside the Work Area are in excess of 0.01 fibers per cubic centimeters of air (f/cc) for asbestos regulated Work Areas or 2 micrograms of airborne lead per cubic meter of air ($\mu\text{g}/\text{m}^3$) for lead work area perimeters or at the project fence line, the Contractor

shall make changes in work procedures to assure compliance with minimum standards. At a minimum, the Contractor shall stop all work and implement additional remedial controls and conduct decontamination as necessary in response to exceeding these limits.

3. Unsatisfactory asbestos results are fiber counts in excess of 0.01 f/cc by PCM Method NIOSH 7400 determined as a TWA outside the Work Area by general air monitoring. All results greater than 0.01 f/cc shall be subject to further laboratory analysis by the TEM method at the Contractor's sole expense.

B. Clearance Inspection and Testing after Lead-Related Demolition or Construction Work

1. All work involving removal or disturbance of LBP or LCP requires cleanup of all resulting impacted Work Area surfaces using HEPA vacuuming and wet methods to achieve surfaces free of visual dust and debris.
2. Upon completion of lead-related demolition or significant disturbance (>2 square feet per Work Area) of lead-based paint, the Owner's Consultant after verifying completion based on a visual inspection for dust and debris, may choose to further verify acceptable cleaning and decontamination by conducting wipe sampling of the affected surfaces for lead containing dust and contamination. Acceptable wipe sampling results are less than 5 micrograms of lead per square foot ($\mu\text{g}/\text{ft}^2$) for floors and less than 40 $\mu\text{g}/\text{ft}^2$ for window sills.
3. All interior building surfaces must be free of lead contamination above the clearance levels at the completion of each abatement or demolition Work Area and also for the entire building at completion of construction before release and return of the building to the Owner. Any additional cleaning and decontamination to meet the lead clearance standards is to be completed by the Contractor at no additional cost to the Owner.

C. Clearance Inspection and Testing after Asbestos Abatement

1. Once the Contractor's Supervisor has inspected the Work Area for completion of removal and decontamination, the Supervisor shall notify the Observation Service that the Work Area is ready for clearance inspection. The Contractor is obligated to notify the Observation Service 48 business hours in advance of the anticipated completion and readiness for inspection.
2. If the Observation Service determines that the removal and decontamination work has not been completely and adequately finished, the Contractor's supervisor will be notified of the unsatisfactory result and the Contractor is obligated to complete the removal and decontamination process until all asbestos has been removed and the entire Work Area is clean and free of all visual dust and debris. Costs for any additional removal and cleaning required to achieve acceptable clearance is to be borne solely by the Contractor.
3. Once the Observation Service verifies that the work including removal and decontamination has been acceptably completed by visual inspection, the Contractor's Supervisor will be notified as such and shall proceed with applying a lock down encapsulant to all surface areas within the Work Area.
4. After allowing for the complete drying of the lock down encapsulant, the Observation Service will conduct clearance air sampling and have the analysis completed by a qualified laboratory. The samples will be Phase Contrast Microscopy (PCM) methodology and analysis. Acceptable results are <0.01 f/cc of air.
5. Results that do not meet the acceptable levels based on selected clearance testing method are failed clearance tests and require the Contractor to re-clean and decontaminate the Work Area and re-apply lock down encapsulant at no additional cost to the Owner and then notify the Observation Service that the Work Area is ready for clearance testing again. The Contractor is solely responsible for any additional labor and analytical costs incurred by the Observation Service due to the failed clearance.

3.16 CLOSE-OUT

- A. All submittal and punch list items must be complete and provided to the Observation Service.

END OF SECTION

APPENDIX A
HAZARDOUS MATERIALS SUMMARY

BOWDITCH MIDDLE SCHOOL BUILDING D HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/Off-White, Smooth	Interior - Walls and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	24,000 SF
C	Wallboard/Joint Compound	White/Off-White	Interior - w/Vinyl Wall Covering	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
P	Wallboard/Joint Compound	Unfinished	Interior - Plenum	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
AA	Thermal System Insulation	White, Hard Pack, Elbow	Interior - Plenum	Class I	Friable (RACM when Removed)	2 SF
SS	Vinyl Roof Cap	White (Assume)	Exterior – HVAC Pit	Class II	Category I – Non-Friable	500 SF
VV	Insulation	White, Fire Door Ceiling Hatch	Interior – Break Room	Unclassified	Friable (RACM when Removed)	4 SF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
Outside	Beam Bracket	Metal	Tan	Intact	0.27	mg/cm ²
Outside	Pipe	Metal	Tan	Intact	0.05	mg/cm ²
Roof	Flashing	Metal	Brown	Intact	0	mg/cm ²
Preparation	Shelf	Metal	Red	Intact	0.5	mg/cm ²
Preparation	Shelf	Metal	Yellow	Intact	0.5	mg/cm ²

BOWDITCH MIDDLE SCHOOL BUILDING D HAZARDOUS MATERIALS SUMMARY

Room	Component	Substrate	Color	Condition	Pb	Units
Preparation	Shelf	Metal	Blue	Intact	0.03	mg/cm ²
Preparation	Door	Wood	Blue, Dark	Intact	0.5	mg/cm ²
Preparation	Door	Metal	White	Intact	0.07	mg/cm ²
Preparation	Cabinet	Vinyl	Brown	Intact	0.26	mg/cm ²
Corridor	Light Casing	Metal	Gray	Intact	0.05	mg/cm ²
Corridor	Beam	Wood	White	Intact	0.01	mg/cm ²
Corridor	Wall	Drywall	Beige	Intact	0.05	mg/cm ²
RM 2	Door	Drywall	Blue, Dark	Intact	0.14	mg/cm ²
RM 2	Door Frame	Wood	White	Intact	0.02	mg/cm ²
RM 2	Door	Wood	Blue, Dark	Intact	0.26	mg/cm ²
RM 2	Chalkboard	Other	Black	Intact	1.2	mg/cm²
RM 2	Beam Bracket	Metal	Beige	Intact	2.5	mg/cm²

Bold = Lead Based

Devices with Potential Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	172
Metal Halide/Sodium	Universal Waste	7
Batteries: Emergency Lights & Exit Signs	Universal Waste	6
Light Fixture Ballasts	Polychlorinated Biphenyls or E-waste	48

BOWDITCH MIDDLE SCHOOL BUILDING E HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/Off-White, Smooth	Interior - Wall and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	27,500 SF
C	Wallboard/Joint Compound	White/Off-White	Interior - w/Vinyl Wall Covering	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
P	Wallboard/Joint Compound	White/Off-White, Unfinished	Interior-Plenum	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
Q	Roofing Debris	Black, Grey	Exterior - Plenum	Class II	Category I - Non-Friable	200 SF
AA	Thermal System Insulation	White, Hard Pack, Elbow	Interior - Plenum	Class I	Friable (RACM when Removed)	8 SF
VV	Insulation	White, Fire Door Ceiling Hatch	Interior – Break Room	Unclassified	Friable (RACM when Removed)	4 SF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
Outside	Beam Bracket	Metal	Tan	Intact	0.27	mg/cm ²
Outside	Pipe	Metal	Tan	Intact	0.05	mg/cm ²
Roof	Flashing	Metal	Brown	Intact	0	mg/cm ²
Outside	Beam Bracket	Metal	Tan	Intact	3.2	mg/cm²
Roof	Hatch	Metal	Tan	Intact	0.01	mg/cm ²

BOWDITCH MIDDLE SCHOOL BUILDING E HAZARDOUS MATERIALS SUMMARY

Room	Component	Substrate	Color	Condition	Pb	Units
Preparation	Whiteboard	Other	White	Intact	4.6	mg/cm²
Preparation	Beam Bracket	Metal	White	Intact	0.19	mg/cm ²
Preparation	Beam	Wood	White	Intact	0.05	mg/cm ²
Preparation	Door Frame	Metal	White	Intact	0.05	mg/cm ²
Preparation	Door	Wood	Blue, Dark	Intact	0.7	mg/cm ²
RM 10	Door Frame	Wood	Blue, Dark	Intact	0.01	mg/cm ²
RM 10	Door	Wood	Blue, Dark	Intact	0.07	mg/cm ²
RM 10	Door Frame	Wood	White	Intact	0.09	mg/cm ²
Corridor	Cabinet	Metal	Blue, Dark	Intact	0.8	mg/cm ²
Corridor	Beam	Wood	White	Intact	0.01	mg/cm ²
RM 7	Beam Bracket	Metal	Beige	Intact	7.4	mg/cm²
RM 7	Door Frame	Wood	White	Intact	0.14	mg/cm ²
RM 7	Cabinet	Metal	Blue, Dark	Intact	1.5	mg/cm²
STORAGE	Pipe	Metal	White	Intact	0.1	mg/cm ²
Custodian	Sink	Porcelain	White	Intact	3.4	mg/cm²
Custodian	Hvac	Metal	Beige	Intact	0.04	mg/cm ²
Custodian	Pipe	Metal	Beige	Intact	0.07	mg/cm ²
RM 10 Storage	Pipe	Metal	Beige	Intact	0.02	mg/cm ²
RM 10 Storage	Pipe	Metal	Beige	Intact	0.09	mg/cm ²
Preparation	Cabinet	Vinyl	Brown	Intact	0.24	mg/cm ²
Preparation	Cabinet	Vinyl	Brown	Intact	0.26	mg/cm ²
Preparation	Shelf	Metal	Blue	Intact	0.06	mg/cm ²
Preparation	Shelf	Metal	Yellow	Intact	0.5	mg/cm ²
Preparation	Shelf	Metal	Red	Intact	0.5	mg/cm ²

Bold = Lead Based

**BOWDITCH MIDDLE SCHOOL
BUILDING E
HAZARDOUS MATERIALS SUMMARY**

Devices with Potential Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	209
Compact Fluorescent	Universal Waste	3
Metal Halide/Sodium	Universal Waste	4
Batteries: Emergency Lights & Exit Signs	Universal Waste	9
Light Fixture Ballasts	Polychlorinated Biphenyls or E-Waste	67
Smoke Detectors	Low-Level Radiation	8

BOWDITCH MIDDLE SCHOOL BUILDING F HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/Off-White, Smooth	Interior - Walls and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	29,000 SF
C	Wallboard/Joint Compound	White/Off-White	Interior - w/Vinyl Wall Covering	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
AA	Thermal System Insulation	White, Hard Pack, Elbow	Interior - Plenum	Class I	Friable (RACM when Removed)	8 SF
VV	Insulation	White, Fire Door Ceiling Hatch	Interior – Break Room	Unclassified	Friable (RACM when Removed)	4 SF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
Outside	Pipe	Metal	Tan	Intact	0.09	mg/cm ²
Outside	Beam Bracket	Metal	Tan	Intact	5.5	mg/cm²
Roof	Beam Bracket	Metal	Tan	Intact	1.2	mg/cm²
Preparation	Cabinet	Vinyl	Brown	Intact	0.4	mg/cm ²
Preparation	Shelf	Metal	Blue	Intact	0.04	mg/cm ²
Preparation	Shelf	Metal	Green	Intact	0.4	mg/cm ²
Preparation	Shelf	Metal	Red	Intact	0.5	mg/cm ²
Preparation	Cabinet	Metal	Beige	Intact	0.01	mg/cm ²
Preparation	Cabinet	Vinyl	Brown	Intact	0.27	mg/cm ²
Corridor	Column	Wood	White	Intact	0.01	mg/cm ²
RM 15	Door Frame	Metal	White	Intact	0.06	mg/cm ²
Electrical	Pipe	Metal	Gray	Intact	0.4	mg/cm ²

BOWDITCH MIDDLE SCHOOL BUILDING F HAZARDOUS MATERIALS SUMMARY

Room	Component	Substrate	Color	Condition	Pb	Units
Storage 2	HVAC	Metal	Beige	Intact	0.03	mg/cm ²
Storage 2	Shelf	Metal	Beige	Intact	0.01	mg/cm ²
Storage 2	Cabinet	Vinyl	Brown	Intact	0.19	mg/cm ²
Storage 1	Cabinet	Vinyl	Brown	Intact	0.04	mg/cm ²
Storage 1	Pipe	Metal	Beige	Intact	0.07	mg/cm ²
Storage 1	Hvac	Metal	Beige	Intact	0.07	mg/cm ²
Storage 1	Beam Bracket	Metal	Beige	Intact	3.1	mg/cm²

Bold = Lead Based

Devices with Potential Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	195
Compact Fluorescent	Universal Waste	2
Metal Halide/Sodium	Universal Waste	2
Batteries: Emergency Lights & Exit Signs	Universal Waste	6
Light Fixture Ballasts	Polychlorinated Biphenyls or E-Waste	64
Smoke Detectors	Low-Level Radiation	14

BOWDITCH MIDDLE SCHOOL BUILDING G HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/White	Interior - Walls and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	29,500 SF
M	Cement	Black	Interior - Table Top, Counter	Class II	Category II - Non-Friable	500 SF
P	Thermal System Insulation	Hard Pack, Elbows (Assumed)	Interior - Plenum	Class I	Friable (RACM when Removed)	15 SF
R	Wallboard/Joint Compound	Unfinished (Assumed)	Interior - Plenum	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
S	Mastic	Tan, Duct (Assumed)	Interior - Plenum	Class II	Category I - Non-Friable	50 SF
ZZ	Insulation	White, Fire Door Ceiling Hatch	Interior – Break Room	Unclassified	Friable (RACM when Removed)	4 SF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
Inside	Door	Metal	White	Intact	0.1	mg/cm ²
Inside	Door	Metal	White	Intact	0.1	mg/cm ²
Inside	Counter	Other	Blue	Intact	0.1	mg/cm ²
Inside	Counter	Other	Black	Intact	0.1	mg/cm ²
Inside	Shelf	Other	Blue	Intact	0.1	mg/cm ²
Inside	Shelf	Other	Blue	Intact	0.2	mg/cm ²
Inside	Other	Other	White	Intact	0.1	mg/cm ²
Inside	Other	Other	White	Intact	0.2	mg/cm ²

BOWDITCH MIDDLE SCHOOL BUILDING G HAZARDOUS MATERIALS SUMMARY

Room	Component	Substrate	Color	Condition	Pb	Units
Inside	Cabinet	Metal	Dk-Blue	Intact	0.7	mg/cm ²
Inside	Cabinet	Metal	Dk-Blue	Intact	0.9	mg/cm ²
Inside	Cabinet	Metal	White	Intact	0.1	mg/cm ²
Inside	Cabinet	Metal	Green	Intact	0.1	mg/cm ²
Inside	HVAC	Metal	White	Intact	0.1	mg/cm ²
Inside	HVAC	Metal	White	Intact	0.1	mg/cm ²
Inside	Other	Metal	White	Intact	0.5	mg/cm ²
Inside	Other	Metal	White	Intact	0.4	mg/cm ²
Exterior	Pipe	Metal	Tan	Intact	0.2	mg/cm ²
Exterior	Sign	Metal	White	Intact	0.01	mg/cm ²

Devices with Potential Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	154
Metal Halide/Sodium	Universal Waste	1
Batteries: Emergency Lights & Exit Signs	Universal Waste	6
Light Fixture Ballasts	Polychlorinated Biphenyls or E-Waste	65
Smoke Detectors	Low-Level Radiation	11

BOWDITCH MIDDLE SCHOOL BUILDING H HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/White	Interior - Walls and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	25,800 SF
C	Wallboard/Joint Compound	White/White	Interior - w/Vinyl Wall Covering	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
P	Thermal System Insulation	Hard Pack, Elbows	Interior	Class I	Friable (RACM when Removed)	15 SF
R	Wallboard/Joint Compound	White/White, Unfinished (Damaged)	Interior - Plenum	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
UU	Insulation	White, Fire Door Ceiling Hatch	Interior – Break Room	Unclassified	Friable (RACM when Removed)	4 SF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
Inside	Cabinet	Other	Brown	Intact	0.3	mg/cm ²
Inside	Shelf	Metal	Green	Intact	0.8	mg/cm ²
Inside	Shelf	Metal	Red	Intact	0.8	mg/cm ²
Inside	Cabinet	Metal	White	Intact	0.1	mg/cm ²
Inside	Cabinet	Metal	Red	Intact	0.1	mg/cm ²
Custodian	Wall	Drywall	White	Intact	0.11	mg/cm ²
Custodian	Door Frame	Wood	White	Intact	0.1	mg/cm ²

BOWDITCH MIDDLE SCHOOL BUILDING H HAZARDOUS MATERIALS SUMMARY

Room	Component	Substrate	Color	Condition	Pb	Units
Custodian	Door	Wood	Blue, Dark	Intact	0.21	mg/cm ²
Custodian	Sink	Porcelain	White	Intact	15.7	mg/cm²
Custodian	Pipe	Metal	Brown	Intact	0.08	mg/cm ²
Custodian	Pipe	Metal	White	Intact	0.14	mg/cm ²
Custodian	Hvac	Metal	White	Intact	0.01	mg/cm ²
Rm 24	Ceiling	Fissured	White	Intact	0.01	mg/cm ²
Rm 24	Floor Outlet	Metal	Varnish	Intact	9.6	mg/cm²
Corridor	Wall Panel	Laminate	Beige	Intact	0.01	mg/cm ²
Corridor	Beam	Wood	White	Intact	0.01	mg/cm ²
Rm 20	Cabinet	Metal	Blue, Dark	Intact	0.6	mg/cm ²
Storage	Pipe	Metal	White	Intact	0.23	mg/cm ²
Storage	Parking Stripe	Metal	White	Intact	0.14	mg/cm ²
Preparation	Shelf	Metal	Blue	Intact	0.13	mg/cm ²
Preparation	Shelf	Metal	Red	Intact	0.6	mg/cm ²
Preparation	Shelf	Metal	Green	Intact	0.4	mg/cm ²
Preparation	Cabinet	Vinyl	Brown	Intact	0.26	mg/cm ²
Preparation	Cabinet	Vinyl	Brown	Intact	0.3	mg/cm ²
Rm 21	Floor Outlet	Metal	Varnish	Intact	6.9	mg/cm²
Exterior	Light Case	Metal	White	Intact	0.01	mg/cm ²

Bold = Lead Based

Devices with Potential Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	244
Compact Fluorescent	Universal Waste	2
Metal Halide/Sodium	Universal Waste	3
Batteries: Emergency Lights & Exit Signs	Universal Waste	6
Light Fixture Ballasts	Polychlorinated Biphenyls or E-Waste	88
Smoke Detectors	Low-Level Radiation	12

BOWDITCH MIDDLE SCHOOL BUILDING I HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/White, Smooth	Interior - Walls and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	23,000 SF
C	Wallboard/Joint Compound	White/Beige	Interior - w/Vinyl Wall Covering	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
P	Thermal System Insulation	White-Grey, Hard Pack, Elbows	Interior - Plenum	Class I	Friable (RACM when Removed)	15 SF
R	Wallboard/Joint Compound	White/Beige, Unfinished (Damaged)	Interior - Plenum	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
S	Mastic	Tan, Duct	Interior - Plenum	Class II	Category I - Non-Friable	50 SF
VV	Insulation	White, Fire Door Ceiling Hatch	Interior – Break Room	Unclassified	Friable (RACM when Removed)	4 SF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
29	Door	Wood	Blue, Dark	Intact	0.6	mg/cm ²
29	Door Frame	Metal	White	Intact	0.09	mg/cm ²
29	Whiteboard	Other	White	Intact	0.01	mg/cm ²
29	Window Frame	Wood	White	Intact	0.18	mg/cm ²
25	Door Frame	Wood	White	Intact	0.16	mg/cm ²

BOWDITCH MIDDLE SCHOOL BUILDING I HAZARDOUS MATERIALS SUMMARY

Room	Component	Substrate	Color	Condition	Pb	Units
25	Whiteboard	Other	White	Intact	4.8	mg/cm²
25	Column	Wood	Beige	Intact	0.01	mg/cm ²
27	Door	Wood	Blue, Dark	Intact	0.4	mg/cm ²
27	Window Frame	Wood	White	Intact	0.03	mg/cm ²
Storage Closet	Pipe	Wood	White	Intact	0.04	mg/cm ²
Storage	Cabinet	Metal	Blue, Dark	Intact	0.8	mg/cm ²
Electrical	Pipe	Metal	White	Intact	1.8	mg/cm²
Electrical	Cabinet	Metal	White	Intact	0.03	mg/cm ²
Electrical	Cabinet	Metal	Gray	Intact	0.13	mg/cm ²
Electrical	Baseboard	Wood	Brown	Intact	0.02	mg/cm ²
Exterior	Pole	Metal	Tan	Intact	0.04	mg/cm ²
Exterior	Column	Concrete	Tan	Intact	0.01	mg/cm ²
Exterior	Floor	Concrete	Red	Intact	0.01	mg/cm ²
Exterior	Beam Bracket	Metal	Tan	Intact	0.21	mg/cm ²

Bold = Lead Based

Devices with Potential Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	148
Metal Halide/Sodium	Universal Waste	2
Batteries: Emergency Lights & Exit Signs	Universal Waste	5
Light Fixture Ballasts	Polychlorinated Biphenyls or E-Waste	51
Smoke Detectors	Low-Level Radiation	12

BOWDITCH MIDDLE SCHOOL BUILDING J HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	BAAQMD CATEGORY	ESTIMATED QUANTITY
A	Wallboard/Joint Compound	White/Off-White, Smooth	Interior - Wall and Ceiling	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	31,750 SF
C	Wallboard/Joint Compound	White/Off-White	Interior - w/Vinyl Wall Covering	Class II	NA (Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	See A Above
L	Mastic	Tan, Duct	Interior - Plenum	Class II	Category I - Non-Friable	80 SF
GG	Glazing	Grey, Window	Interior/Exterior	Class II	Category I - Non-Friable	400 LF

Lead

Room	Component	Substrate	Color	Condition	Pb	Units
Bldg Media Center	Door	Wood	Blue, Dark	Intact	0.4	mg/cm ²
Bldg Media Center	Door Frame	Wood	White	Intact	0.05	mg/cm ²
Bldg Media Center	Door	Metal	White	Intact	0.27	mg/cm ²
Bldg Media Center	Wall	Other	Beige	Intact	0.9	mg/cm ²
Bldg Media Center	Wall Panel	Vinyl	Beige	Intact	0.01	mg/cm ²
Bldg Media Center	Stairs	Wood	Beige	Intact	0.01	mg/cm ²
Bldg Media Center	Counter	Wood	Blue, Dark	Intact	0.01	mg/cm ²
Bldg Media Center	Wall Panel	Vinyl	Beige	Intact	1	mg/cm²
Bldg Media Center	Cabinet	Metal	Blue, Dark	Intact	0.7	mg/cm ²
Bldg Media Center	Cabinet	Wood	Blue, Dark	Intact	0.04	mg/cm ²
Bldg Media Center	Shelf	Wood	Blue, Dark	Intact	0.02	mg/cm ²
Bldg Media Center	Beam Bracket	Metal	White	Intact	4.7	mg/cm²

BOWDITCH MIDDLE SCHOOL BUILDING J HAZARDOUS MATERIALS SUMMARY

Room	Component	Substrate	Color	Condition	Pb	Units
Bldg Media Center	Counter	Vinyl	Brown	Intact	0.05	mg/cm ²
Kbow	Beam	Wood	Beige	Intact	0.01	mg/cm ²
Kbow	Wall Panel	Wood	Green	Intact	0.02	mg/cm ²
Kbow	Hvac	Metal	Beige	Intact	0.01	mg/cm ²
Kbow	Window Frame	Metal	White	Intact	0.12	mg/cm ²
Resource Coordinator	Shelf	Vinyl	Brown	Intact	0.23	mg/cm ²
Resource Coordinator	Door	Wood	Blue, Dark	Intact	0.01	mg/cm ²
Resource Coordinator	Door	Wood	Blue, Dark	Intact	0.7	mg/cm ²
Resource Coordinator	Door Frame	Metal	White	Intact	0.14	mg/cm ²
Corridor	Door	Wood	Blue, Dark	Intact	0.01	mg/cm ²
Corridor	Cabinet	Vinyl	Brown	Intact	0.21	mg/cm ²
Corridor	Cabinet	Vinyl	Brown	Intact	0.3	mg/cm ²
Corridor	Trim	Wood	White	Intact	0.03	mg/cm ²
Exterior	Pipe	Metal	Tan	Intact	0.2	mg/cm ²

Bold = Lead Based

Devices with Potential Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	261
Metal Halide/Sodium	Universal Waste	9
Batteries: Emergency Lights & Exit Signs	Universal Waste	2
Light Fixture Ballasts	Polychlorinated Biphenyls or E-Waste	84

BOWDITCH MIDDLE SCHOOL BUILDING D to J: ROOF HAZARDOUS MATERIALS SUMMARY

Asbestos

- No asbestos was detected in the 7 samples collected and analyzed in 2026 and no asbestos was detected in all samples collected in 2022.

Lead

- Lead-based Paint and Lead-Containing Paint was detected in 2022 and is listed in other Hazardous Materials Summaries and XRF Sequential Reports.

Devices with Potential Hazardous Materials

- None

END OF SECTION