

August 7, 2023

Ceramics Lab – Building Materials Asbestos Data Summary

The California State Polytechnic University, Humboldt (Humboldt) Facilities Management (FM) Planning, Construction & Design (PDC) division collected bulk samples of suspect Asbestos Containing Material (ACM) at the Ceramics Lab (CERAM) building located at the following street address:

Ceramics Lab (Building 074)
1760 LK Wood Blvd, Arcata, CA 95521

Bulk sampling of suspect ACM was conducted throughout the exterior and interior of the CERAM building on July 12, 2023. This memorandum summarizes the laboratory analytical findings associated with this sampling and provides conclusions based on the lab data.

Project Site

The CERAM building was originally built in 1950 and has footprint of approximately 7,000 square feet (SF). The CERAM exterior (foundation, walls, and roof) and interior (floors, walls, and ceilings) are herein defined as the project site.

The building is supported by concrete, steel, and wood structural components built on a concrete slab foundation. The exterior siding is a combination of wood shiplap, wood composite panel, and/or stucco. Interior floors consist of sealed and/or painted concrete slab. The roof consists of a bituminous rolled and composite shingle roofing systems overlaid on wooden roof deck. Roof penetrations throughout are sealed with mastic and/or caulking. Interior walls consist of exposed structural members, plywood paneling, cementitious paneling, or drywall. Interior ceilings consist of exposed framing (main ceramics lab), drywall hard lid (restrooms), wooden drop ceiling finished with acoustical ceiling tiles (administrative spaces), or cementitious panels (kiln area). Photographs of the project site are attached (Attachment A).

Survey Description

A total 34 suspect ACM samples were collected throughout the project site, some samples consisting of multiple layers of unique materials. The samples collected at the project site are listed in Table 1 (page 2). The locations of bulk samples collected at the project site are depicted on Figure 1 (Attachment B). The distribution of asbestos materials at the project site is depicted on Figure 2 (Attachment B).

Sampling was conducted by a California Department of Industrial Relations, Division of Occupational Safety and Health (Cal/OSHA) Certified Asbestos Consultant (Scott Harris, CAC #11-4713). The ACM sampling was conducted in general conformance with the United States Environmental Protection Agency (USEPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations governing facility demolition.

Asbestos Findings

Bulk samples collected from the project site were sent to SGS Forensic Laboratories located in Hayward, California. Samples were analyzed for asbestos content via Polarized Light Microscopy (PLM) using USEPA Method 600/R-93-Roof. The PLM data are summarized in Table 1.

Table 1 includes the sample location, material type, laboratory result, and applicable regulatory designations for each collected sample. Materials that were reported by the laboratory to be nondetect (i.e., no asbestos detected) are listed as "ND".

Samples reported to contain asbestos are identified in Table 1 by the asbestos content (percent asbestos) and highlighted using bold text. The approximate locations of the materials reported to contain asbestos are shown on Figure 2 (Attachment B). The PLM analytical reports are attached (Attachment C).

Table 1 – Asbestos Data Summary						
Sample Number	Location	Material	Laboratory Result	USEPA Category	Cal/OSHA Work Class	Waste Designation
CERAM-1	Rm 101 NW Center	Concrete Slab (Grey)	ND	NA	NA	Not Asbestos Waste
CERAM-2	Rm 111 SE Center	Concrete Slab (Grey)	ND	NA	NA	Not Asbestos Waste
CERAM-3	SW Patio Kiln	TSI, Kiln Batt Insulation (White)	ND	NA	NA	Not Asbestos Waste
CERAM-4	Rm RR-1A S Window	Window Putty (White)	ND	NA	NA	Not Asbestos Waste
CERAM-5	Rm 108 N Kiln Heat Shield	TSI, Hood Batt Insulation (White)	ND	NA	NA	Not Asbestos Waste
CERAM-6	Rm 108 N Kiln Heat Shield	Cementitious Heat Shield (Grey)	ND	NA	NA	Not Asbestos Waste
CERAM-7	Rm 108 NE Wall	Drywall (White)	ND	NA	NA	Not Asbestos Waste
CERAM-8	Rm 108 NE Door	Drywall (White)	ND	NA	NA	Not Asbestos Waste
CERAM-9	Rm 108 S Center Ceiling	Cementitious Panel (Grey)	10% Chrysotile	Category II Nonfriable ACM	Class II	Nonhazardous Asbestos Waste
CERAM-10	Rm 108 S Wall	Hardie Backer Board (Tan)	ND	NA	NA	Not Asbestos Waste
CERAM-11	Rm 107 S Wall Kitchen Counter Backsplash	Fibrous Backsplash (Brown) + Mastic (Gold)	ND	NA	NA	Not Asbestos Waste
CERAM-12	Rm RR-1B SE Corner	Drywall + Joint Compound (White)	ND	NA	NA	Not Asbestos Waste
CERAM-13	Rm RR-1B SE Corner	4" Base (Black) + Mastic (Gold)	ND	NA	NA	Not Asbestos Waste
CERAM-14	RR Hallway E Wall	Drywall + Joint Compound (White)	ND	NA	NA	Not Asbestos Waste
CERAM-15	Rm 102 SW	Concrete Slab (Grey)	ND	NA	NA	Not Asbestos Waste
CERAM-16	Rm 102 Ceiling SW	12"x12" ACT (White/tan, nail-on)	ND	NA	NA	Not Asbestos Waste

Table 1 – Asbestos Data Summary						
Sample Number	Location	Material	Laboratory Result	USEPA Category	Cal/OSHA Work Class	Waste Designation
CERAM-17	Rm E-1 E Wall	Drywall + Joint Compound (White)	ND	NA	NA	Not Asbestos Waste
CERAM-18	Rm 111 SE Corner	Drywall + Joint Compound (White)	<1% (Trace)	Presume ACM	Presume Class II Asbestos Work	Nonhazardous Asbestos Waste
CERAM-19	SW Patio Kiln	Fire Brick (Tan)	ND	NA	NA	Not Asbestos Waste
CERAM-20	Exterior Lower Flat Roof S Center Vent	Roof Mastic (Black)	ND	NA	NA	Not Asbestos Waste
CERAM-21	Exterior Lower Flat Roof SE Skylight	Roof Mastic (Black)	ND	NA	NA	Not Asbestos Waste
CERAM-22	Exterior Lower Flat Roof W Center S Kiln Vent	Roof Mastic (Black)	ND	NA	NA	Not Asbestos Waste
CERAM-23	Exterior Lower Flat Roof E Center N Kiln Vent	Roof Mastic (Black)	ND	NA	NA	Not Asbestos Waste
CERAM-24	Exterior NW Lower Flat Roof to Wall Flashing	Roof Mastic (Black) + Sealant (Clear)	ND	NA	NA	Not Asbestos Waste
CERAM-25	Exterior Lower Flat Roof N Exhaust Fan	Roof Mastic (Black)	ND	NA	NA	Not Asbestos Waste
CERAM-26	Exterior Lower Flat Roof SW Skylight	Roof Mastic (Black)	ND	NA	NA	Not Asbestos Waste
CERAM-27	Exterior NW Comp Roof-Roof to Wall Flashing	Roof Mastic (Black)	ND	NA	NA	Not Asbestos Waste
CERAM-28	Exterior Upper Roof W Vent	Roof Mastic (Black)	ND	NA	NA	Not Asbestos Waste
CERAM-29	Exterior Upper Roof NW HVAC Hood	Roof Mastic (Black)	ND	NA	NA	Not Asbestos Waste
CERAM-30	Exterior Lower Flat Roof N Center	Rolled Roofing (Red/Black)	ND	NA	NA	Not Asbestos Waste
CERAM-31	Exterior Lower Flat Roof SW	Rolled Roofing (Red/Black)	ND	NA	NA	Not Asbestos Waste
CERAM-32	Exterior Upper Roof W Center	Rolled Roofing (Red/Black)	ND	NA	NA	Not Asbestos Waste
CERAM-33	Exterior Comp Roof SW	Comp Shingle (Red/Black)	ND	NA	NA	Not Asbestos Waste

Table 1 – Asbestos Data Summary						
Sample Number	Location	Material	Laboratory Result	USEPA Category	Cal/OSHA Work Class	Waste Designation
CERAM-34	Exterior Comp Roof SE	Comp Shingle (Red/Black)	ND	NA	NA	Not Asbestos Waste
Notes: <ul style="list-style-type: none"> • ACM = Asbestos Containing Material (material reported to contain greater than 1% asbestos) • NA = Not applicable • ND = Nondetect (i.e., no asbestos fibers reported above the laboratory detection limit) • RACM = Regulated Asbestos Containing Material (friable and greater than 1% asbestos) • Individual materials comprising multi-layered samples are separated by a "+" sign 						

Conclusions for Asbestos

As listed in Table 1, two (2) of the samples were reported to contain asbestos. These samples represent two (2) homogeneous areas of material distributed throughout the project site as shown on Figure 2 (Attachment B). All other sampled materials analyzed via PLM were reported to be ND. See attached PLM laboratory analytical reports (Attachment C).

Materials reported to contain greater than 1% asbestos are classified as either ACM or RACM depending on each material's physical characteristics. Material containing greater than 0.1% asbestos is designated by Cal/OSHA as Asbestos Containing Construction Material (ACCM). Asbestos materials that may be disturbed by the project shall be removed by a licensed abatement contractor prior to other site work.

Nonfriable ACM is classified as nonhazardous asbestos waste, so long as the material is not rendered friable during removal. Nonfriable ACM shall be reclassified as Regulated ACM (RACM), if removed using mechanical means, or otherwise rendered friable. Asbestos is not federally regulated as a hazardous waste under the Resource Conservation and Recovery Act (RCRA). Friable material containing greater than 1% asbestos (e.g., RACM) is regulated as a hazardous waste in California, thus is classified as a non-RCRA California hazardous waste. If other constituents of concern are presumed to be present onsite, then the demolition waste stream must be representatively sampled to determine the concentration of such constituents in that waste. Transportation and disposal requirements shall be determined based on the waste characterization data.

Any suspect ACM not identified in this memorandum that is discovered during site work should be presumed to contain asbestos until sampled and proven otherwise. If suspect ACM is identified at the project site for which there is no existing data, then work in that area shall stop, the material wetted, and access to the area restricted until the suspect ACM can be appropriately sampled and characterized. Please contact FM PDC with any questions regarding the information contained in this memorandum.

Thank you,
Facilities Management - Planning, Design & Construction



Scott Harris, CAC, CDPH
 (707) 826-5904
scott.harris@humboldt.edu

Attachments:

- Attachment A – Site Photographs
- Attachment B – Sample Location and Asbestos Distribution Figures
- Attachment C – Laboratory Data



Photograph 1 – CERAM Exterior – East façade



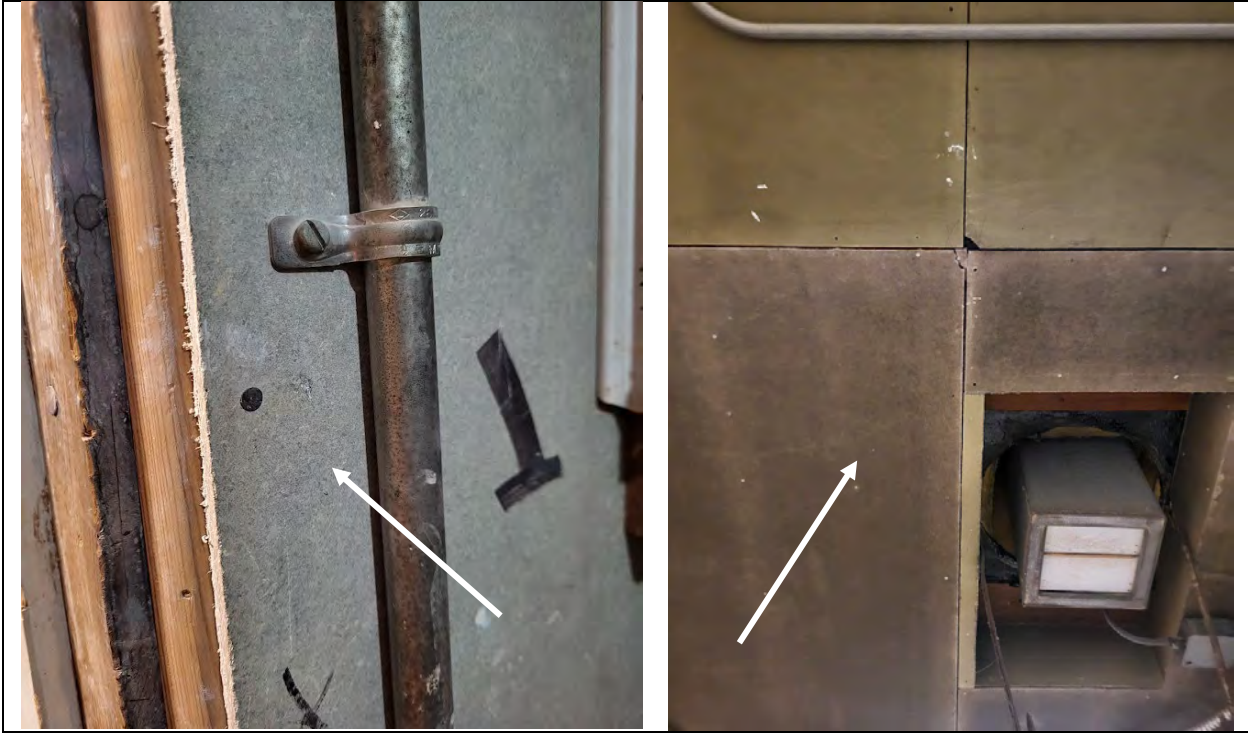
Photograph 2 – CERAM Interior – Main classroom looking east



Photograph 3 – CERAM Exterior – Exterior kiln enclosure



Photograph 4 – CERAM Exterior – South façade and roof



Photograph 5 – CERAM Interior – Cementitious panel (typical) reported to be ACM



Photograph 6 – CERAM Interior – Room 108 Cementitious panel (ACM) at ceiling



Photograph 7 – CERAM Interior – Cementitious panel (ACM) at walls and ceiling (typical)



Photograph 8 – CERAM Interior – Drywall and joint compound walls and ceiling (typical) reported to contain asbestos



Photograph 9 – CERAM Interior – Drywall and joint compound walls and ceiling (typical) reported to contain asbestos

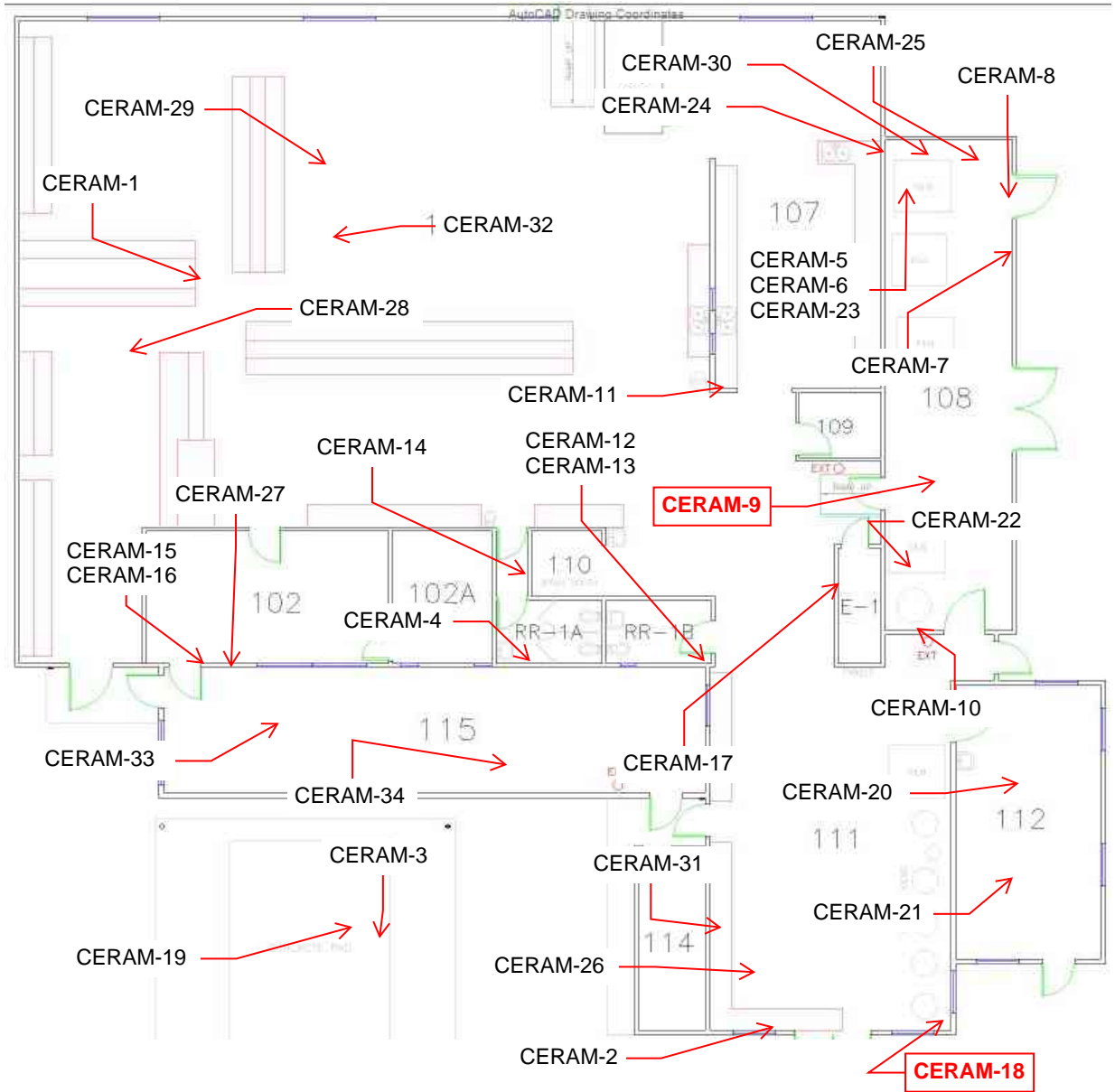


Photograph 10 – CERAM Interior – Drywall and joint compound wall (typical) reported to contain asbestos

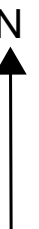
Attachment B

Figure 1 - Sample Location Map

Ceramics Lab (074)



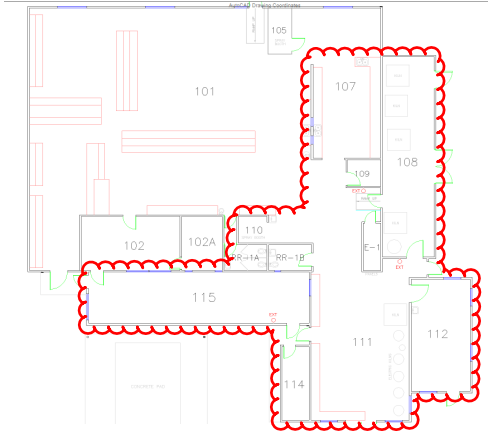
- Notes:
- All locations and measurements approximate
 - Not to scale
 - CERAM - # = Sample Location
 - **Out lined box** + **Bold lettering** = Material reported to contain asbestos
 - - - - - = Drywall wall associated with joint compound on walls reported to contain asbestos
 - // // // = Drywall wall associated with joint compound on ceiling reported to contain asbestos
 - ~~~~~ = Cementitious paneling on walls reported to contain asbestos
 - [Green Grid] = Cementitious paneling on ceiling reported to contain asbestos



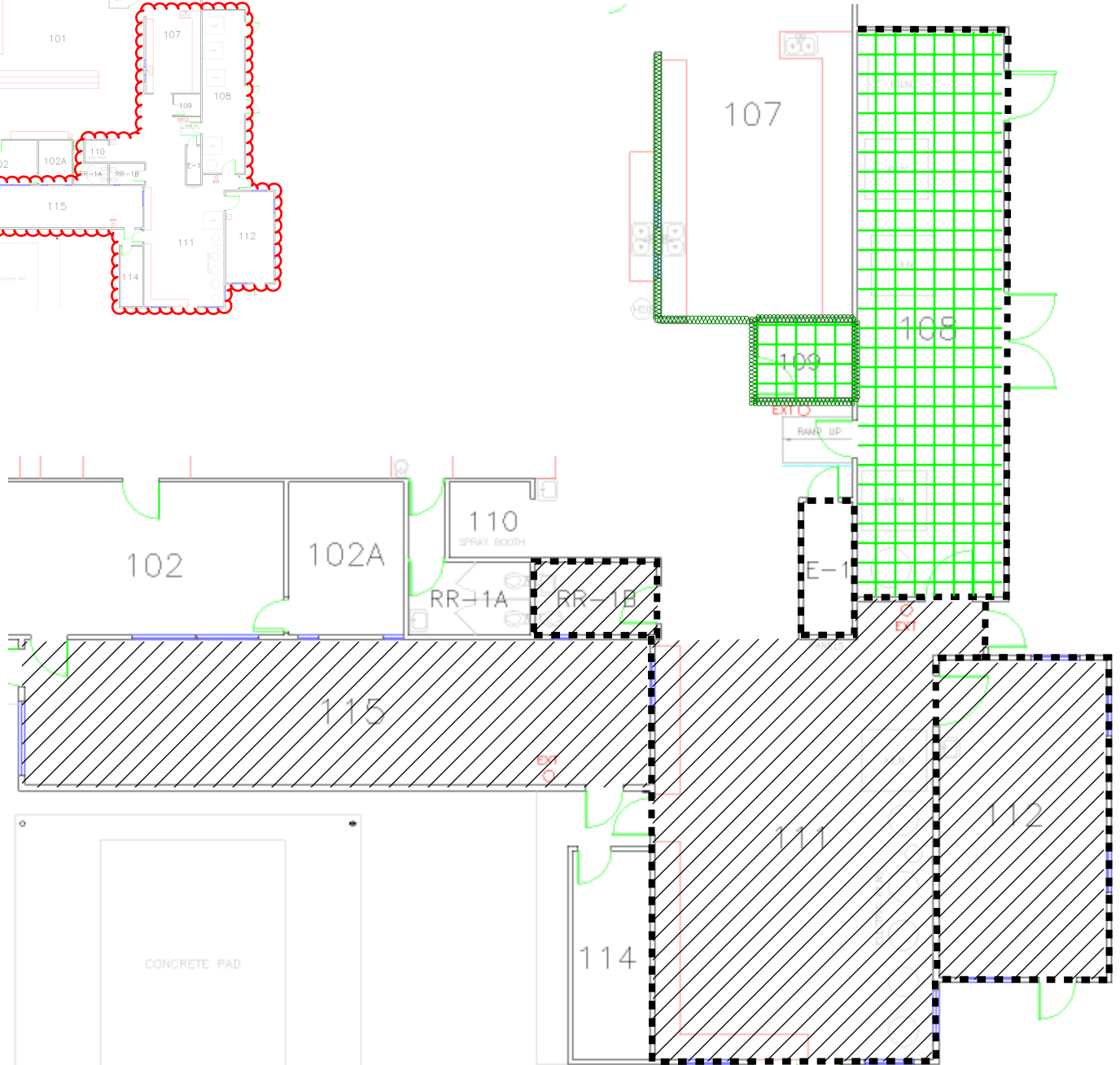
Attachment B

Figure 2 - Distribution & Quantity Detail Ceramics Lab (074)

Site Overview



Detail View



Notes:

- All locations and measurements approximate
- Not to scale
- CERAM - # = Sample Location
- **Out lined box** + **Bold lettering** = Material reported to contain asbestos
- **-----** = Drywall wall associated with joint compound on walls reported to contain asbestos
- **////** = Drywall wall associated with joint compound on ceiling reported to contain asbestos
- **~~~~~** = Cementitious paneling on walls reported to contain asbestos
- **|||||** = Cementitious paneling on ceiling reported to contain asbestos
- Approximately 4500 SF of drywall associated with joint compound reported to contain asbestos
- Approximately 900 SF of cementitious panel reported to contain asbestos



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

Cal-Poly Humboldt (State University)
Scott Harris
1 Harpst Street
Plan Operations
Arcata, CA 95521

Client ID: 2087
Report Number: B349631
Date Received: 07/17/23
Date Analyzed: 07/19/23
Date Printed: 07/20/23
First Reported: 07/19/23

Job ID/Site: PO# 1127193/XPL298; FM PDC / PLY 106 - Ceramics Lab (075) - 1770 LK Wood Blvd
Arcata Ca 95521

SGSFL Job ID: 2087-1
Total Samples Submitted: 34
Total Samples Analyzed: 34

Date(s) Collected:

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
CERAM-1	12677678						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
CERAM-2	12677679						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
CERAM-3	12677680						
Layer: White Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace) Fibrous Glass (99 %)							
CERAM-4	12677681						
Layer: Off-White Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
CERAM-5	12677682						
Layer: White Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace) Fibrous Glass (99 %)							
CERAM-6	12677683						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
CERAM-7	12677684						
Layer: White Drywall			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)							
CERAM-8	12677685						
Layer: White Drywall			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
CERAM-9	12677686						
Layer: Grey Semi-Fibrous Cementitious Materia		Chrysotile	10 %				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
Cellulose (Trace)							
CERAM-10	12677687						
Layer: Tan Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (15 %)	Fibrous Glass (Trace)						
CERAM-11	12677688						
Layer: Brown Semi-Fibrous Material			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (25 %)							
CERAM-12	12677689						
Layer: White Drywall			ND				
Layer: Off-White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
CERAM-13	12677690						
Layer: Black Non-Fibrous Material			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
CERAM-14	12677691						
Layer: White Drywall			ND				
Layer: Off-White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
CERAM-15	12677692						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
CERAM-16	12677693						
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (95 %)							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
CERAM-17	12677694						
Layer: White Drywall			ND				
Layer: Off-White Joint Compound			ND				
Layer: Drywall Tape			ND				
Layer: Off-White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
CERAM-18	12677695						
Layer: White Drywall			ND				
Layer: Off-White Joint Compound		Chrysotile	Trace				
Layer: Drywall Tape			ND				
Layer: Off-White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (20 %)	Fibrous Glass (10 %)						
CERAM-19	12677696						
Layer: Off-White Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
CERAM-20	12677697						
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (5 %)	Fibrous Glass (2 %)						
CERAM-21	12677698						
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (10 %)	Fibrous Glass (Trace)						
CERAM-22	12677699						
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (10 %)	Fibrous Glass (Trace)						
CERAM-23	12677700						
Layer: Black Mastic			ND				
Layer: Black Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (10 %)	Fibrous Glass (Trace)						
CERAM-24	12677701						
Layer: Black Mastic			ND				
Layer: Black Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)	Fibrous Glass (Trace)						

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
CERAM-25	12677702						
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (10 %)	Fibrous Glass (Trace)						
CERAM-26	12677703						
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (10 %)	Fibrous Glass (Trace)						
CERAM-27	12677704						
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (10 %)	Fibrous Glass (Trace)						
CERAM-28	12677705						
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (10 %)	Fibrous Glass (Trace)						
CERAM-29	12677706						
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (10 %)	Fibrous Glass (Trace)						
CERAM-30	12677707						
Layer: Red Roof Shingle			ND				
Layer: Black Roof Shingle			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (55 %)	Fibrous Glass (10 %)						
CERAM-31	12677708						
Layer: Red Roof Shingle			ND				
Layer: Black Roof Shingle			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (55 %)	Fibrous Glass (10 %)						
CERAM-32	12677968						
Layer: Red Roof Shingle			ND				
Layer: Black Roof Shingle			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (55 %)	Fibrous Glass (10 %)						
CERAM-33	12677969						
Layer: Red Roof Shingle			ND				
Layer: Black Roof Shingle			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (55 %)	Fibrous Glass (10 %)						

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
CERAM-34	12677970						
Layer: Red Roof Shingle			ND				
Layer: Black Roof Shingle			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (55 %)	Fibrous Glass (10 %)						

Note: Job ID, Site updated



Maria Casper, 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. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. 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.



Analysis Request Form (COC)

Client Name & Address: Cal Poly Humboldt Facilities Management 1 Harpst Street, Arcata, CA 95521-8299		Client No.: 2087	PO / Job#: FM PDC / PLY106	Date: 07/13/2023
Contact: Scott Harris		Phone: (707) 826-5904	Turn Around Time: Same Day / 1Day / <input checked="" type="checkbox"/> 2Day / 3Day / 4Day / 5Day	
E-mail: ssh11@humboldt.edu, jrb20@humboldt.edu		<input type="checkbox"/> PCM: <input type="checkbox"/> NIOSH 7400A / <input type="checkbox"/> NIOSH 7400B <input type="checkbox"/> Rotometer <input checked="" type="checkbox"/> PLM: <input checked="" type="checkbox"/> Standard / <input type="checkbox"/> Point Count 400 - 1000 / <input type="checkbox"/> CARB 435		
Site Name: Ceramics Lab (074)		<input type="checkbox"/> TEM Air: <input type="checkbox"/> AHERA / <input type="checkbox"/> Yamate2 / <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> TEM Bulk: <input type="checkbox"/> Quantitative / <input type="checkbox"/> Qualitative / <input type="checkbox"/> Chatfield <input type="checkbox"/> TEM Water: <input type="checkbox"/> Potable / <input type="checkbox"/> Non-Potable / <input type="checkbox"/> Weight % <input type="checkbox"/> TEM Dust: <input type="checkbox"/> D5755 (microvac) / <input type="checkbox"/> D6480 (wipe)		
Site Location: 1760 LK Wood Blvd, Arcata, CA 95521		<input type="checkbox"/> AQ Particle Identification (PLM LAB) <input type="checkbox"/> PLM Opaques/Soot <input type="checkbox"/> Particle Identification (TEM LAB) <input type="checkbox"/> Special Project <input type="checkbox"/> Metals Analysis Matrix: Method: Analytes:		
Comments: CF: 607022 HM705 D30037 - - PLY106. Please send invoices to above email addresses.				<input type="checkbox"/> Silica in Air <input type="checkbox"/> w/Gravimetry <input type="checkbox"/> Quartz Only

Sample ID	Date / Time	Sample Location / Description	FOR AIR SAMPLES ONLY				Sample Area / Air Volume
			Type	Time On/Off	Avg LPM	Total Time	
See Attachment A	07/12/23	See Attachment A	A P C	NA	NA	NA	NA
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				

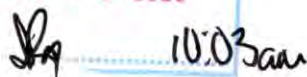
Sampled By: SH	Date/Time: As above	Shipped Via: <input type="checkbox"/> Fed Ex <input checked="" type="checkbox"/> UPS <input type="checkbox"/> US Mail <input type="checkbox"/> Courier <input type="checkbox"/> Drop Off <input type="checkbox"/> Other:	
Relinquished By: Scott Harris	Date / Time: 07/13/2023 17:45:18	Relinquished By:	Date / Time:
Received By: <i>UPS</i>	Date / Time: JUL 17 2023 10:00am	Received By:	Date / Time:
Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No	Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No	Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No	Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No

SGS Forensic Laboratories may subcontract client samples to other SGSFL locations to meet client requests.
 San Francisco Office: 3777 Depot Road, Suite 409, Hayward, CA 94545-2761 • Phone: 510/887-8828 • 800/827-3274
 Los Angeles Office: 20535 South Belshaw Ave., Carson, CA 90746 • Phone: 310/763-2374 • 888/813-9417
 Las Vegas Office: 6765 S. Eastern Avenue, Suite 3, Las Vegas, NV 89119 • Phone: 702/784-0040
 Chicago Office: 3020 Woodcreek Drive, Suite C, Downers Grove, IL 60515 • Phone: 341/465-2464

Project: PLY106	Site: Ceramics Lab (74)	Sample Date: 07/12/2023
Bulk Sample Matrix		
Sample Number	Location	Material Description
CERAM-1	Rm 101 NW Center	Concrete Slab (Grey)
CERAM-2	Rm 111 SE Center	Concrete Slab (Grey)
CERAM-3	SW Patio Kiln	TSI, Kiln Batt Insulation (White)
CERAM-4	Rm RR-1A S Window	Window Putty (White)
CERAM-5	Rm 108 N Kiln Heat Shield	TSI, Hood Batt Insulation (White)
CERAM-6	Rm 108 N Kiln Heat Shield	Cementitious Heat Shield (Grey)
CERAM-7	Rm 108 NE Wall	Drywall (White)
CERAM-8	Rm 108 NE Door	Drywall (White)
CERAM-9	Rm 108 S Center Ceiling	Cementitious Panel (Grey)
CERAM-10	Rm 108 S Wall	Hardie Backer Board (Tan)
CERAM-11	Rm 107 S Wall Kitchen Counter Backsplash	Fibrous Backsplash (Brown) + Mastic (Gold)
CERAM-12	Rm RR-1B SE Corner	Drywall + Joint Compound (White)
CERAM-13	Rm RR-1B SE Corner	4" Base (Black) + Mastic (Gold)
CERAM-14	RR Hallway E Wall	Drywall + Joint Compound (White)
CERAM-15	Rm 102 SW	Concrete Slab (Grey)
CERAM-16	Rm 102 Ceiling SW	12"x12" ACT (White/tan, nail-on)
CERAM-17	Rm E-1 E Wall	Drywall + Joint Compound (White)
CERAM-18	Rm 111 SE Corner	Drywall + Joint Compound (White)
CERAM-19	SW Patio Kiln	Fire Brick (Tan)
CERAM-20	Ext Lower Flat Roof S Center Vent	Roof Mastic (Black)
CERAM-21	Ext Lower Flat Roof SE Skylight	Roof Mastic (Black)
CERAM-22	Ext Lower Flat Roof W Center S Kiln Vent	Roof Mastic (Black)
CERAM-23	Ext Lower Flat Roof E Center N Kiln Vent	Roof Mastic (Black)
CERAM-24	Ext NW Lower Flat Roof to Wall Flashing	Roof Mastic (Black) + Sealant (Clear)
CERAM-25	Ext Lower Flat Roof N Exhaust Fan	Roof Mastic (Black)
CERAM-26	Ext Lower Flat Roof SW Skylight	Roof Mastic (Black)
CERAM-27	Ext NW Comp Roof-Roof to Wall Flashing	Roof Mastic (Black)
CERAM-28	Ext Upper Roof W Vent	Roof Mastic (Black)
CERAM-29	Ext Upper Roof NW HVAC Hood	Roof Mastic (Black)
CERAM-30	Ext Lower Flat Roof N Center	Rolled Roofing (Red/Black)
CERAM-31	Ext Lower Flat Roof SW	Rolled Roofing (Red/Black)

RECEIVED

JUL 17 2023


 Handwritten signature and initials, possibly 'J.P.' and '10.03.2023'.

Project: PLY106	Site: Ceramics Lab (74)	Sample Date: 07/12/2023
Bulk Sample Matrix		
Sample Number	Location	Material Description
CERAM-32	Ext Upper Roof W Center	Rolled Roofing (Red/Black)
CERAM-33	Ext Comp Roof SW	Comp Shingle (Red/Black)
CERAM-34	Ext Comp Roof SE	Comp Shingle (Red/Black)
Notes:		
Please provide a result for each unique material comprising multilayered samples.		
ACT	Acoustical Ceiling Tile	
CTR	Center	
JC	Joint Compound	
N, S, E, W, NW, etc.	Azimuth directions	
TSI	Thermal System Insulation	
VFT	Vinyl floor tile	
VSF	Vinyl sheet flooring	