IFB #PW24-1 Exhibit K 1 of 37



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Technical Memorandum

February 1, 2024

Asbestos Data Summary – Behavioral & Social Sciences Building Rooms: M-0A, M-0B, E/T-1A, C-5a, H-6 and Roof Exhaust

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 Behavioral & Social Sciences (BSS) Building on January 24, 2024.

This memorandum summarizes the sampling analytical findings and provides conclusions based on these data. The location of samples collected at the BSS Building as well as the distribution of any ACM identified at the site are depicted on the attached figures (Attachment A).

Site Description

The BSS Building, Humboldt Building Number 089, is located at the following street address:

1605 Union Street, Arcata, CA 95521 •

The BSS Building was constructed in 2006. The building has approximately 80,341 of useable square feet. The interior walls, ceilings, ducting, insulation, and interior mechanical systems within the following rooms were sampled at the BSS Building and are herein defined as the project site: M-0A, M-0B, E/T-1A, C-5a, H-6 and Roof Exhaust.

The project site interior flooring generally consists of exposed concrete. Interior walls generally consist of gypsum board and joint compound. Walls in mechanical spaces are generally untextured and unpainted. The ceilings generally consist of gypsum board and joint compound or exposed pan deck exposed Ibeams. Structural members are coated with spray-applied fire resistant material (i.e., fireproofing). Planview figures depicting the project site are attached (Attachment A). Site photographs are also attached (Attachment B).

Survey Description

A total 32 samples were collected of suspect ACM throughout the project site. Some samples consisted of multiple unique layers of material. The samples collected at the project site are listed in Table 1. The sample locations are depicted on the attached figures (Attachment B). The ACM sampling was conducted in general accordance with the United States Environmental Protection Agency (USEPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations.

Laboratory Data

Bulk samples collected from project site were sent to SGS Forensic Laboratories, an accredited laboratory located in Hayward, California. Suspect ACM samples were analyzed for asbestos content via Polarized Light Microscopy (PLM) using USEPA Method 600/R-93-R. The PLM data are summarized in Table 1. The PLM analytical reports are attached (Attachment C).

1 Harpst Street, Arcata, California 95521-8299

facilitymgmt.humboldt.edu

Findings

The PLM laboratory analytical data for project site is summarized in Table 1 (below). Table 1 includes the location, material type, analytical result, and applicable regulatory designations for each suspect ACM sample collected at project site. Samples that do not contain asbestos above the PLM detection limit are reported by the laboratory as non-detect (ND) and are listed in Table 1 as ND. Samples reported to contain asbestos are identified in Table 1 by the asbestos content (percent asbestos) and emphasized using bold text.

Table 1 – Asbestos Data Summary										
Sample Number	Location	Material	Laboratory Result	Material Category	Cal/OSHA Work Class	Waste Designation				
BSS-1	M-0B - 8" Vertical HWR at N. Boiler	TSI Run (Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
BSS-2	M-0B - 4" Vertical Domestic Cold Water NW Center	TSI Run (Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
BSS-3	M-0B - 4" Industrial Cold Water NW Corner	TSI Run (Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
BSS-4	M-0B - 8" 90° Vertical HWR at N. Boiler N Side	TSI Elbow (Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
BSS-5	M-0B - 12" Horizontal HWR at Valve	TSI Fitting Sleeve (Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
BSS-6	M-0B - 4" Vertical HWS NE Hot Water Heater	TSI Run (Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
BSS-7	M-0B - 4" Vertical HWR NE Hot Water Heater	TSI Run (Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
BSS-8	M-0B - 24" Pressure Tank N Wall SE Corner	TSI (Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
BSS-9	M-0B - S Boiler N Side HWS Plastic Cover	Caulking (White)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
BSS-10	M-0B - S Boiler 8" 90° HWR	TSI Elbow (Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
BSS-11	M-0B - S Wall Center 6" Hole	Fire Caulking	ND	Not ACM or RACM	NA	Not Asbestos Waste				
BSS-12	M-0B - NW Corner 2.5" Horizontal CW	Pipe Thread Compound	ND	Not ACM or RACM	NA	Not Asbestos Waste				
BSS-13	M-0B - N Wall W Side at 8" Pressure Reducer	8" Flange Gasket	ND	Not ACM or RACM	NA	Not Asbestos Waste				

Table 1 – Asbestos Data Summary									
Sample Number	Location	Material	Laboratory Result	Material Category	Cal/OSHA Work Class	Waste Designation			
BSS-14	M-0B - NW Pressure Tank 2" Vertical	TSI Run (Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
BSS-15	M-0B - S Center Ceiling	FG Batt (Orange)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
BSS-16	M-0B - NE 10" Gas Supply Line	10" Flange Gasket (Red)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
BSS-17	M-0B - W Wall NW Corner	Drywall (White) + Joint Compound (White)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
BSS-18	M-0B - E Wall Center	Drywall (White) + Joint Compound (White)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
BSS-19	M-0A - Ceiling Chase Center W Side	2 Layers Drywall (White) + Joint Compound (White)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
BSS-20	M-0A - Ceiling Chase Center W Side	FG Batt (Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
BSS-21	M-0A - Ceiling Chase Center W Side	FG Coated (Yellow) Drywall (White)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
BSS-22	E/T-1A - S Wall Of Vertical Chase SW Corner	4" Base (Grey) + Mastic	ND	Not ACM or RACM	NA	Not Asbestos Waste			
BSS-23	E/T-1A - S Wall Of Vertical Chase SW Corner	Drywall (White) + Joint Compound (White)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
BSS-24	C-5A - N Wall Of Vertical Chase NW Corner	Drywall (White) + Joint Compound (White)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
BSS-25	H-6 - SW Corner I-Beam	SFRM (Off White)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
BSS-26	H-6 - SW Corner I-Beam	SFRM (Tan Patch)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
BSS-27	H-6 - SW Corner Column	SFRM (Off White)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
BSS-28	Roof @ Exhaust Vent Metal Roof	Roof Coating (Green)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
BSS-29	Roof @ N Exhaust Vent Bolt Sealant	Caulking (Grey)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
BSS-30	Roof @ N Exhaust Vent Bolt Sealant Patch	Caulking (White)	ND	Not ACM or RACM	NA	Not Asbestos Waste			

Table 1 – Asbestos Data Summary									
Sample Number	Location	Material	Laboratory Result	Material Category	Cal/OSHA Work Class	Waste Designation			
BSS-31	Roof @ S Exhaust Vent Bolt Sealant	Caulking (Grey)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
BSS-32	H-6A - NW Corner I-Beam	SFRM (Off White)	ND	Not ACM or RACM	NA	Not Asbestos Waste			

Notes:

- ACM = Asbestos Containing Material (greater than 1% asbestos)
- ACT = Acoustical Ceiling Tile
- AWT = Acoustical Wall Tile
- FG = Fiberglass
- 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)
- SFRM = Spray-applied fire resistant material
- Individual materials comprising multi-layered samples are separated by a "+" symbol
- * = Sample was initially reported to contain <1% asbestos. Additional sampling of this material confirmed this material to be ND. Material is homogeneous to other samples reported to be ND.

Conclusions

As listed in Table 1, none (0) of the samples were reported to contain asbestos (i.e., all samples ND). Based on these data, no ACM identified at the project site. The locations of samples collected at project site are shown on the attached figures (Attachment A). Photographs of the typical materials sampled at the project site are attached Attachment B). The analytical reports are attached (Attachment C).

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.

Asbestos materials, if any, that may be disturbed by construction work at project site shall be removed by a licensed abatement contractor prior to other site work. Material containing greater than 1% asbestos is classified by Cal/OSHA as ACM, while material containing detectable quantities of asbestos less than 1% is classified as ACCM. Construction work impacting ACM and ACCM requires compliance with Cal/OSHA asbestos regulations (8CCR1529).

Nonfriable ACM is classified as nonhazardous asbestos waste, so long as the material is not rendered friable. Nonfriable ACM shall be reclassified as Regulated ACM (RACM), if removed using mechanical means. Friable material containing greater than one percent asbestos (e.g., RACM) is classified as a California hazardous waste.

If other constituents of concern are encountered or suspected to be present onsite beyond those identified in the memorandum, then additional sampling must be performed to evaluate the project site for the presence of such hazards. Waste streams generated as a result of construction and/or demolition work at project site must be representatively sampled to determine the concentration of potentially

Technical Memorandum Asbestos Data Summary – BSS Building Boiler Replacement

hazardous constituents in the waste prior to transport offsite. Transportation and disposal requirements shall be determined based on the waste characterization data.

Please contact FM PDC with any questions regarding the information contained in this memorandum.

Thank you,

Facilities Management - Planning, Design & Construction

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Scott Harris, CAC (707) 826-5904 scott.harrisathumboldt.edu

Attachments:

- 1. Attachment A Figures
- 2. Attachment B Photographs
- 3. Attachment C Laboratory Data

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Attachment A – Figures

Figure 1 - Sample Location Map

BSS - M-0A & M-0B

1605 Union St Arcata, CA 95521



Notes:

- All locations and measurements approximate
- Not to scale
- Call out = Sample Location Building Sample #
- Out lined box + **Bold lettering** = Material reported to contain asbestos



Figure 1.2 - Sample Location Map

BSS - E/T-1A, C-5A, H-6, M-6A & Exterior Roof 1605 Union St Arcata, CA 95521



Notes:

- All locations and measurements approximate
- Not to scale
- Call out = Sample Location Building Sample #
- Out lined box + **Bold lettering** = Material reported to contain asbestos



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Attachment B – Photographs

Asbestos Data Summary – BSS Building XPL293 Boiler Replacement



Asbestos Data Summary – BSS Building XPL293 Boiler Replacement



Photograph 4 – BSS Building – Room M-0B – Fiberglass TSI Run (Typical)

Asbestos Data Summary – BSS Building XPL293 Boiler Replacement



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Attachment C – Laboratory Data



Analysis Request Form (COC)

Client Name & Address;		Client No.: 2087	^{PO / Job#:} FM	PDC /	XPL293	Dat	^{e:} 01/25/2	2024	
Cal Poly Humboldt			Turn Around Time	e: Same	e Day / 1Day	/ 2000	/ 3Day / 4	IDay / 5Day	
1 Harpst Street, Arcata, 0	Planning CA 9552	, Design & Construction 1-8299	D PCM: D NIOSH 7400A / D NIOSH 7400B D Rotometer						
			🕅 PLM: 🕅 Stand	lard /	🛱 Point Coun	1400-10	000 / E C	ARB 435	
Contact: Scott Harris	Phon	^{ie:} (707) 826-5904	TEM Air: DA	TEM Air: TAHERA / TYamate2 / TNIOSH 7402					
E-mail: ssh11@humboldt.ed	du, jrb20	@humboldt.edu	TEM Water: F	T Potab 25755 (le / 🗖 Non-F microvac) / 🗖	Potable ∕ Í D6480 {\	I∏ Weight wipe]	%	
Site Name: Behavioral & So	cial Scie	nces (BSS)(089) Boiler	🗇 IAQ Particle Id	lentifica ication (tion (PLM LAB) TEM LAB)	 	🗆 PLM Opa 🗖 Special P	ques/Soot roject	
Site Location: 1605 Union St	🗂 Metals Analysi	is Mati Ana	rix: lytes:	M	ethod:				
Comments: Reference: CF- 660	0061 HM60	05 D30037 XPL293; Please S	Send Invoice to Ab	ove Er	nails	🗖 Silica	a in Air 🗖 v rtz Only	v/Grovimetry	
Date /					FOR AIR SA	MPLES O	NLY	Sample	
Sample ID	Time	Sample Location / De	escription	Туре	Time On/Off	Avg LPM	Total Time	Area / Air Volume	
See Attachment A	01/24/24	See Attachment A		지 직 기	NA	- NA	NA	NA	
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Relinguished By: Scott Harris		Relinquished By:			Relinguished				
Date / Time: 01/25/2024 1	400 8	Date / Time:			Date / Time:	<i>.</i>			
Received By:		Received By:			Received By:				
Date / Time:		Date / Time:			Date / Time:			:	
Condition Acceptable? TYes	<u>⊐</u> N₀	Condition Acceptable?	TYes DNo		Condition Ac	ceptable?	🗖 Yes	D 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, Dawners Grove, IL 60515 • Phone: 341/465-2464

Site: BSS	Project: XPL293 Boiler Replacement Project	Sample Date: 1/24/24
	Bulk Sample Matri	x
Sample Number	Location	Material Description
BSS-1	M-0B - 8" Vertical HWR @ N. Boiler	TSI Run (Yellow)
BSS-2	M-0B - 4" Vertical Domestic Cold Water NW Center	TSI Run (Yellow)
BSS-3	M-0B - 4" Industrial Cold Water NW Corner	TSI Run (Yellow)
BSS-4	M-0B - 8" 90° Vertical HWR @ N. Boiler N Side	TSI Elbow (Yellow)
BSS-5	M-0B - 12" Horizontal HWR @ Valve	TSI Fitting Sleeve (Yellow)
BSS-6	M-0B - 4" Vertical HWS NE Hot Water Heater	TSI Run (Yellow)
BSS-7	M-0B - 4" Vertical HWR NE Hot Water Heater	TSI Run (Yellow)
BSS-8	M-0B - 24" Pressure Tank N Wall SE Corner	TSI (Yellow)
BSS-9	M-0B - S Boiler N Side HWS Plastic Cover	Caulking (White)
BSS-10	M-0B - S Boiler 8" 90° HWR	TSI Elbow (Yellow)
BSS-11	M-0B - S Wall Center 6" Hole	Fire Caulking
BSS-12	M-0B - NW Corner 2.5" Horizontal CW	Pipe Thread Compound
BSS-13	M-0B - N Wall W Side @ 8" Pressure Reducer	8" Flange Gasket
BSS-14	M-0B - NW Pressure Tank 2" Vertical	TSI Run (Yellow)
BSS-15	M-0B - S Center Ceiling	FG Batt (Orange)
BSS-16	M-0B - NE 10" Gas Supply Line	10" Flange Gasket (Red)
BSS-17	M-0B - W Wall NW Corner	Drywall (White) + Joint Compound (White)
BSS-18	M-0B - E Wall Center	Drywall (White) + Joint Compound (White)
BSS-19	M-0A - Ceiling Chase Center W Side	2 Layers Drywall (White) + Joint Compound (White)
BSS-20	M-0A - Ceiling Chase Center W Side	FG Batt (Yellow)
BSS-21	M-0A - Ceiling Chase Center W Side	FG Coated (Yellow) Drywall (White)
BSS-22	E/T-1A - S Wall Of Vertical Chase SW Corner	4" Base (Grey) + Mastic
BSS-23	E/T-1A - S Wall Of Vertical Chase SW Corner	Drywall (White) + Joint Compound (White)
BSS-24	C-5A - N Wall Of Vertical Chase NW Corner	Drywall (White) + Joint Compound (White)
BSS-25	H-6 - SW Corner I-Beam	SFRM (Off White)
BSS-26	H-6 - SW Corner I-Beam	SFRM (Tan Patch)
BSS-27	H-6 - SW Corner Column	SFRM (Off White)
BSS-28	Roof @ Exhaust Vent Metal Roof	Roof Coating (Green)
BSS-29	Roof @ N Exhaust Vent Bolt Sealant	Caulking (Grey)
BSS-30	Roof @ N Exhaust Vent Bolt Sealant Patch	Caulking (White)
BSS-31	Roof @ S Exhaust Vent Bolt Sealant	Caulking (Grey)
BSS-32	H-6A - NW Corner I-Beam	SFRM (Off White)

Notes:

Please provide a result for each unique material comprising multilayered samples. ACT Acoustical Ceiling Tile

ACTAcoustical Ceiling TileCTRCenterJCJoint CompoundN, S, E, W, NW, etc.Azimuth directionsTSIThermal System InsulationVFTVinyl floor tileVSFVinyl sheet flooringSFRMSpray-applied Fire Resistant Material





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

Humboldt State University Scott Harris 1 Harpst Street Plan Operations Arcata, CA 95521					Client ID: Report Number Date Received: Date Analyzed: Date Printed: First Reported:	2087 : B356214 01/26/24 01/30/24 01/30/24 01/30/24	4 4 4 4
Job ID/Site: FM PDC/ XPL293 - Behaviora Arcata, 95521	1 & Social Scie	nces (BSS)(089)	Boiler - 1605 Ui	nion St.,	SGSFL Job ID: Total Samples S	2087 ubmitted:	32
Date(s) Collected: 01/25/2024					Total Samples A	nalyzed:	32
Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in A Layer	Asbestos Type	Percent in Layer
BSS-1	12725838						
Layer: Yellow Fibrous Material			ND ND				
Layer: White Fibrous Material			ND ND				
Layer: Silver Foil			ND				
Total Composite Values of Fibrous CompCellulose (2 %)Fibrous Glass (95 %)	ponents: A	Asbestos (ND)					
BSS-2	12725839						
Layer: Yellow Fibrous Material			ND				
Layer: White Fibrous Material Layer: White Woven Material			ND ND				
Layer: Silver Foil			ND				
Total Composite Values of Fibrous Com Cellulose (2 %) Fibrous Glass (95 %	ponents: A	Asbestos (ND)					
BSS-3	12725840						
Layer: Yellow Fibrous Material			ND				
Total Composite Values of Fibrous CompCellulose (Trace)Fibrous Glass (99)	ponents: A %)	Asbestos (ND)					
BSS-4	12725841						
Layer: Yellow Fibrous Material			ND				
Cellulose (Trace) Fibrous Glass (99	ponents: A %)	Asbestos (ND)					
BSS-5	12725842						
Layer: Yellow Fibrous Material Layer: Silver Foil			ND ND				
Layer: White Woven Material			ND				
Layer: White Fibrous Material			ND				
Layer: White Coating			ND				
Total Composite Values of Fibrous CompCellulose (2 %)Fibrous Glass (90 %)	ponents: A	Asbestos (ND)					

Client Name: Humboldt State University					Report Numb Date Printed:	er: B35621 01/30/2	.4 4
Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
BSS-6 Layer: Yellow Fibrous Material Layer: Silver Foil Layer: White Woven Material Layer: White Fibrous Material Layer: White Coating	12725843		ND ND ND ND ND				
Total Composite Values of Fibrous ComCellulose (2 %)Fibrous Glass (90 %)	nponents: A %)	Asbestos (ND)					
BSS-7 Layer: Yellow Fibrous Material Layer: Silver Foil Layer: White Woven Material Layer: White Fibrous Material Layer: White Coating	12725844		ND ND ND ND ND				
Total Composite Values of Fibrous ConCellulose (2 %)Fibrous Glass (90 %)	nponents: A %)	Asbestos (ND)					
BSS-8 Layer: Yellow Fibrous Material Layer: Silver Foil Layer: White Woven Material Layer: White Fibrous Material Layer: White Coating Total Composite Values of Fibrous Con	12725845	schestos (ND)	ND ND ND ND ND				
Cellulose (2 %) Fibrous Glass (90	%)						
Layer: White Non-Fibrous Material	12/23840		ND				
Total Composite Values of Fibrous Con Cellulose (Trace)	ponents: A	sbestos (ND)					
BSS-10 Layer: Yellow Fibrous Material	12725847		ND				
Total Composite Values of Fibrous ComCellulose (Trace)Fibrous Glass (99)	nponents: A 9%)	Asbestos (ND)					
BSS-11 Layer: Red Semi-Fibrous Material	12725848		ND				
Total Composite Values of Fibrous ConCellulose (Trace)Fibrous Glass (5	nponents: A %)	Asbestos (ND)					
BSS-12 Layer: Beige Non-Fibrous Material	12725849		ND				
Total Composite Values of Fibrous Con Cellulose (Trace)	ponents: A	Asbestos (ND)					

Client Name: Humboldt State University					Report Number Date Printed:	er: B35621 01/30/2	4 4
Sample ID	Lab Number	Asbestos r Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
BSS-13 Layer: Black Non-Fibrous Material Layer: White Woven Material	12725850		ND ND				
Cellulose (Trace) Synthetic (10 %)	iponents:	Asbestos (ND)					
BSS-14 Layer: Yellow Fibrous Material Layer: White Fibrous Material Layer: White Woven Material Layer: Silver Foil	12725851		ND ND ND ND				
Total Composite Values of Fibrous ConCellulose (2 %)Fibrous Glass (95 %)	nponents:	Asbestos (ND)					
BSS-15 Layer: Pink Fibrous Material Layer: White Fibrous Material Layer: White Woven Material Layer: Silver Foil	12725852		ND ND ND ND				
Total Composite Values of Fibrous Con Cellulose (2 %) Fibrous Glass (95 9	nponents: %)	Asbestos (ND)					
BSS-16 Layer: Red Non-Fibrous Material	12725853		ND				
Total Composite Values of Fibrous Con Cellulose (Trace)	ponents:	Asbestos (ND)					
BSS-17 Layer: White Drywall Layer: White Joint Compound	12725854		ND ND				
Total Composite Values of Fibrous Con Cellulose (20 %) Fibrous Glass (10	nponents: %)	Asbestos (ND)					
BSS-18 Layer: White Drywall Layer: White Joint Compound	12725855		ND ND				
Total Composite Values of Fibrous Con Cellulose (20 %) Fibrous Glass (10	nponents: %)	Asbestos (ND)					
BSS-19 Layer: White Drywall Layer: White Joint Compound Layer: Drywall Tape Layer: White Joint Compound	12725856		ND ND ND ND				
Total Composite Values of Fibrous Con Cellulose (20 %) Fibrous Glass (10	nponents: %)	Asbestos (ND)					

Client Name: Humboldt State University					Report Numbe Date Printed:	er: B35621 01/30/2	14 24
Sample ID	Lab Numbe	Asbestos r Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
BSS-20 Layer: Yellow Fibrous Material Layer: Tan Fibrous Material	12725857		ND ND				
Total Composite Values of Fibrous ComCellulose (5 %)Fibrous Glass (95 %)	ponents: %)	Asbestos (ND)					
BSS-21 Layer: White Drywall Layer: Yellow Fibrous Material	12725858		ND ND				
Total Composite Values of Fibrous Con Cellulose (Trace) Fibrous Glass (5	ponents: %)	Asbestos (ND)					
BSS-22 Layer: Grey Non-Fibrous Material Layer: Beige Mastic	12725859		ND ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (ND)					
BSS-23 Layer: White Drywall Layer: White Joint Compound Layer: Drywall Tape Layer: White Joint Compound Layer: Paint	12725860		ND ND ND ND ND				
Total Composite Values of Fibrous Com Cellulose (20 %) Fibrous Glass (10	nponents: %)	Asbestos (ND)					
BSS-24 Layer: White Drywall Layer: White Joint Compound Layer: Drywall Tape Layer: White Joint Compound Layer: Paint	12725861		ND ND ND ND ND				
Total Composite Values of Fibrous Com Cellulose (20 %) Fibrous Glass (10	nponents: %)	Asbestos (ND)					
BSS-25 Layer: Off-White Fibrous Material	12725862		ND				
Total Composite Values of Fibrous ComCellulose (45 %)Synthetic (35 %)	ponents:	Asbestos (ND)					
BSS-26 Layer: Tan Fibrous Material	12725863		ND				
Total Composite Values of Fibrous ComCellulose (45 %)Synthetic (35 %)	ponents:	Asbestos (ND)					
BSS-27 Layer: Off-White Fibrous Material	12725864		ND				
Total Composite Values of Fibrous Com Cellulose (45 %) Synthetic (35 %)	ponents:	Asbestos (ND)					

	Report Number: B356214						
Client Name: Humboldt State University					Date Printed:	01/30/2	24
Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
BSS-28 Layer: Green Non-Fibrous Material	12725865		ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (ND)					
BSS-29 Layer: Grey Non-Fibrous Material Layer: Paint	12725866		ND ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (ND)					
BSS-30 Layer: White Non-Fibrous Material Layer: Paint	12725867		ND ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (ND)					
BSS-31 Layer: Grey Non-Fibrous Material Layer: Paint	12725868		ND ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (ND)					
BSS-32 Layer: Off-White Fibrous Material	12725869		ND				
Total Composite Values of Fibrous ComCellulose (45 %)Synthetic (35 %)	ponents:	Asbestos (ND)					

Maria E. Casper

Maria Cosper, Laboratory Supervisor, Hayward Laboratory

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

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EMAIL

Technical Memorandum

February 1, 2024

Asbestos Data Summary – Kinesiology & Athletics Building (024F) Third-Floor Mechanical Room (M-3B)

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 select areas of the Kinesiology & Athletics Building (KA) on January 24, 2024.

This memorandum summarizes the sampling analytical findings and provides conclusions based on these data. The location of samples collected at the KA as well as the distribution of any ACM identified at the site are depicted on the attached figures (Attachment A).

Site Description

The KA Building, Humboldt Building Number 024F, is located at the following street address:

55 Gymnasium Lane, Arcata, CA 95521

The 90,000 square-foot KA Building provides recreational, academic, and fitness spaces. The interior walls, ceilings, ducting, insulation, and mechanical systems of the third-floor mechanical room (M-3B) are herein defined as the project site.

The project site interior floor is exposed concrete. The walls consist of drywall and joint compound wall systems over metal framing. The ceiling is open to the exposed metal pan deck. I-Beams are coated with spray-applied fire-resistant material (i.e., fireproofing). Planview figures depicting the project site are attached (Attachment A). Site photographs are also attached (Attachment B).

Survey Description

A total 26 samples were collected of suspect ACM throughout the project site. Some samples consisted of multiple unique layers of material. The samples collected at the project site are listed in Table 1. The sample locations are depicted on the attached figures (Attachment B). The ACM sampling was conducted in general accordance with the United States Environmental Protection Agency (USEPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations.

Laboratory Data

Bulk samples collected from project site were sent to SGS Forensic Laboratories, an accredited laboratory located in Hayward, California. Suspect ACM samples were analyzed for asbestos content via Polarized Light Microscopy (PLM) using USEPA Method 600/R-93-R. The PLM data are summarized in Table 1. The PLM analytical reports are attached (Attachment C).

> 1 Harpst Street, Arcata, California 95521-8299 facilitymgmt.humboldt.edu

Asbestos Findings

The PLM laboratory analytical data for project site is summarized in Table 1 (below). Table 1 includes the location, material type, analytical result, and applicable regulatory designations for each suspect ACM sample collected at project site. Samples that do not contain asbestos above the PLM detection limit are reported by the laboratory as non-detect (ND) and are listed in Table 1 as ND. Samples reported to contain asbestos are identified in Table 1 by the asbestos content (percent asbestos) and emphasized using bold text.

Table 1 – Asbestos Data Summary										
Sample Number	Location	Material	Laboratory Result	Material Category	Cal/OSHA Work Class	Waste Designation				
KA-1	M-3B - W Wall NW Corner 3" Vertical Direct Cold Water	TSI Run (Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
KA-2	M-3B - NW Corner 2" Horizontal Make Up Water	TSI Run (Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
KA-3	M-3B - 16" T- Valve N of Boiler	TSI Fitting (Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
KA-4	M-3B - 10" 45° E Boiler N Side	TSI Elbow (Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
KA-5	M-3B - 8" Vertical HWR W Boiler N Side	TSI Run (Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
KA-6	M-3B - 8" 45° E Boiler N Side	TSI Fitting (Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
KA-7	M-3B - 8" Horizontal HWS Center	TSI Run (Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
KA-8	M-3B - 24" Pressure Tank	TSI Batt (Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
KA-9	M-3B - W Wall Canter	4" Base (Dark Grey) + Mastic (Off White)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
KA-10	M-3B - SE Corner	4" Base (Dark Grey) + Mastic (Off White)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
KA-11	M-3B - SE Corner	Drywall (White) + Joint Compound (White)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
KA-12	M-3B - SW Corner	Drywall (White) + Joint Compound (White)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
KA-13	M-3B - NE Corner	Drywall (White) + Joint Compound (White)	ND	Not ACM or RACM	NA	Not Asbestos Waste				
KA-14	M-3B - SW Corner I-Beam	SFRM (Off White)	ND	Not ACM or RACM	NA	Not Asbestos Waste				

Technical Memorandum Asbestos Data Summary – Kinesiology & Athletics Building (024F)

Table 1 – Asbestos Data Summary									
Sample Number	Location	Material	Laboratory Result	Material Category	Cal/OSHA Work Class	Waste Designation			
KA-15	M-3B - NE Corner I-Beam	SFRM (Off White)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
KA-16	M-3B - NW Corner I-Beam	SFRM (Off White)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
KA-17	M-3B - NW Corner	Fire Caulking (Red)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
KA-18	M-3B - N of Boiler 10" Pressure Reducer	10" Flange Gasket (Brown)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
KA-19	M-3B - N of Boiler 10" Pressure Reducer	10" Flange Gasket (Red)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
KA-20	M-3B - E Boiler 6" Flex Ducting	Flex Ducting (Dark Brown)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
KA-21	M-3B - E Boiler	Insulation (FG Batt, Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
KA-22	M-3B - W Boiler	Insulation (FG Batt, Yellow)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
KA-23	M-3B - W Boiler	Pipe Thread Compound (Off White)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
KA-24	M-3B - W Wall 1" Pressure Reducing Valve	4" Flange Gasket (Black)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
KA-25	M-3B - N of W Boiler Gas Intake	Pipe Thread Compound (Off White)	ND	Not ACM or RACM	NA	Not Asbestos Waste			
KA-26	M-3B - N of E Boiler Gas Intake	Pipe Thread Compound (Off White)	ND	Not ACM or RACM	NA	Not Asbestos Waste			

Notes:

• ACM = Asbestos Containing Material (greater than 1% asbestos)

• ACT = Acoustical Ceiling Tile

AWT = Acoustical Wall Tile

NA = Not applicable

• ND = Nondetect (i.e., no asbestos fibers reported above the laboratory detection limit)

• VFT = Vinyl Floor Tile

• VSF = Vinyl Sheet Flooring

• RACM = Regulated Asbestos Containing Material (friable and greater than 1% asbestos)

• SFRM = Spray-applied fire-resistant material

• Individual materials comprising multi-layered samples are separated by a "+" symbol

• * = Sample was initially reported to contain <1% asbestos. Additional sampling of this material confirmed this material to be ND. Material is homogeneous to other samples reported to be ND.

Technical Memorandum Asbestos Data Summary – Kinesiology & Athletics Building (024F)

Conclusions

As listed in Table 1, none (0) of the samples were reported to contain asbestos (i.e., all samples ND). Based on these data, ACM was not identified at the project site. The locations of samples collected are shown on the attached figures (Attachment A). Photographs of the typical materials sampled at the project site are attached Attachment B). The analytical reports are attached (Attachment C).

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.

Asbestos materials, if any, that may be disturbed by construction work at project site shall be removed by a licensed abatement contractor prior to other site work. Material containing greater than 1% asbestos is classified by Cal/OSHA as ACM, while material containing detectable quantities of asbestos less than 1% is classified as ACCM. Construction work impacting ACM and ACCM requires compliance with Cal/OSHA asbestos regulations (8CCR1529).

Nonfriable ACM is classified as nonhazardous asbestos waste, so long as the material is not rendered friable. Nonfriable ACM shall be reclassified as Regulated ACM (RACM), if removed using mechanical means. Friable material containing greater than one percent asbestos (e.g., RACM) is classified as a California hazardous waste.

If other constituents of concern are encountered or suspected to be present onsite beyond those identified in the memorandum, then additional sampling must be performed to evaluate the project site for the presence of such hazards. Waste streams generated as a result of construction and/or demolition work at project site must be representatively sampled to determine the concentration of potentially hazardous constituents in the waste prior to transport offsite. Transportation and disposal requirements shall be determined based on the waste characterization data.

Please contact FM PDC with any questions regarding the information contained in this memorandum.

Thank you,

Facilities Management - Planning, Design & Construction

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

Attachments:

- 1. Attachment A Figures
- 2. Attachment B Photographs
- 3. Attachment C Laboratory Data

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Attachment A – Figures

Figure 1 - Sample Location Map

KA - M-3B

55 Gymnasium Ln Arcata, CA 95521



Notes:

- All locations and measurements approximate
- Not to scale
- Call out = Sample Location (Building Sample #)
- Out lined box + **Bold lettering** = Material reported to contain asbestos



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Attachment B – Photographs

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Asbestos Data Summary – Kinesiology & Athletics Building (024F)



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IFB #PW24-1 Exhibit K 30 of 37

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Attachment C – Laboratory Data



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

Humboldt State University Scott Harris 1 Harpst Street Plan Operations Arcata, CA 95521			Client ID: Report Number: Date Received: Date Analyzed: Date Printed: First Reported:	2087 B356209 01/26/24 01/30/24 01/30/24 01/30/24
Job ID/Site: FM PDC/ XPL293 - Kinesiolog Arcata 95521 Date(s) Collected: 01/25/2024	y & Athletics (KA)(024F)	Boiler RM - 55 Gymnasium Ln,	SGSFL Job ID: Total Samples Subi Total Samples Ana	2087 mitted: 26 lyzed: 26
Sample ID	Asbesto Lab Number Type	os Percent in Asbestos Layer Type	Percent in Asb Layer Ty	estos Percent in pe Layer
ka-1 Layer: White Fibrous Material Layer: Silver Foil Layer: White Woven Material Layer: White Fibrous Material Layer: White Coating	12725775	ND ND ND ND ND		
Total Composite Values of Fibrous Comp Cellulose (2 %) Fibrous Glass (90 %	ponents: Asbestos (1	ND)		
ka-2 Layer: White Fibrous Material Layer: Silver Foil Layer: White Woven Material Layer: White Fibrous Material Layer: White Coating	12725776	ND ND ND ND ND		
Total Composite Values of Fibrous CompCellulose (2 %)Fibrous Glass (90 %)	ponents: Asbestos (I	ND)		
ka-3 Layer: White Fibrous Material Layer: Silver Foil Layer: White Woven Material Layer: White Fibrous Material Layer: White Coating	12725777	ND ND ND ND ND		
Total Composite Values of Fibrous CompCellulose (2 %)Fibrous Glass (90 %)	ponents: Asbestos (1 b)	ND)		
ka-4 Layer: Yellow Fibrous Material	12725778	ND		
Total Composite Values of Fibrous Comp Cellulose (Trace) Fibrous Glass (99	oonents: Asbestos (1 %)	ND)		

Client Name: Humboldt State University					Report Numb Date Printed:	er: B35620 01/30/2)9 24
Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
ka-5 Layer: White Fibrous Material Layer: Silver Foil Layer: White Woven Material Layer: White Fibrous Material Layer: White Coating	12725779		ND ND ND ND ND				
Total Composite Values of Fibrous Com Cellulose (2 %) Fibrous Glass (90 %	nponents: A	Asbestos (ND)					
ka-6 Layer: White Fibrous Material Layer: Silver Foil Layer: White Woven Material Layer: Tan Fibrous Material	12725780		ND ND ND ND				
Total Composite Values of Fibrous Com Cellulose (2 %) Fibrous Glass (95 %	nponents: A	Asbestos (ND)					
 ka-7 Layer: White Fibrous Material Layer: Red Non-Fibrous Material Layer: Silver Foil Layer: White Woven Material Layer: White Fibrous Material Total Composite Values of Fibrous Com- 	12725781	Asbestos (ND)	ND ND ND ND ND				
Cellulose (2 %) Fibrous Glass (90 %	(¹)	· · · ·					
ka-8 Layer: White Fibrous Material Layer: Silver Foil Layer: White Woven Material Layer: White Fibrous Material Layer: White Coating	12725782		ND ND ND ND ND				
Total Composite Values of Fibrous Com Cellulose (2 %) Fibrous Glass (90 %	nponents: A %)	Asbestos (ND)					
ka-9 Layer: Dark Grey Non-Fibrous Material Layer: Off-White Mastic	12725783		ND ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents: A	Asbestos (ND)					
ka-10 Layer: Dark Grey Non-Fibrous Material Layer: Off-White Mastic	12725784		ND ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents: A	Asbestos (ND)					

Client Name: Humboldt State University					Report Numb Date Printed:	er: B35620 01/30/2)9 24
Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
ka-11 Layer: White Drywall Layer: White Joint Compound Layer: Drywall Tape Layer: White Joint Compound Layer: Paint	12725785		ND ND ND ND ND				
Total Composite Values of Fibrous CompCellulose (20 %)Fibrous Glass (10 %)	oonents:	Asbestos (ND)					
ka-12 Layer: White Drywall Layer: White Joint Compound Layer: Paint	12725786		ND ND ND				
Total Composite Values of Fibrous Comp Cellulose (20 %) Fibrous Glass (10 %	oonents: %)	Asbestos (ND)					
ka-13 Layer: White Drywall Layer: White Joint Compound Layer: Paint	12725787		ND ND ND				
Total Composite Values of Fibrous CompCellulose (20 %)Fibrous Glass (10 %)	oonents:	Asbestos (ND)					
ka-14 Layer: Off-White Fibrous Material	12725788		ND				
Total Composite Values of Fibrous CompCellulose (45 %)Synthetic (35 %)	oonents:	Asbestos (ND)					
ka-15 Layer: Off-White Fibrous Material	12725789		ND				
Total Composite Values of Fibrous Comp Cellulose (45 %) Synthetic (35 %)	oonents:	Asbestos (ND)					
ka-16 Layer: Off-White Fibrous Material	12725790		ND				
Total Composite Values of Fibrous CompCellulose (45 %)Synthetic (35 %)	oonents:	Asbestos (ND)					
ka-17 Layer: Red Non-Fibrous Material	12725791		ND				
Total Composite Values of Fibrous Comp Cellulose (Trace) Fibrous Glass (5 %	oonents:	Asbestos (ND)					
ka-18 Layer: Brown Non-Fibrous Material	12725792		ND				
Total Composite Values of Fibrous Comp Cellulose (Trace)	oonents:	Asbestos (ND)					
ka-19 Layer: Red Non-Fibrous Material	12725793		ND				
Total Composite Values of Fibrous Comp Cellulose (Trace)	oonents:	Asbestos (ND)					

Client Name: Humboldt State University					Report Numb Date Printed	er: B35620 : 01/30/2	09 24
Sample ID	Lab Numbe	Asbestos r Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
ka-20 Layer: White Woven Material Layer: Black Coating Layer: Brown Woven Material Total Composite Values of Fibrous Com	12725794 ponents:	Asbestos (ND)	ND ND ND				
Cellulose (Trace) Fibrous Glass (90	%)	× ,					
ka-21 Layer: Yellow Fibrous Material	12725795		ND				
Total Composite Values of Fibrous Com Cellulose (Trace) Fibrous Glass (99	ponents: %)	Asbestos (ND)					
ka-22 Layer: White Fibrous Material Layer: Silver Foil Layer: White Woven Material Layer: White Fibrous Material Layer: White Coating	12725796		ND ND ND ND ND				
Total Composite Values of Fibrous ComCellulose (2 %)Fibrous Glass (90 %)	ponents: %)	Asbestos (ND)					
ka-23 Layer: Off-White Non-Fibrous Material Total Composite Values of Fibrous Com Cellulose (Trace)	12725797 ponents:	Asbestos (ND)	ND				
ka-24 Layer: Black Non-Fibrous Material	12725798		ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (ND)					
ka-25 Layer: Off-White Non-Fibrous Material	12725799		ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (ND)					
ka-26 Layer: Off-White Non-Fibrous Material	12725800		ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (ND)					

Maria E. Casper

Maria Cosper, Laboratory Supervisor, Hayward Laboratory

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

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Analysis Request Form (COC)

Client Name & Address:		Client No.: 2087	PO/job#: FM	PDC /	XPL293	Date	^{::} 01/25/2	2024	
Cal Poly Humboldt			Turn Around Time: Same Day / 1 Day / 2 Xy / 3 Day / 4 Day / 5 Day						
Facilities Management - Planning, Design & Construction			PCM: I NIOSH 7400A / I NIOSH 7400B Rotometer						
			図 PLM: 図 Standard / □ Point Count 400 - 1000 / □ CARB 435						
Contact: Scott Harris	Phon	^{e:} (707) 826-5904	TEM Air: TA	TEM Air: TAHERA / TAmate2 / TNOSH 7402					
E-moil: ssh11@humboldt.ec	du, jrb20(@humboldt.edu	TEM Water: F	1 Potab 05755 (le / 🗖 Non-F microvac) / 🗖	'otable / í D6480 (v	in Weight vipe)	%	
Site Name: Kinesiology & At	IAQ Particle Identification (PLM LAB) I PLM Opaques/Soot Particle Identification (TEM LAB) Special Project								
Site Location: 55 Gymnasium	n Ln, Arca	ata, 95521	Metals Analysis Matrix: Method: Analytes:						
Comments: Reference: CF- 660	061 HM60	95 D30037 XPL293; Please S	Send Invoice to Ab	ove Er	nails	🗖 Silica	in Air 🗖 v tz Only	v/Gravimetry	
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Date / Time: 01/25/2024		Date / Time:	•		Date / Lime:				
Received By:		Received By:			Received By:				
Date / Time: Condition Acceptable? IT Yes	I No	Date / Time: Condition Acceptable?	🛛 Yes 🗖 No		Date / Time: Condition Ac	ceptable	🗖 Yes	Г 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

Site: KA	Project: XPL293 Boiler Replacement Project	Sample Date: 1/24/24
	Bulk Sample Matrix	
Sample Number	Location	Material Description
KA-1	M-3B - W Wall NW Corner 3" Verticle Direct Cold Water	TSI Run (Yellow)
KA-2	M-3B - NW Corner 2" Horizontal Make Up Water	TSI Run (Yellow)
KA-3	M-3B - 16" T-Valve N Of Boiler	TSI Fitting (Yellow)
KA-4	M-3B - 10" 45° E Boiler N Side	TSI Elbow (Yellow)
KA-5	M-3B - 8" Verticle HWR W Boiler N Side	TSI Run (Yellow)
KA-6	M-3B - 8" 45° E Boiler N Side	TSI Fitting(Yellow)
KA-7	M-3B - 8" Horizontal HWS Center	TSI Run (Yellow)
KA-8	M-3B - 24" Pressure Tank	TSI (Yellow)
KA-9	M-3B - W Wall Canter	4" Base (Dark Grey) + Mastic (Off White)
KA-10	M-3B - SE Corner	4" Base (Dark Grey) + Mastic (Off White)
KA-11	M-3B - SE Corner	Drywall (White) + Joint Compound (White)
KA-12	M-3B - SW Corner	Drywall (White) + Joint Compound (White)
KA-13	M-3B - NE Corner	Drywall (White) + Joint Compound (White)
KA-14	M-3B - SW Corner I-Beam	SFRM (Off White)
KA-15	M-3B - NE Corner I-Beam	SFRM (Off White)
KA-16	M-3B - NW Corner I-Beam	SFRM (Off White)
KA-17	M-3B - NW Corner	Fire Caulking (Red)
KA-18	M-3B - N Of Boiler 10" Presure Reducer	10" Flange Gasket (Brown)
KA-19	M-3B - N Of Boiler 10" Presure Reducer	10" Flange Gasket (Red)
KA-20	M-3B - E Boiler 6" Flex Ducting	Flex Ducting (Dark Brown)
KA-21	M-3B - E Boiler	Insulation (FG Batt, Yellow)
KA-22	M-3B - W Boiler	Insulation (FG Batt, Yellow)
KA-23	M-3B - W Boiler	Pipe Thread Compund (Off White)
KA-24	M-3B - W Wall 1" Pressure Reducing Valve	4" Flange Gasket (Black)
KA-25	M-3B - N Of W Boiler Gas Intake	Pipe Thread Compound(Off White)
KA-26	M-3B - N Of E Boiler Gas Intake	Pipe Thread Compound (Off White)

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

JAN 2 6 2024 BY: JC 950