

**DPW PROJECT 18914
LEN B. JORDAN
IDAHO DEPARTMENT OF ADMINISTRATION
BOISE, IDAHO**

**ASBESTOS-CONTAINING BUILDING MATERIAL
SURVEY AND ASSESSMENT REPORT**



NOVEMBER 2018

AECOM



November 30, 2018

Mr. Josh Lewis
STATE OF IDAHO
Division of Public Works
502 N. 4th Street
P.O. Box 83720
Boise, Idaho 83720-0072

SUBJECT: DPW PROJECT #18914
LEN B. JORDAN
IDAHO DEPARTMENT OF ADMINISTRATION
BOISE, IDAHO

Dear Josh:

Enclosed are three hard copies and one PDF copy of the Asbestos Survey Report for Idaho Department of Administration – Len B. Jordan (LBJ), which is located on the Capital Mall at 650 West State Street in Boise, Idaho. The LBJ Building is in good-to-fair condition and was occupied at the time of the survey. The following regulated asbestos-containing materials were identified during the survey: non-friable black tar-like caulking on the floor and found around the base of penthouse walls; beige 12-inch vinyl floor tile and black floor tile mastic found in various locations; and friable TSI mudded fitting insulation found on the steam, chilled and domestic water lines, the roof drain lines, and the emergency generator exhaust stack. The asbestos-containing materials were found to be in good-to-fair condition and can be managed in-place.

If you should have any questions, please call me at (208) 890-5062.

Sincerely,

A handwritten signature in blue ink, appearing to read "Tim A. Bird". The signature is fluid and cursive.

Tim A. Bird
Asbestos Project Manager

Enclosure as Stated
cc: File 3326-18914.01

**ASBESTOS-CONTAINING BUILDING MATERIAL
SURVEY AND ASSESSMENT REPORT**

**DPW PROJECT #18914
LEN B. JORDAN
IDAHO DEPARTMENT OF ADMINISTRATION
BOISE, IDAHO**

**PREPARED FOR:
STATE OF IDAHO
DIVISION OF PUBLIC WORKS
502 N. 4TH STREET
BOISE, IDAHO 83720**

PREPARED BY:



**P.O. BOX 73
BOISE, IDAHO 83729
3326.18914.01**

NOVEMBER 2018

ASBESTOS SURVEY AND ASBESTOS REPORT

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APPENDIX A – 1995 ASBESTOS SURVEY & ASSESSMENT – LABORATORY REPORT

1.0 INTRODUCTION

1.1 Background and Scope

The Idaho Department of Administration Len B. Jordan (LBJ) Building is located on the Capital Mall at 650 West State Street in Boise, Idaho. The LBJ Building is a three-story pre-cast concrete, steel, CMU block and wood/metal framed structure consisting of approximately 96,906 square feet of floor space. The building is comprised of a main floor (ground level), two upper floors, a full basement, and a penthouse mechanical located on the roof of the structure.

On November 14th, 2018, 2018 Tim Bird of AECOM – N&E Technical Services, LLC (AECOM) conducted an inspection and survey for asbestos-containing materials (ACMs) within the LBJ Building. This inspection and survey were conducted at the request of the Idaho Division of Public Works (DPW) represented by Josh Lewis, Asbestos Program Coordinator and included inspection of the building to facilitate selective demolition and renovation of the building.

AECOM was authorized to survey and collect samples of all accessible suspect building materials and components (with the exception of the roofing components) for the presence of asbestos, to verify condition, location, and quantity of ACM, and to make recommendations and provide estimates regarding removal cost of ACM throughout the building.

AECOM [formerly Morrison-Knudsen Engineers, Inc. (MK)] previously surveyed LBJ Building in 1995 under the direction of DPW for the presence of friable and non-friable asbestos-containing materials (with the exception of the roofing), DPW project #96-921. The initial asbestos survey by MK was limited in scope to the inspection of building materials within the building that were readily accessible. Copies of MK's 1995 findings (i.e., laboratory reports) have been included in Appendix A of this report.

1.2 Summary of Findings

The LBJ Building was occupied during the inspection and is in good-to-fair condition and has undergone several renovations over the years as evidenced by the renovated office spaces, conference rooms, and the newer non-asbestos vinyl flooring found in various locations within the building. Regulated asbestos-containing materials were found during the site inspection.

1.2.1 Regulated Asbestos-containing Materials

Regulated asbestos-containing materials identified during the inspection include: (1) non-friable black tar-like caulking (7% Chrysotile) found on the floor and around the base of penthouse walls, (2) non-friable beige 12-inch vinyl floor tile (2% Chrysotile) and black floor tile mastic (5% Chrysotile) found in various locations, and (3) friable TSI mudded fitting insulation (15% Chrysotile) found on the steam, chilled and domestic water lines, the roof drain lines, and the emergency generator exhaust stack.



The asbestos-containing materials were found to be in good-to-fair condition and can be managed in place. The non-friable black tar-like caulking and beige 12-inch vinyl floor tile and black floor tile mastic and the friable TSI mudded fitting insulation, if not managed properly, may become damaged and release fibers into the surrounding atmosphere (airborne), which poses a potential health threat to the building occupants and state employees.

Place the asbestos-containing materials in an operation and maintenance program and maintain in-place until the materials can be removed and disposed of properly.

Control access to the asbestos-containing materials, ensuring that the materials are not subjected to sanding, grinding, cutting, drilling, and/or abrading, until a competent abatement contractor can abate the asbestos-containing materials.

Routinely alert all applicable state employees, maintenance and custodial personnel, building occupants, visitors, and outside contractor personnel of the presence of asbestos-containing materials within the building and/or work areas.

If it is determined at any future point that the asbestos-containing materials are about to become damaged (through deterioration, removal, sanding, grinding, drilling, abrading, etc.), implement an abatement program per 29 CFR 1926.1101 OSHA construction standard.

Prior to renovation of those spaces, or demolition of the building where ACM is present, the “regulated” asbestos-containing materials need to be removed by a competent asbestos abatement contractor as required under NESHAP and per 29 CFR 1926.1101 OSHA Construction Standard. The ACM should be disposed of at a facility permitted under 40 CFR Subchapter I to accept asbestos waste.

1.2.2 Non-regulated Materials (containing 1% or less asbestos) or Non-Asbestos Materials

The following sampled materials were found not to contain regulated quantities of asbestos:

- Stucco finish – exterior first floor (ground level) soffits beneath the second floor.
- Pre-cast aggregate exterior walls – ground floor and upper levels.
- Travertine (stone) – exterior columns and interior lobby walls.
- Expansion joint caulking – caulking and foam located between the sections pre-cast exterior walls and the travertine.
- CMU block and mortar – interior walls, various locations.
- Asphalt roofing material – floor of penthouse mechanical room.
- Brown fiberboard and yellow rigid fiber glass insulation – found beneath the old asphalt roofing penthouse mechanical room.
- Dust found on top of mechanical equipment and HVAC ductwork – located within the penthouse mechanical room.
- Grey caulking – exterior of HVAC ducts and air handlers.
- Red caulking (fire stop) – penetrations located inside penthouse mechanical room.



- White caulking – applied to exterior metal walls of the penthouse.
- Black caulking – found around the plastic/fiberglass panels used to cover the old vents located within the SE stairwell.
- 2’x4’ ceiling tiles wormhole pattern – suspended ceiling system used throughout the building.
- Stucco wall finish – electrical equipment room and stairwell walls.
- Plaster finish – interior concrete and CMU block and mortar walls and hard ceilings various locations.
- Drywall (sheetrock), joint compound – interior walls various styles, smooth, orange peel texture and vinyl covered found in various locations throughout LBJ Building.
- Pre-fab modular sheetrock walls – smooth or with vinyl covering various locations.
- Ceramic tile grout – restrooms and janitor's closets.
- Terrazzo floor – main lobby.
- 12-inch new vinyl floor tiles various colors and patterns with yellow mastic – exposed various locations.
- Gold sheet vinyl flooring – newer flooring, found basement canteen.
- Black stair treads – central stairwell.
- Vinyl cove base (various colors and sizes) with non-asbestos mastic – various locations.
- Duct insulation – HVAC ducting found throughout LBJ Building.
- Black rigid sound board insulation – interior of the HVAC air handlers.
- TSI (fiberglass) pipe-run insulation – found on the steam, chilled, roof drain and domestic water lines and exhaust from the emergency generator.
- Foam insulation – around pipe penetrations electrical equipment rooms.

1.2.3 Sample Analysis and Methodology

All samples of suspect ACM presented in this report have been analyzed by Polarized Light Microscopy (PLM). If any of the samples taken of a homogeneous material were positive for asbestos at greater than 1 percent (>1%), the material, in its entirety, was considered to contain asbestos.

Each sample listed within the report is identified by a unique alpha/numeric sample designation, such as LBJ-18-01. The three letters designate “Len B. Jordan” and the first set of numbers represent the year 2018 and the final two or three digits represent a sequential number of samples taken within the building. See Section 2.0, Survey Results, for photographic documentation, description and location of all sampled materials.

As stated previously, prior to renovation of those spaces or demolition of the building where ACM is present, the “regulated” asbestos-containing materials need to be removed by a competent asbestos abatement contractor as required under NESHAP and per 29 CFR 1926.1101 OSHA Construction Standard. The ACM should be disposed of at a facility permitted under 40 CFR Subchapter I to accept asbestos waste.

The conclusions provided within this report are professional opinions based solely upon visual site observations and interpretations of analyses as previously described. The opinions presented herein apply to the site conditions existing at the time of the site inspection, our limited access to asbestos-containing material during the survey, and interpretation of current regulations pertaining to asbestos-

containing materials. Therefore, these opinions and recommendations may not apply to future conditions that may exist at the site. All applicable federal, state and local regulations should always be verified prior to any work that may disturb suspected ACM.

1.3 Preliminary Cost Estimates

The following preliminary cost information reflects cost estimates used throughout the industry, and is based on removal of all ACM within the building as a single abatement project, with the building unoccupied. The abatement costs are based on the State’s standard PCM clearance requirements.

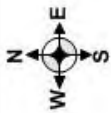
This is not a recommendation for removal, but a monetary budget guide in case removal, renovation, or demolition should be undertaken. Reinstallation and replacement cost estimates would have to be considered at the time of future abatement due to possible renovation.

Preliminary abatement cost estimates are:

<u>Material Description</u>	<u>Abatement</u>
• Black tar-like coating – penthouse mechanical room, approximately 600 SF	\$12,000.00
• 12-inch beige vinyl floor tiles and black mastic – exposed and concealed beneath carpet, approximately 36,000 SF	\$300,000.00
• TSI mudded fittings – steam, chilled and domestic water lines, roof drains and emergency generator exhaust stack, approximately 180 EA	<u>\$18,000.00</u>
	Total \$330,000.00

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1st Floor

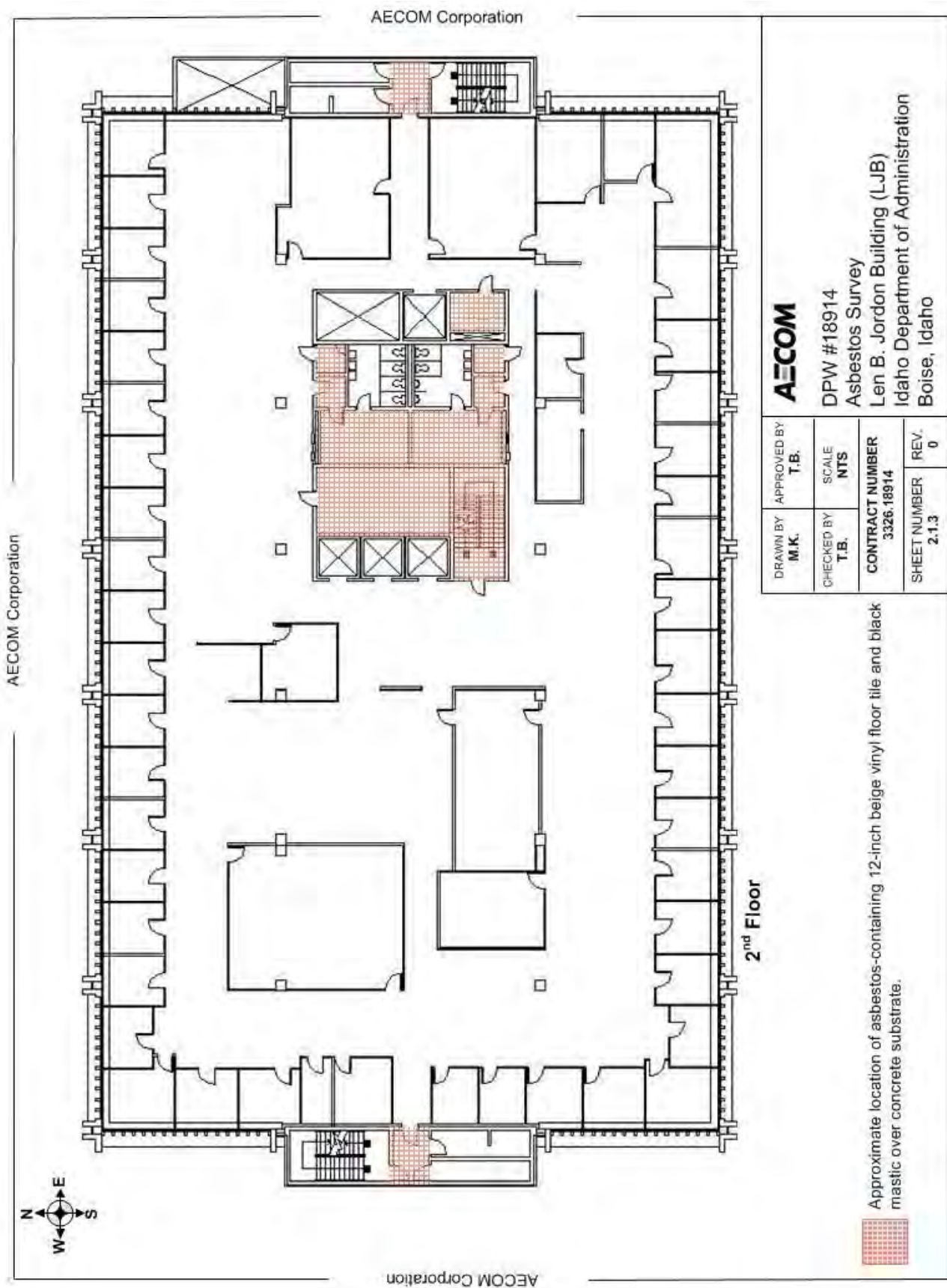
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CHECKED BY T.B.	SCALE NTS
CONTRACT NUMBER 3326.18914	
SHEET NUMBER 2.1.2	REV. 0

AECOM

DPW #18914
 Asbestos Survey
 Len B. Jordan Building (LJB)
 Idaho Department of Administration
 Boise, Idaho

-  Approximate location of asbestos-containing 12-inch beige vinyl floor tile and black mastic concealed beneath carpeting over concrete substrate.
-  Approximate location of asbestos-containing 12-inch beige vinyl floor tile and black mastic over concrete substrate.

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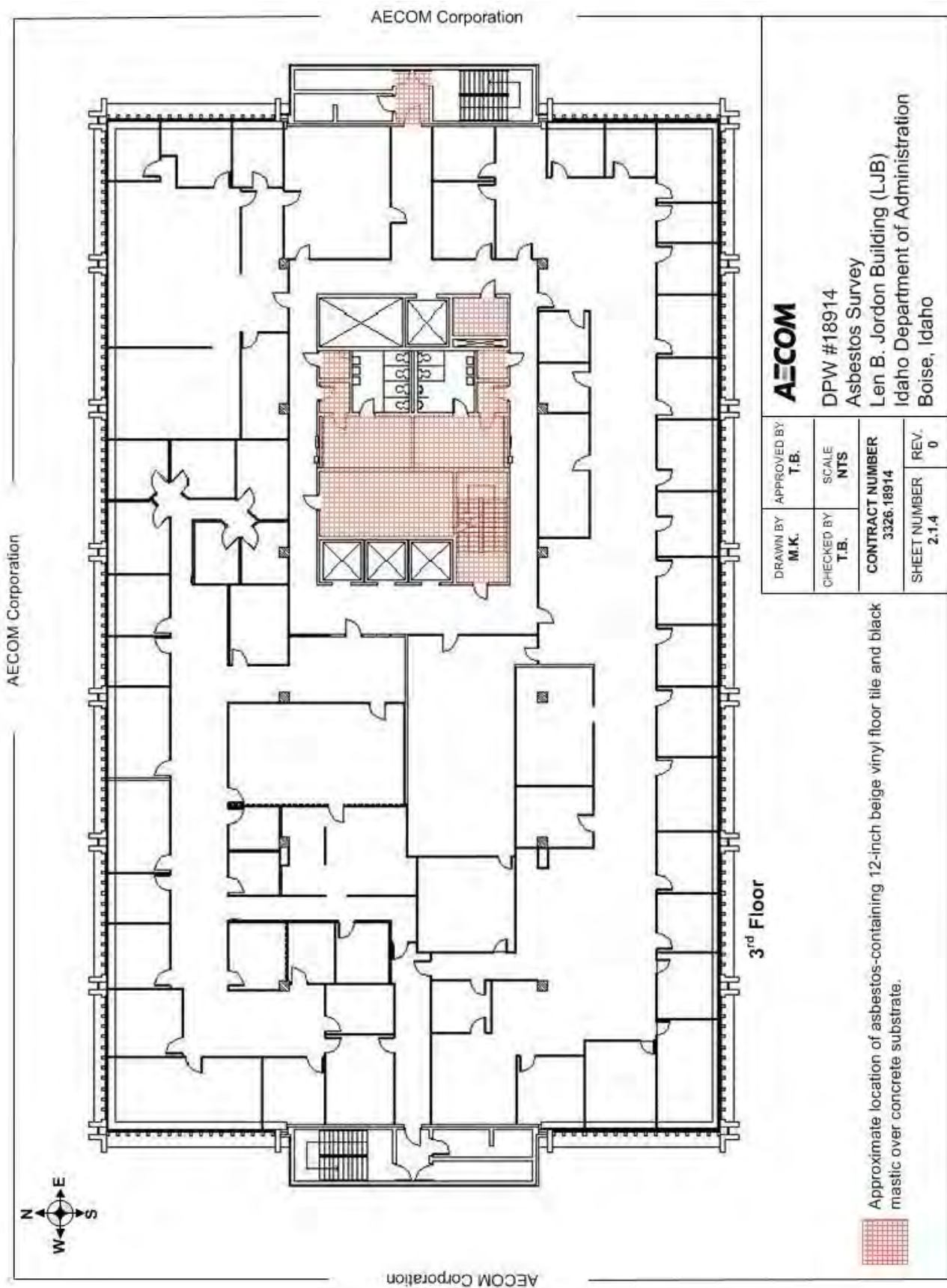
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DPW #18914
 Asbestos Survey
 Len B. Jordon Building (LJB)
 Idaho Department of Administration
 Boise, Idaho

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CHECKED BY T.B.	CONTRACT NUMBER 3326.18914	
SHEET NUMBER 2.1.3	REV. 0	

Approximate location of asbestos-containing 12-inch beige vinyl floor tile and black mastic over concrete substrate.





AECOM	
DPW #18914 Asbestos Survey Len B. Jordon Building (LJB) Idaho Department of Administration Boise, Idaho	
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CHECKED BY T.B.	SCALE NTS
CONTRACT NUMBER 3326.18914	
SHEET NUMBER 2.1.4	REV. 0

Approximate location of asbestos-containing 12-inch beige vinyl floor tile and black mastic over concrete substrate.



3rd Floor

2.2 Photo Log of Materials Containing 1% or Less Asbestos



1. **View of the non-asbestos stucco applied to the soffit, pre-cast aggregate exterior walls and the travertine on the columns found on the exterior of LBJ.**

2. **View of the non-asbestos expansion joint caulking found between sections of the pre-cast aggregate exterior walls found around the exterior of LBJ.**



3. **View of the non-asbestos old asphalt roofing found in the penthouse mechanical room.**



4. View of the non-asbestos yellow rigid fiberglass board found beneath the old asphalt roofing located in the penthouse mechanical room.

5. View of the non-asbestos dust found on the HVAC ducting and air handling equipment located in the penthouse.

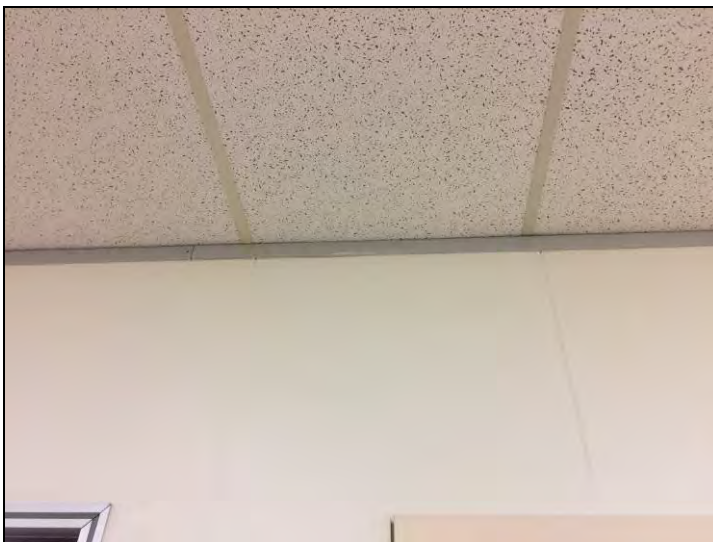


6. View of the non-asbestos grey caulking found on the exterior of the ducting and the air handlers located in the penthouse mechanical room.



7. View of the non-asbestos grey caulking found on the exterior metal sidewalls of the penthouse mechanical room located on the top of the LBJ Building.

8. View of the non-asbestos stucco wall finish and the black caulking found around the plastic/fiberglass panels used to cover the old vents located within the SE stairwell.

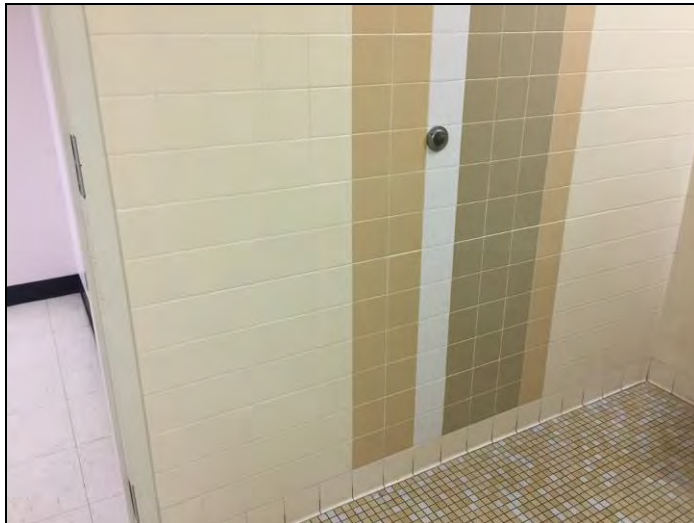


9. View of the non-asbestos 2'x4' ceiling tiles and the pre-fab sheetrock walls found in various locations throughout LBJ the Building.



10. View of the non-asbestos plaster finish and vinyl covering found on the plaster and sheetrock walls found in various locations throughout LBJ Building.

11. View of the non-asbestos ceramic tile grout found within the restrooms' walls within LBJ Building.



12. View of the new non-asbestos terrazzo flooring and travertine stone wall finish found in main elevator lobby area.



13. View of the new non-asbestos grey sheet vinyl floor tile found in several locations throughout LBJ Building.

14. View of the new non-asbestos tan and grey vinyl floor tile found in the 2nd floor breakroom.



15. View of the non-asbestos gold sheet vinyl flooring found in the basement canteen.



16. View of the non-asbestos TSI fiberglass pipe-run insulation found on the steam, chilled, roof drain and domestic water lines and exhaust from the emergency generator.

17. View of the non-asbestos black rigid insulation board found on the interior of the HVAC air handlers.



18. View of the non-asbestos foam insulation applied to the pipes and conduits at penetrations through the concrete floors.

2.3 Laboratory Report/Chain of Custody/Inspector Certification



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 Client ID: 180026t

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 P.O. Box 83720
 Boise, Idaho 83720-0072

Phone: 208-332-1908
 Email: Joshua.lewis@adm.idaho.gov
 Received Date: November 21, 2018
 Analysis Date: November 21, 2018

DPW# 18914
 Project: Len B. Jordon Building

Submitted by: Tim A. Bird

Asbestos Analysis of Materials using Polarized Light Microscopy (EPA Method 600/R-93/116)

Sample Log #	Client's Sample #	Description	Appearance	Non-Asbestos		Asbestos
				% Fibrous	% Non-Fibrous	% Type
4411	LBJ-18-01	Stucco soffit, exterior	grey cementitious granular		100% Other	None Detected
4412	LBJ-18-02	Stucco soffit, exterior south end	grey cementitious granular		100% Other	None Detected
4413	LBJ-18-03	Stucco soffit, exterior north side	grey cementitious granular		100% Other	None Detected
4414	LBJ-18-04	Agerit, modular exterior walls	white cementitious granular		100% Other	None Detected
4415	LBJ-18-05	Agerit, modular exterior walls pre-fab exterior walls west side	white cementitious granular		100% Other	None Detected
4416	LBJ-18-06	Agerit, modular exterior walls east side	white cementitious granular		100% Other	None Detected
4417	LBJ-18-07	Travertine, exterior columns/interior walls	cream cementitious granular		100% Other	None Detected
4418	LBJ-18-08	Travertine, exterior columns/interior walls, SE corner column	cream cementitious granular		100% Other	None Detected
4419	LBJ-18-09	Travertine, exterior columns/interior walls, interior lobby	cream cementitious granular		100% Other	None Detected
4420	LBJ-18-10	Expansion joint caulking/foam, exterior walls	white/orange compact resilient		100% Other	None Detected
4421	LBJ-18-11	Expansion joint caulking/foam, exterior walls, joints between modular walls	white/orange compact resilient		100% Other	None Detected
4422	LBJ-18-12	Expansion joint caulking/foam, exterior walls, joints between travertine	white/orange compact resilient		100% Other	None Detected



Asbestos Analysis of Materials using Polarized Light Microscopy (EPA Method 600/R-93/116)

Sample Log #	Client's Sample #	Description	Appearance	Non-Asbestos		Asbestos
				% Fibrous	% Non-Fibrous	% Type
4423	LBJ-18-13	CMU block/mortar, interior wall	grey cementitious granular		100% Other	None Detected
4424	LBJ-18-14	CMU block/mortar, interior wall various locations	grey cementitious granular		100% Other	None Detected
4425	LBJ-18-15	CMU block/mortar, interior wall 2nd floor west elec rm	grey cementitious granular		100% Other	None Detected
4426	LBJ-18-16	Asphalt roofing material, floor of penthouse mech rm	black bituminous fibrous	30% Cellulose	70% Other	None Detected
4427	LBJ-18-17	Asphalt roofing material, floor of penthouse mech rm by SW entry door	black bituminous fibrous	30% Cellulose	70% Other	None Detected
4428	LBJ-18-18	Asphalt roofing material, floor of penthouse mech rm, northside at damaged area	black bituminous fibrous	30% Cellulose	70% Other	None Detected
4429	LBJ-18-19	Brown fiberboard, found beneath asphalt roofing penthouse	brown loose fibrous	65% Cellulose	35% Other	None Detected
4430	LBJ-18-20	Brown fiberboard, found beneath asphalt roofing penthouse by entry door	brown loose fibrous	65% Cellulose	35% Other	None Detected
4431	LBJ-18-21	Brown fiberboard, found beneath asphalt roofing penthouse northside	brown loose fibrous	65% Cellulose	35% Other	None Detected
4432	LBJ-18-22	Yellow rigid fiber glass insulation,	compact		100% Other	None Detected
4433	LBJ-18-23	Yellow rigid fiber glass insulation, penthouse beneath asphalt roofing	compact		100% Other	None Detected
4434	LBJ-18-24	Yellow rigid fiber glass insulation, northside of penthouse	compact		100% Other	None Detected
4435	LBJ-18-25	Black tar like caulking , walls of penthouse	black bituminous fibrous	20% Cellulose	73% Other	7% Chrysotile
4436	LBJ-18-26	Black tar like caulking , walls of penthouse base of west side	black bituminous fibrous	20% Cellulose	73% Other	7% Chrysotile
4437	LBJ-18-27	Black tar like caulking , walls of penthouse base of south wall	black bituminous fibrous	20% Cellulose	73% Other	7% Chrysotile



Asbestos Analysis of Materials using Polarized Light Microscopy (EPA Method 600/R-93/116)

Sample Log #	Client's Sample #	Description	Appearance	Non-Asbestos		Asbestos
				% Fibrous	% Non-Fibrous	% Type
4438	LBJ-18-28	Dust found on top of mechanical equipment	brown loose fibrous	35% Synthetic	65% Other	None Detected
4439	LBJ-18-29	Dust found on top of HVAC ductwork	brown loose fibrous	35% Synthetic	65% Other	None Detected
4440	LBJ-18-30	Dust found on top of mechanical equipment south side of penthouse	brown loose fibrous	35% Synthetic	65% Other	None Detected
4441	LBJ-18-31	Grey caulking, exterior of HVAC ducts	compact resilient fibrous	20% Synthetic	80% Other	None Detected
4442	LBJ-18-32	Grey caulking, exterior of HVAC ducts penthouse air handler	compact resilient fibrous	20% Synthetic	80% Other	None Detected
4443	LBJ-18-33	Grey caulking, exterior of HVAC ducts basement air handler	compact resilient fibrous	20% Synthetic	80% Other	None Detected
4444	LBJ-18-34	Red caulking (fire stop), penetrations inside penthouse mech.	compact resilient fibrous	30% Synthetic	70% Other	None Detected
4445	LBJ-18-35	Red caulking (fire stop), penetrations inside penthouse mech. around HVAC ducts	compact resilient fibrous	30% Synthetic	70% Other	None Detected
4446	LBJ-18-36	Red caulking (fire stop), penetrations inside penthouse mech. west side of air handler	compact resilient fibrous	30% Synthetic	70% Other	None Detected
4447	LBJ-18-37	White caulking, applied to exterior of metal penthouse walls	compact resilient		100% Other	None Detected
4448	LBJ-18-38	White caulking, applied to exterior of metal penthouse walls joint in siding north side	compact resilient		100% Other	None Detected
4449	LBJ-18-39	White caulking, applied to exterior of metal penthouse walls south side	compact resilient		100% Other	None Detected
4450	LBJ-18-40	Black caulking, around plastic/fiberglass panels used to cover vents	compact resilient		100% Other	None Detected
4451	LBJ-18-41	Black caulking, around plastic/fiberglass panels used to cover vents, 2d floor south east stairwell	compact resilient		100% Other	None Detected



Asbestos Analysis of Materials using Polarized Light Microscopy (EPA Method 600/R-93/116)

Sample Log #	Client's Sample #	Description	Appearance	Non-Asbestos		Asbestos
				% Fibrous	% Non-Fibrous	% Type
4452	LBJ-18-42	Black caulking, around plastic/fiberglass panels used to cover vents, 3rd floor SE stairwell	compact resilient		100% Other	None Detected
4453	LBJ-18-43	2'x4' ceiling tiles wormhole pattern	white semi compact fibrous	25% Cellulose 30% Glass	45% Other	None Detected
4454	LBJ-18-44	2'x4' ceiling tiles wormhole pattern, 1st floor hallway	white semi compact fibrous	25% Cellulose 30% Glass	45% Other	None Detected
4455	LBJ-18-45	2'x4' ceiling tiles wormhole pattern, basement various locations	white semi compact fibrous	25% Cellulose 30% Glass	45% Other	None Detected
4456	LBJ-18-46	Stucco wall finish, electrical equipment room 3rd floor	grey cementitious granular		100% Other	None Detected
4457	LBJ-18-47	Stucco wall finish, electrical equipment room 2nd floor SE stairwell	grey cementitious granular		100% Other	None Detected
4458	LBJ-18-48	Stucco wall finish, electrical equipment room basement mech/store room	grey cementitious granular		100% Other	None Detected
4459	LBJ-18-49	Plaster finish, interior walls/ceilings various locations	white cementitious granular		100% Other	None Detected
4460	LBJ-18-50	Plaster finish, interior center core store room wall 3d floor	white cementitious granular		100% Other	None Detected
4461	LBJ-18-51	Plaster finish, interior ceiling 1st floor men's restroom	white cementitious granular		100% Other	None Detected
4462	LBJ-18-52	Drywall/joint compound, interior walls basement	white semi compact powdery fibrous	20% Cellulose	80% Other	None Detected
4463	LBJ-18-53	Drywall/joint compound, interior walls 3rd fl various locations	white semi compact powdery fibrous	20% Cellulose	80% Other	None Detected
4464	LBJ-18-54	Drywall/joint compound, interior walls 2nd floor	white semi compact powdery fibrous	20% Cellulose	80% Other	None Detected



Asbestos Analysis of Materials using Polarized Light Microscopy (EPA Method 600/R-93/116)

Sample Log #	Client's Sample #	Description	Appearance	Non-Asbestos		Asbestos
				% Fibrous	% Non-Fibrous	% Type
4465	LBJ-18-55	Vinyl covered drywall, various locations	white semi compact powdery fibrous	10% Cellulose 20% Synthetic	70% Other	None Detected
4466	LBJ-18-56	Vinyl covered drywall, 1st floor	white semi compact powdery fibrous	10% Cellulose 20% Synthetic	70% Other	None Detected
4467	LBJ-18-57	Vinyl covered drywall, 3rd floor	white semi compact powdery fibrous	10% Cellulose 20% Synthetic	70% Other	None Detected
4468	LBJ-18-58	Modular sheetrock, pre-fab walls various locations	white semi compact powdery fibrous	20% Cellulose	80% Other	None Detected
4469	LBJ-18-59	Modular sheetrock, pre-fab walls 2nd floor office areas	white semi compact powdery fibrous	20% Cellulose	80% Other	None Detected
4470	LBJ-18-60	Modular sheetrock, pre-fab walls 3rd floor office SW corner	white semi compact powdery fibrous	20% Cellulose	80% Other	None Detected
4471	LBJ-18-61	Modular sheetrock, pre-fab walls basement south side	white semi compact powdery fibrous	20% Cellulose	80% Other	None Detected
4472	LBJ-18-62	Ceramic tile grout, 1st floor men's restroom	white semi compact		100% Other	None Detected
4473	LBJ-18-63	Ceramic tile grout, 2nd floor janitor's closet	white semi compact		100% Other	None Detected
4474	LBJ-18-64	Ceramic tile grout, 3rd floor men's restroom	white semi compact		100% Other	None Detected
4475	LBJ-18-65	Terrazzo floor, main lobby	white cementitious granular		100% Other	None Detected
4476	LBJ-18-66	Terrazzo floor, main lobby southwest side	white cementitious granular		100% Other	None Detected
4477	LBJ-18-67	Terrazzo floor, main lobby north entry	white cementitious granular		100% Other	None Detected
4478	LBJ-18-68	Beige 12-inch vinyl floor tile/black mastic	hard compact granular with fibers		3% Mastic 95% Other	5% Chrysotile in mastic 2% Chrysotile in tile



Asbestos Analysis of Materials using Polarized Light Microscopy (EPA Method 600/R-93/116)

Sample Log #	Client's Sample #	Description	Appearance	Non-Asbestos		Asbestos
				% Fibrous	% Non-Fibrous	% Type
4479	LBJ-18-69	Beige 12-inch vinyl floor tile/black mastic	hard compact granular with fibers		3% Mastic 95% Other	5% Chrysotile in mastic 2% Chrysotile in tile
4480	LBJ-18-70	Beige 12-inch vinyl floor tile/black mastic	hard compact granular with fibers		3% Mastic 95% Other	5% Chrysotile in mastic 2% Chrysotile in tile
4481	LBJ-18-71	New tan 12-inch vinyl floor tile/mastic	hard compact granular		<1% Mastic 100% Other	None Detected
4482	LBJ-18-72	New tan 12-inch vinyl floor tile/mastic, 2nd fl breakroom	hard compact granular		<1% Mastic 100% Other	None Detected
4483	LBJ-18-73	New tan 12-inch vinyl floor tile/mastic, 2nd fl breakroom	hard compact granular		<1% Mastic 100% Other	None Detected
4484	LBJ-18-74	New 12-inch grey vinyl floor tile/mastic	hard compact granular		<1% Mastic 100% Other	None Detected
4485	LBJ-18-75	New 12-inch grey vinyl floor tile/mastic, 2nd floor breakroom	hard compact granular		<1% Mastic 100% Other	None Detected
4486	LBJ-18-76	New 12-inch grey vinyl floor tile/mastic, at broken tile	hard compact granular		<1% Mastic 100% Other	None Detected
4487	LBJ-18-77	New 12-inch tan/white vinyl floor tile, 3rd floor copy room	hard compact granular		<1% Mastic 100% Other	None Detected
4488	LBJ-18-78	New 12-inch tan/white vinyl floor tile, 3rd floor	hard compact granular		<1% Mastic 100% Other	None Detected
4489	LBJ-18-79	New 12-inch tan/white vinyl floor tile, breakroom	hard compact granular		<1% Mastic 100% Other	None Detected
4490	LBJ-18-80	New 12-inch grey vinyl floor tile/mastic	hard compact granular		3% Mastic 97% Other	None Detected
4491	LBJ-18-81	New 12-inch grey vinyl floor tile/mastic, 3rd floor breakroom	hard compact granular		3% Mastic 97% Other	None Detected
4492	LBJ-18-82	New 12-inch grey vinyl floor tile/mastic, 3rd floor storeroom	hard compact granular		3% Mastic 97% Other	None Detected
4493	LBJ-18-83	Gold sheet vinyl flooring, basement canteen	compact layered resilient		3% Mastic 97% Other	None Detected
4494	LBJ-18-84	Gold sheet vinyl flooring, basement canteen along north wall	compact layered resilient		3% Mastic 97% Other	None Detected



Asbestos Analysis of Materials using Polarized Light Microscopy (EPA Method 600/R-93/116)

Sample Log #	Client's Sample #	Description	Appearance	Non-Asbestos		Asbestos
				% Fibrous	% Non-Fibrous	% Type
4495	LBJ-18-85	Gold sheet vinyl flooring, basement canteen main south entry	compact layered resilient		3% Mastic 97% Other	None Detected
4496	LBJ-18-86	Black stair treads, south landing central stairwell	compact resilient		5% Mastic 95% Other	None Detected
4497	LBJ-18-87	Black stair treads, south landing central stairwell 2nd floor landing	compact resilient		5% Mastic 95% Other	None Detected
4498	LBJ-18-88	Black stair treads, south landing central stairwell 3rd floor landing	compact resilient		5% Mastic 95% Other	None Detected
4499	LBJ-18-89	Black vinyl cove base, various locations	compact resilient		5% Mastic 95% Other	None Detected
4500	LBJ-18-90	Black vinyl cove base, entry to 2nd floor SE stairwell	compact resilient		5% Mastic 95% Other	None Detected
4501	LBJ-18-91	Black vinyl cove base, 1st floor	compact resilient		5% Mastic 95% Other	None Detected
4502	LBJ-18-92	Pale green vinyl cove base	compact resilient		5% Mastic 95% Other	None Detected
4503	LBJ-18-93	Pale green vinyl cove base, 2nd floor various locations	compact resilient		5% Mastic 95% Other	None Detected
4504	LBJ-18-94	Pale green vinyl cove base, office area	compact resilient		5% Mastic 95% Other	None Detected
4505	LBJ-18-95	New tan cove base, 3rd floor	compact resilient		5% Mastic 95% Other	None Detected
4506	LBJ-18-96	New tan cove base, 3rd floor various locations	compact resilient		5% Mastic 95% Other	None Detected
4507	LBJ-18-97	New tan cove base, 3rd floor breakroom	compact resilient		5% Mastic 95% Other	None Detected
4508	LBJ-18-98	Light grey vinyl cove base	compact resilient		5% Mastic 95% Other	None Detected
4509	LBJ-18-99	Light grey vinyl cove base, various locations	compact resilient		5% Mastic 95% Other	None Detected
4510	LBJ-18-100	Light grey vinyl cove base, various locations	compact resilient		5% Mastic 95% Other	None Detected
4511	LBJ-18-101	TSI mudded fitting insulation , 3rd floor roof drain line	white semi compact powdery fibrous	10% Cellulose 15% Glass	60% Other	15% Chrysotile
4512	LBJ-18-102	TSI mudded fitting insulation , chilled water basement mech rm	white semi compact powdery fibrous	10% Cellulose 15% Glass	60% Other	15% Chrysotile



Asbestos Analysis of Materials using Polarized Light Microscopy (EPA Method 600/R-93/116)

Sample Log #	Client's Sample #	Description	Appearance	Non-Asbestos		Asbestos
				% Fibrous	% Non-Fibrous	% Type
4513	LBJ-18-103	TSI mudded fitting insulation , steam line supply	white semi compact powdery fibrous	10% Cellulose 15% Glass	60% Other	15% Chrysotile
4514	LBJ-18-104	TSI mudded fitting insulation , domestic water	white semi compact powdery fibrous	10% Cellulose 15% Glass	60% Other	15% Chrysotile
4515	LBJ-18-105	TSI mudded fitting insulation , exhaust stack from emergency gen	white semi compact powdery fibrous	10% Cellulose 15% Glass	60% Other	15% Chrysotile
4516	LBJ-18-106	Duct insulation, HVAC ducts 3rd fl	yellow/silver/tan compact to loose fibrous	30% Cellulose 45% Glass	25% Other	None Detected
4517	LBJ-18-107	Duct insulation, HVAC ducts above 2nd floor ceiling	yellow/silver/tan compact to loose fibrous	30% Cellulose 45% Glass	25% Other	None Detected
4518	LBJ-18-108	Duct insulation, HVAC ducts basement mech room	yellow/silver/tan compact to loose fibrous	30% Cellulose 45% Glass	25% Other	None Detected
4519	LBJ-18-109	Black rigid sound board insulation	brown fibrous	70% Glass	30% Other	None Detected
4520	LBJ-18-110	Black rigid sound board insulation, inside air handlers	brown fibrous	70% Glass	30% Other	None Detected
4521	LBJ-18-111	Black rigid sound board insulation, basement mech room	brown fibrous	70% Glass	30% Other	None Detected
4522	LBJ-18-112	TSI pipe run insulation, roof drains	yellow loose fibrous with bitumen	90% Glass	10% Other	None Detected
4523	LBJ-18-113	TSI pipe run insulation, roof drains chilled water	yellow loose fibrous	100% Glass		None Detected
4524	LBJ-18-114	TSI pipe run insulation, roof drains steam lines	yellow loose fibrous	100% Glass		None Detected
4525	LBJ-18-115	Foam insulation, around pipe penetrations	yellow compact		100% Other	None Detected
4526	LBJ-18-116	Foam insulation, around pipe penetrations between 3rd/2nd floor	yellow compact		100% Other	None Detected
4527	LBJ-18-117	Foam insulation, around pipe penetrations electrical equipment rm	yellow compact		100% Other	None Detected



L&R Group – Technical Services Division
1859 South Topaz Way, Suite 104
Meridian, Idaho 83642
(208) 813-6160
www.thelandrgroup.com / laurie@thelandrgroup.com

L&R COC #: L00676
Client ID: 180026t

Samples collected by: Tim A. Bird

Analysis Performed by:

Laurie Kuther, Laboratory Manager

Report Reviewed by:

Jon Kruck, Division Manager

L&R Group maintains liability to cost of analysis. This report relates to only the samples submitted and may not be reproduced, except in full, without written approval by L&R Group. Unless otherwise noted, samples submitted for analysis are considered to be in good condition. Unless requested by the client, building materials manufactured with multiple layers are reported as a single sample. Samples were analyzed using EPA method 600/R-93/116. For the identification of asbestos fibers, resolution limitations exist for the polarized light microscope. Non friable, organically-bound materials may need additional analysis. This report pertains only to the samples as submitted to L&R Group. For this report, asbestos found in samples will be reported in percentages and fiber type, unless otherwise noted.



AECOM - N&E Technical Services, LLC
 750 East Winchester Street, Suite 400
 Salt Lake City, UT 84107

Client Name: **Tim A. Bird** WO # **3326/18914**
Len B. Jordan Building

Analysis Type: ICM ILM IAH
 Turnaround Time: 24 Hours 48 Hours 72 Hours
 Sample Status: New Re-test Archived Samples for One Year

INVOICE TO:
 Company Name: State of Idaho DPW
 Address: 502 N. 4th Street
 City/State/Zip: Boise, Idaho 82720
 Phone #: (208) 332-1908
 Contact Person: Josh Lewis
 Project/PO #: DPW Project # 18914

Company Name: State of Idaho DPW
 Address: 502 N. 4th Street
 City/State/Zip: Boise, Idaho 82720
 Phone #: (208) 332-1908

Contact Person: Josh Lewis
 Project/PO #: DPW Project # 18914

Blank IAA IAP IALX IALH IALB

Samples Collected by: **Tim Bird**

ASBESTOS LEAD CHAIN OF CUSTODY SAMPLE TRANSMITTAL FORM

No. _____
 Special Notes: **Standard Turn**
Please email results per to tim.a.bird@aecom.com
Thank you!
 T.A.B.

Lab #	Client Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Analyst	Flasks/Fields	Firm	Fee
1	LBJ-18-01	11/14/18	Bulk	stucco soffit exterior										
2	LBJ-18-02			" "										
3	LBJ-18-03			south end "										
4	LBJ-18-04			North side Agorit Modular Exterior walls										
5	LBJ-18-05			" " Pre-fab exterior walls West side "										
6	LBJ-18-06			" " East side										
7	LBJ-18-07			Traveling Exterior Columns/Interior walls										
8	LBJ-18-08			" " S.E. Corner Column										
9	LBJ-18-09			" " Interior Lobby										
10														

QATS-

Signature: Date: 11/15/18
 Title: _____
 Signature: _____ Date: _____
 Title: _____



AECOM - N&E Technical Services, LLC
 750 East Winchester Street, Suite 400
 Salt Lake City, UT 84107

INVOICE TO:
 Company Name: State of Idaho DPW
 Address: 502 N. 4th Street
 City/State/Zip: Boise, Idaho 82720
 Phone#: (208) 332-1908
 Contact Person: Josh Lewis
 Project PO #: DPW Project # 18914

**ASBESTOS/LEAD CHAIN OF CUSTODY
 SAMPLE TRANSMITTAL FORM**

No. _____
 Special Notes: Standard Tests
 Please email results per to
 tina.bird@aecom.com
 Thank you!
 T.B.

Project Name: Len B. Jordan Building
 Project # 3326/18914
 Analysis Type: Bulk
 Turnaround Time: _____
 Sample Status: _____

Client: Tim A. Bird
 W/C: _____
 Project # 3326/18914
 Analysis Type: Bulk
 Turnaround Time: _____
 Sample Status: _____

Samples Collected by: Tim Bird

Lab #	Client Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Analyst	Fibers/Fields	F/min	F/cc
1	LBJ-18-19	11/14/18	Bulk	Brown fiber board found beneath asphalt roofing Penthouse										
2	LBJ-18-20			" by entry door "										
3	LBJ-18-21			" North Side "										
4	LBJ-18-22			" Yellow Rigid Fiber glass Insulation "										
5	LBJ-18-23			" Penthouse beneath Asphalt roofing "										
6	LBJ-18-24			" Northside of Penthouse Black Tar like Caulking walls of Penthouse "										
7	LBJ-18-26			" base of Westside "										
8	LBJ-18-27			" base of South wall "										
10														

Requested by: T.A. Bird
 Date: 11/15/18
 Received by: (Date/Time)
 Requested by: (Date/Time)
 OWA - Outside Work Area
 IWA - Inside Work Area
 C - Clearance
 PA - Permittance
 N - Negative Air Machine Exhaust
 LF - Low Flow



AECOM - N&E Technical Services, LLC
758 East Winchester Street, Suite 400
Salt Lake City, UT 84107

INVOICE TO:

Company Name: State of Idaho DPW
Address: 502 N. 4th Street
City/State/Zip: Boise, Idaho 82720
Phone #: (208) 332-1908

Contact Person: Josh Lewis
Project/PO #: DPW Project # 18914

Tim A. Bird W/C # 3326, 18914

Project Name: Len B. Jordan Building

Analysis Type: PCM TEM LLA1 ARI
Turnaround Time: 14 Days Standard Expedited
Sample Status: Held Archived Archived Sample for One Year

**ASBESTOS/LEAD CHAIN OF CUSTODY
SAMPLE TRANSMITTAL FORM**

No. _____
Special Notes: Standard Turn
Please email results here to
tim.a.bird@aecom.com
Thank you!
Signature: _____
Title: _____

Samples Collected by: Tim Bird

Lab #	Client Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Analyst	Fibers/Field#	Firm	Floor
1	LBJ-18-28	11/14/18	Bulk	Dust found on top of Mechanical equipment										
2	LBJ-18-29			" Top of HVAC Ductwork										
3	LBJ-18-30			" " "										
4	LBJ-18-31			South side of Penthouse Gray Caulking exterior of HVAC Ducts										
5	LBJ-18-32			" " "										
	LBJ-18-33			Penthouse Airhandler										
	LBJ-18-34			" " "										
	LBJ-18-35			Basement Airhandler Red Caulking (Fire Stop) Penetrations inside Penthouse Mech.										
	LBJ-18-36			" " "										
	LBJ-18-36			around HVAC ducts										
	LBJ-18-36			" " "										
	LBJ-18-36			West side of Airhandler										
10														

PA - Pre-Abatement C - Clearance. IWA - Inside Work Area. OWA - Outside Work Area. NAA - Negative for Airborne Fibers. MF - High Flow. LF - Low Flow.
 Recurred by (Date/Time): 11/19/18
 Recurred by (Date/Time):
 Signature: _____
 Title: _____

4 of 13



AECOM - N&E Technical Services, LLC
 756 East Winchester Street, Suite 400
 Salt Lake City, UT 84107

INVOICE TO:

Company Name: State of Idaho DPW
 Address: 502 N. 4th Street
 City/State/Zip: Boise, Idaho 82720
 Phone #: (208) 332-1908

Contact Person: Josh Lewis
 Project PO #: DPW Project # 18914

Tim A Bird WFO # 3326, 18914
 Len B. Jordan Building

Analyst Name: TMB
 Turnaround Time: 1 Week
 Sample Status: Metres In-Stock

Method: Bulk 1/2" 1/4" 1/8" 1/16"
 Requested Hand Copied Mail

Archiving Samples for One Year

Samples Collected by: Tim Bird

**ASBESTOS/LEAD CHAIN OF CUSTODY
 SAMPLE TRANSMITTAL FORM**

No. _____
 Special Notes: Standard Turn
 Please email results per to
 tim.a.bird@aecom.com
 Thank you!
 TMB

Lab #	Client Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Fibers/Field	Analyst	F/Min	F/cc
LBJ-18-37		11/14/18	Bulk	White Caulking applied to exterior of Metal Posthouse walls										
LBJ-18-38				Joint in siding										
LBJ-18-39				Northside										
LBJ-18-40				Southside										
LBJ-18-41				Black Caulking around Plastic Fiberglass Panels used to cover vents										
LBJ-18-42				2 nd Floor Southeast Stairwell										
LBJ-18-43				3 rd Floor S.E. Stairwell										
LBJ-18-44				2'x4' Ceiling Tiles worm hole pattern										
LBJ-18-45				1 st Floor Hallway										
				Basement various locations										
10														

By: P. [Signature] EL - Emission Limit, WA - Fire Abatement, C - Clearance, IWA - Inside Work Area, DWA - Outside Work Area, MAH - Midget Air Machine Exhaust, HF - High Flow, LF - Low Flow
 Date: 11/15/18
 Requested by: [Signature]
 Released by: [Signature]



AECOM - N&E Technical Services, LLC
 758 East Winchester Street, Suite 400
 Salt Lake City, UT 84107

INVOICE TO:
 Company Name: State of Idaho DPW
 Address: 502 N. 4th Street
 City/State/Zip: Boise, Idaho 82720
 Phone#: (208) 332-1908
 Contact Person: Josh Lewis
 Project PO #: DPW Project # 18914

Project Name: LBJ Building
 Project Address: 3326 S Jordan Building
 Project City/State/Zip: Salt Lake City, UT 84107
 Project Phone: (208) 332-1891
 Project PO: Tim A. Bird

**ASBESTOS/LEAD CHAIN OF CUSTODY
 SAMPLE TRANSMITTAL FORM**

Specimen Matrix: Standard Lead
 Please email results per to: tim.a.bird@aecom.com
 Thank you!
 Signature: Tim Bird

Client: LBJ Building
 Project: 3326 S Jordan Building
 Date: 11/14/18
 Analyst: Tim Bird

Lab #	Client Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Fiber Analyst	Fiber/Fluide	F/mm	F/cc
1	LBJ-18-46	11/14/18	Bulk	Stucco Wall Finish Electrical Equipment Room 3rd Floor										
2	LBJ-18-47			" 2nd Floor S.E. Stairwell										
3	LBJ-18-48			" " " "										
4	LBJ-18-49			Basement New/Stucco Doors Plaster Finish Interior Walls/Ceilings Various Locations										
5	LBJ-18-50			" " " "										
6	LBJ-18-51			Center Core Stairs Room Wall 3rd Floor										
7	LBJ-18-52			" Ceiling 1st Floor Men's Restroom Drywall Joint Compound Exterior Walls Basement										
8	LBJ-18-53			" " " 3rd FL Various Locations										
9	LBJ-18-54			" " " "										
10				2nd Floor										

Prepared by: [Signature] EL, [Signature] PA, Prep Abatement C = Clearance, IWA = Inside Work Area, OWA = Outside Work Area, MAM Negative Asbestos, MF = High Flow, LF = Low Flow
 Date: 11/15/18
 Received by: [Signature]
 60413



AECOM - N&E Technical Services, LLC
 798 East Winchester Street, Suite 400
 Salt Lake City, UT 84107

INVOICE TO:

Company Name: State of Idaho DPW
 Address: 502 N. 4th Street
 Boise, Idaho 82720
 City/State/Zip: (208) 332-1908
 Phone #

Contact Person: Josh Lewis
 Project/PO #: DPW Project # 18914

Client: Tim A Bird
 Project: W.O. # 3326/18914
 Project Name: Len B. Jordan Building

Analysis Type: Bulk Air Soil Other
 Turnaround Time: 9-12 Days
 Sample Status: Available Requested

ASBESTOS LEAD CHAIN OF CUSTODY SAMPLE TRANSMITTAL FORM

Special Notes: Standard Tests
 Please email results to
 tim.a.bird@aecom.com
 Thank you!

Calibration Method: Tim Bird

Lab #	Client Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Analyst	Fibers/Fields	Firm	Fee
1	LBJ-18-55	11/14/18	Bulk	Vinyl covered Drywall VARIOUS LOCATIONS										
2	LBJ-18-56			1 st Floor										
3	LBJ-18-57			" " "										
4	LBJ-18-58			3 rd Floor Modular Sheetrock Walls various location	Pre-fab									
5	LBJ-18-59			" " " " " " " " " " " "										
6	LBJ-18-60			2 nd Floor office areas										
7	LBJ-18-61			" " " " " " " " " " " "										
8	LBJ-18-62			3 rd Floor office S.W. corner										
9	LBJ-18-63			" " " " " " " " " " " "										
10				basement south side Ceramic tile Grout 1 st Floor Men's Restroom " " " " " " " " " " " " 2 nd Floor Janitor's Closet										

Requested by: [Signature] 11/15/18
 Received by: [Signature] 7/6/13
 Requisitioned by (Date/Time):
 Relinquished by (Date/Time):
 Recieved by (Date/Time):



AECOM - N&E Technical Services, LLC
 758 East Winchester Street, Suite 400
 Salt Lake City, UT 84107

Project Name: **Len B. Jordan Building**
 Analyst: **Tim A. Bird**
 Turnaround Time: **3326/18914**

Sample Status: Wet Dry Air Bulk
 Requested Hard Copy Test

INVOICE TO:
 Company Name: State of Idaho DPW
 Address: 502 N. 4th Street
 City/State/Zip: Boise, Idaho 82720
 Phone #: (208) 332-1908
 Contact Person: Josh Lewis
 Project/PO #: DPW Project # 18914

ASBESTOS LEAD CHAIN OF CUSTODY
 SAMPLE TRANSMITTAL FORM

Special Notes:
 Standard Jaws
 Please email results like to
 tim.a.bird@aecom.com
 Thank you!

Samples Collected by: **Tim Bird**

Lab #	Client Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Analyst	Fibers/Field	F/mm	Floc
1	LBJ-18-64	11/14/18	Bulk	Ceramic tile Grout										
2	LBJ-18-65			3rd Floor Men's Restroom										
3	LBJ-18-66			Trazzo Floor										
4	LBJ-18-67			Main Lobby										
				K " " "										
				Southwest side										
				" " "										
				North entry										
				12-inch Vinyl Floor Tile/Black Plastic										
				" " "										
				1st Floor East Entry Hallway										
				" " "										
				3rd Floor Men's RR Vestibul										
				New Tan 12-inch Vinyl Floor Tile/Plastic										
				" " "										
				2nd Fl Break room										

11/15/18
 Tim A. Bird
 Requested by (Date/Time):
 OWA - Outside Work Area
 IWA - Inside Work Area
 NAW - Negative Air Machine Exhaust
 HF - High Flow
 LF - Low Flow
 Requested by (Date/Time):
 8 of 13



AECOM - N&E Technical Services, LLC
 756 East Winchester Street, Suite 400
 Salt Lake City, UT 84107

Tim A. Bird WFO # 3326/18914

Project Name **Len B. Jordan Building**

Analyst Type VLM PFM SEM LLD AOS

Turnaround Time Rush 24 Hour 48 Hour 72 Hour

Sample Status Being Analyzed Archived Requested

INVOICE TO:

Company Name State of Idaho DPW
 Address 502 N. 4th Street
 City/State/Zip Boise, Idaho 82720
 Phone # (208) 332-1908

Contact Person Josh Lewis
 Project/PC # DPW Project # 18914

MAIL FAX TELP CA SHIP (R/R)
 Hand Cop. mail

Samples Collected by **Tim Bird**

**ASBESTOS/LEAD CHAIN OF CUSTODY/
 SAMPLE TRANSMITTAL FORM**

No. _____
 Special Notes **Standard Turn**
Please email results to
tim.a.bird@aecom.com
Thank you!
 [Signature]

Chain of Custody

Lab #	Cilent Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Analyst	Fibers/Fields	F/mm	F/cc
1	LBJ-18-73	11/14/18	Bulk	New 12" TAN Floor Tile 2 ND Floor Break Room										
2	LBJ-18-74			New 12-INCH Gray Vinyl Floor Tile / Mastic										
	LBJ-18-75			" "										
	LBJ-18-76			2 ND Floor Break Room										
	LBJ-18-77			" "										
	LBJ-18-78			at broken tile										
	LBJ-18-79			New 12-Inch/white Vinyl Floor Tile 3 rd Floor Copy Room										
	LBJ-18-80			" "										
	LBJ-18-81			3 rd Floor										
	LBJ-18-81			" "										
	LBJ-18-81			Break Room										
	LBJ-18-81			New 12-INCH Gray Vinyl Floor Tile/Mastic										
	LBJ-18-81			" "										
	LBJ-18-81			3 rd Floor Break Room										

VI P [Signature] EL [Signature] IA [Signature] C - Clearance IWA - Inside Work Area DWA - Outside Work Area NAM - Negative Air Machine Enclosed HF - High Flow LF - Low Flow
 Date Analyzed by [Signature] 11/19/18
 Received by (Date/Time) [Signature] 9/13



AECOM - N&E Technical Services, LLC
 756 East Winchester Street, Suite 400
 Salt Lake City, UT 84107

INVOICE TO:

Company Name: State of Idaho DPW
 Address: 502 N. 4th Street
 Boise, Idaho 82720
 City/State/Zip: (208) 332-1908
 Phone #
 Contact Person: Josh Lewis
 Project/PO #: DPW Project # 18914

Project Name: W.O. # 3326/18914
 Len B. Jordan Building

Analysis Type: ✓
 Turnaround Time: ✓
 Sample Status: ✓

**ASBESTOS/LEAD CHAIN OF CUSTODY/
 SAMPLE TRANSMITTAL FORM**

No. _____
 Standard Form
 Please email results to
 tina.bird@aecom.com
 Thank you!
 Signature: _____
 Date: _____

Lab #	Client Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Analyst	Fibers/Field#	Fimm	F/cc
1	LBJ-18-82	11/14/18	Bulk	New 12-inch Grey vinyl Floor Tiles 3rd Floor Stair room										
2	LBJ-18-83			Gold Sheet Vinyl Flooring basement										
3	LBJ-18-84			along North wall										
4	LBJ-18-85			Main South Entry										
5	LBJ-18-86			Black Stair Treads South landing Stair well										
	LBJ-18-87													
	LBJ-18-88			2nd Floor Landing										
	LBJ-18-89			3rd Floor Landing Black Vinyl Cove base various locations										
	LBJ-18-90			2nd Floor SE Stairwell										

Requested by: _____ Date: 11/15/18
 Approved by: _____ Date: _____
 Method: _____
 Filter: _____
 Flow Rate: _____
 Volume: _____
 Analyst: _____
 Fibers/Field: _____
 Fimm: _____
 F/cc: _____



AECOM - N&E Technical Services, LLC
 788 East Winchester Street, Suite 400
 Salt Lake City, UT 84107

INVOICE TO:
 Company Name: State of Idaho DPW
 Address: 502 N. 4th Street
 City/State/Zip: Boise, Idaho 82720
 Phone #: (208) 332-1908
 Contact Person: Josh Lewis
 Project/PO #: DPW Project # 18914

W11 # 3326, 18914
 Project Name: Len B. Jordan Building
 Analysis Type: ✓ TLM ✓ IEM ✓ LEAD ✓ AIR
 Turnaround Time: 24 Hour ✓ Standard Requested
 Sample Status: ✓ Archival Sample for Client

**ASBESTOS LEAD CHAIN OF CUSTODY
 SAMPLE TRANSMITTAL FORM**

No. _____
 Special Notice: Standard Tests
 Please email results back to
 tim.a.bird@aecom.com
 Thank you!
 T.A.B.

Calibration Method: _____
 Samples Collected by: Tim Bird

Lab #	Client Sample #	Date	Sample Type	Sample Description	Type Pump#	Time Started	Time Ended	Total Minutes	Flow Rate LPM	Volume (Liters)	Analyst	Fibers/Fields	F/mm	P/cc
1	LBJ-18-91	11/14/18	Bulk	Black vinyl Cove base 1st floor										
2	LBJ-18-92			Pale green vinyl Cove base										
3	LBJ-18-93			" 2 nd Floor Various Locations										
4	LBJ-18-94			" office area										
5	LBJ-18-95			New Tan Cove Base 3 rd Floor										
6	LBJ-18-96			" Various Locations										
7	LBJ-18-97			break Room Light Grey vinyl Cove base										
8	LBJ-18-98			" Various Locations										
9	LBJ-18-99			" Various Locations										
10														

W11 # 3326, 18914
 Project Name: Len B. Jordan Building
 Analysis Type: ✓ TLM ✓ IEM ✓ LEAD ✓ AIR
 Turnaround Time: 24 Hour ✓ Standard Requested
 Sample Status: ✓ Archival Sample for Client

PA - Pre-Abatement C - Clearance IWA - Inside Work Area OWA - Outside Work Area NMI - Negative Air Machine Enclosed HF - High Flow LF - Low Flow

Requested by (Date/Time): 11/15/18
 Requested by (Date/Time):
 Received by (Date/Time):

T.A.B.



Certificate of Completion

Tim A. Bird

Has attended and successfully completed the
Asbestos Building Inspector

AHERA 4 Hours Refresher Training Course

In accordance with Title II of TSCA

40 CFR Part 763, Appendix C to Subpart E

Consistent with Utah Administrative Rule R307-801: Asbestos

Course Date: 2/2/2018

Certificate Number: 5855-01

Expiration Date: 2/2/2019

A handwritten signature in blue ink that reads 'Dayle Lundy'.

Instructor: Dayle Lundy

Industrial Hygiene Resources – 8312 W. Northview, Suite 100 – Boise, Idaho 83704
Tel: (208) 323-8287 Fax: (208) 323-0783

3.0 SURVEY METHODOLOGY, REGULATIONS AND RECOMMENDATIONS

3.1 Survey Methodology

To gather the greatest quantity of information in the time available, several investigative techniques were utilized. These included interviews with building maintenance personnel, a visual inspection and assessment of the building, sampling of suspect materials, and quantification of all confirmed asbestos-containing materials.

The inspector obtained and submitted for Polarized Light Microscopy (PLM) analysis multiple bulk samples of all accessible materials suspected of containing asbestos. All bulk samples were collected in accordance with EPA and OSHA guidelines. Samples were taken at various locations representative of homogeneous materials identified throughout each segment of the building.

The L&R Group – Technical Services Division (L&R), Meridian, Idaho was the laboratory retained by DPW for PLM bulk sample analysis of samples collected during the inspection. The laboratory is AIHA (American Industrial Hygiene Association) accredited and is a successful participant in AIHA PAT Round Robin Program (Laboratory No. 232330) for quality assurance in proficiency of bulk asbestos identification.

Samples were randomly chosen to be representative of each homogenous material. However, AECOM makes no representation, warranty, nor guarantee that the analytical results reported by the laboratory are representative of those conditions existing throughout the homogeneous area, or that material other than or in different proportions to those indicated may exist.

Additionally, all AECOM Professional Engineer or Certified Hazardous Materials Manager reviews of this document are limited to the project information and data presented in this report; therefore, no representation, warranty, or guarantee is implied or expressed of the site conditions from the AECOM Professional Engineer review.

3.2 Regulations

Building owners are governed by a variety of federal, state, and local regulations, which influence the way they must deal with ACM in their facilities. Some of these regulations, particularly at the state and local level, change frequently. Building owners should contact their state and local government agencies, in addition to organizations such as the National Conference of State Legislatures (NCSL), the National Institute of Building Sciences (NIBS), or EPA environmental assistance centers for updated information on these requirements.

EPA and OSHA regulations require that employers address a number of items when employees may be exposed to asbestos fibers that could be generated during maintenance, removal, renovation, or demolition activities. These regulations are discussed briefly:

- EPA amended the worker protection rule (WPR at 40 CRF Part 763) on August 15, 2000 to adopt OSHA's standard to protect the health of all local and state government employees from the harmful effects of asbestos. The amended EPA worker protection rule extends coverage to all construction projects involving both friable and non-friable

asbestos. EPA also expanded the scope of the WPR to all custodial operations that involve activities as basic as sweeping a floor or dusting a table.

- EPA NESHAP (40 CFR 61, November 20, 1990, Final Rule) promulgates emissions standards and reporting criteria for fugitive emissions of asbestos fibers. Additionally, it governs demolition and renovation projects in all facilities with notification requirements to EPA whether regulated quantities of ACM have been found or not.
- The NESHAP rule requires that owners conduct an asbestos inspection prior to demolition/renovation and have all friable regulated asbestos-containing materials (RACM) removed before demolition work begins. For renovation projects where RACM will be disturbed, the NESHAP rule may require appropriate work practices or procedures for the control of asbestos emissions. Any RACM (friable or non-friable which may become friable) poses a potential hazard that should be addressed.
- OSHA has specific requirements concerning worker protection and procedures. These include 29 CFR 1910.1001, General Industry, 29 CFR 1915.1001, Shipyard Industry, and 29 CFR 1926.1101, Construction Industry (asbestos) Standard.
- OSHA amended the General Industry Standard for asbestos (1910.1001). The previous existing asbestos standard for construction, 1926.58, was replaced with 1926.1101. A new standard, 1915.1001, was created for the shipyard industry. Analytical methods used by the OSHA laboratory were added as appendices. The Permissible Exposure Limit (PEL) was reduced by half to 0.1 f/cc TWA. OSHA presumes certain materials in pre-1981 buildings asbestos-containing materials (PACM) until sample verification of the materials asbestos content is made by an AHERA accredited building inspector.
- Public sector employees, such as city, county and/or state government employees and certain school and university employees, who are not already subject to a state OSHA plan, are covered by the EPA Worker Protection Rule (Federal Register: February 25, 1987; 40 CFR 763 Subpart G, Asbestos Abatement Projects; Worker Protection, Final Rule).

3.2.1 AECOM Recommendations – Permits and Notifications

The following regulated asbestos-containing materials were identified during the survey: non-friable black tar-like coating found around the base of penthouse walls and on the floor; beige 12-inch vinyl floor tile and black floor tile mastic found in various locations; and friable TSI mudded fitting insulation found on the steam, chilled and domestic water lines, the roof drain lines, and the emergency generator exhaust stack. The asbestos-containing materials were found to be in good-to-fair condition and can be managed in-place.

Control access to the Category I or Category II non-friable RACM throughout the building insuring that the asbestos containing materials are not disturbed and are not subjected to sanding, grinding, cutting, drilling, and/or abrading.

AECOM makes the following general recommendations for the asbestos-containing materials identified by the survey:

- Develop a plan for managing in-place and controlling access to, disturbance of, and/or damage to the asbestos containing materials identified on the exterior and within the interior of the building.
- Mark asbestos-containing materials with appropriate warning labels where applicable, and abate damaged materials as soon as possible, per 29 CFR 1910.1001 (j) Communication of Hazards to Employees; and IDAPA17.10.004.01 of the Idaho Administration Procedures Act and IGSHS350.05 of the Idaho General Safety and Health Standards.
- Routinely alert all state employees, maintenance and custodial personnel, building occupants, applicable visitors, and outside contractor personnel of the presence of asbestos-containing materials on the exterior, within the interior of the building and/or work areas.

At the time of removal or demolition, implement an asbestos abatement program as required under NESHAP. An asbestos abatement procedure should be developed that will ensure worker protection per 29 CFR 1926.1101 OSHA construction standard and in compliance with EPA regulations regarding friable ACM and Category I and Category II non-friable RACM that may be subjected to sanding, grinding, cutting, drilling, or abrading.

3.2.1.1 Permits and Notifications

Prior to demolition and/or removal of the ACMs, the contractor will need to provide proof satisfactory to the Owner or his representative that all necessary permits have been secured in conjunction with asbestos removal, hauling, and disposal and provide timely notification of such actions, as may be required by federal, state, regional, and local authorities. Send written notification to the Regional Office of the United States Environmental Protection Agency (EPA), as required by 40 CFR Part 61, Subpart M (NESHAPS), 10 working days prior to commencement of the work.

APPENDIX A

1995 ASBESTOS SURVEY & ASSESSMENT – LABORATORY REPORT

MAXIM

BUILDING MATERIAL ANALYSIS ASBESTOS CONTENT

STATE OF IDAHO
DIVISION OF PUBLIC WORKS
LBJ BLDG Disaster Services
#96-921

August 10, 1995
Job No. 95-908
Sheet 3 of 6

Lab No.	Sample Identification	Sample Description	Asbestos Identification and Estimated Quantity	Non-Asbestos Fibrous Material Identification and Estimated Quantity
79872	D5-001-Rm 57-12" tan floor tile	One layer: 1) Cream solid (100%)	None detected	<1% Fibrous Glass 99% Nonfibrous Binder
79873	D5-002-Rm 79-12" tan floor tile	One layer: 1) Cream solid (100%)	None detected	<1% Fibrous Glass 99% Nonfibrous Binder
79874	D5-003-Rm 85-12" tan floor tile & mastic	Three layers: 1) Cream solid (97%) 2) Black mastic (2%) 3) Gold mastic (1%) Composite of Layers:	None detected 6% Chrysotile None detected <1% Chrysotile	100% Nonfibrous Binder <1% Cellulose 2% Fibrous Glass 91% Nonfibrous Binder 4% Fibrous Glass 96% Nonfibrous Binder
79875	D5-004-Rm 62-12" tan floor tile & mastic	Three layers: 1) Cream solid (98%) 2) Black mastic (1%) 3) Gold mastic (1%) Composite of Layers:	None detected 5% Chrysotile None detected <1% Chrysotile	100% Nonfibrous Binder 2% Fibrous Glass 93% Nonfibrous Binder 4% Fibrous Glass 96% Nonfibrous Binder
79876	D5-005-Rm 48-12" tan floor tile & mastic	Three layers: 1) Cream solid (97%) 2) Black mastic (25) 3) Gold mastic (1%) Composite of Layers:	None detected 5% Chrysotile None detected <1% Chrysotile	100% Nonfibrous Binder <1% Cellulose 2% Fibrous Glass 92% Nonfibrous Binder 3% Fibrous Glass 97% Nonfibrous Binder
79877	D5-006-Rm 59-2'x 4' ceiling tile (wormhole)	One layer: 1) Beige fibrous solid (100%)	None detected	10% Cellulose 70% Mineral Wool 20% Nonfibrous Binder
79878	D5-007-Rm 93-2'x 4' ceiling tile (wormhole)	One layer: 1) Beige fibrous solid (100%)	<0.3% Chrysotile	11.5% Cellulose 73.3% Fibrous Glass 15.2% Nonfibrous Binder
79879	D5-008-Rm 48 Hall-ceiling tile (wormhole)	One layer: 1) Beige fibrous solid (100%)	0.5% Chrysotile	7.3% Cellulose 78.3% Fibrous Glass 13.9% Nonfibrous Binder 70% Mineral Wool 22% Nonfibrous Binder
79880	D5-009-Hall outside 55, ceiling tile (wormhole)	One layer: 1) Beige fibrous solid (100%)	None detected	6% Cellulose 75% Mineral Wool 19% Nonfibrous Binder

MAXIM

BUILDING MATERIAL ANALYSIS ASBESTOS CONTENT

STATE OF IDAHO
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LBJ BLDG Disaster Services
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August 10, 1995
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Lab No.	Sample Identification	Sample Description	Asbestos Identification and Estimated Quantity	Non-Asbestos Fibrous Material Identification and Estimated Quantity
79881	D5-010-Reception area, ceiling tile (wormhole)	One layer: 1) Beige fibrous solid (100%)	None detected	12% Cellulose 70% Mineral Wool 18% Nonfibrous Binder
79882	D5-011-Rm 48-2'x4' ceiling tile (crowsfoot)	One layer: 1) Tan fibrous solid (100%)	None detected	20% Cellulose 35% Mineral Wool 18% Perlite 27% Nonfibrous Binder
79883	D5-012-Rm 48-2'x4' ceiling tile (crowsfoot)	One layer: 1) Tan fibrous solid (100%)	None detected	22% Cellulose 35% Mineral Wool 18% Perlite 25% Nonfibrous Binder
79884	D5-013-Rm 49- Ceiling tile (crowsfoot)	One layer: 1) Tan fibrous solid (100%)	None detected	22% Cellulose 40% Mineral Wool 18% Perlite 20% Nonfibrous Binder
79885	D5-014-Hall by room 82, sheetrock & joint compound	Three layers: 1) White crystalline solid (35%) 2) Tan fibrous backing (25%) 3) White chalky solid (40%) Composite of Layers:	0.3% Chrysotile None detected None detected Trace of Chrysotile	0.3% Cellulose 5.0% Fibrous Glass 94.4% Nonfibrous Binder 90% Cellulose 10% Nonfibrous Binder 3% Fibrous Glass 97% Nonfibrous Binder
79886	D5-015-Hall by room 61, sheetrock	Two layers: 1) White chalky fibrous solid (80%) 2) Tan fibrous backing with Paint (20%)	None detected None detected	2% Cellulose 5% Fibrous Glass 93% Nonfibrous Binder 90% Cellulose 10% Nonfibrous Binder and Paint
79887	D5-016-Rm 48, sheetrock & joint compound	Two layers: 1) White chalky fibrous solid (85%) 2) Tan fibrous backing with paint (15%)	None detected None detected	4% Cellulose 5% Fibrous Glass 91% Nonfibrous Binder 90% Cellulose 10% Nonfibrous Binder and paint
79888	D5-017-Southwest office, sheetrock & joint compound	Three layers: 1) White crystalline (45%) 2) Tan fibrous backing (20%) 3) White chalky fibrous solid (35%) Composite of Layers:	0.5% Chrysotile None detected None detected Trace of Chrysotile	0.5% Cellulose 0.8% Fibrous Glass 98.2% Nonfibrous Binder 90% Cellulose 10% Nonfibrous Binder <1% Cellulose 3% Fibrous Glass 96% Nonfibrous Binder

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BUILDING MATERIAL ANALYSIS ASBESTOS CONTENT

STATE OF IDAHO
DIVISION OF PUBLIC WORKS
LEN B. JORDAN BLDG, BOISE ID(96-921)

September 11, 1995
Job No. 95-908
Sheet 3 of 9

Lab No.	Sample Identification	Sample Description	Asbestos Identification and Estimated Quantity	Non-Asbestos Fibrous Material Identification and Estimated Quantity
80752	LBJ-022- 2' x 4' ceiling tile, wormhole pattern	One layer: 1) Light beige fibrous solid (100%)	0.5% Chrysotile*	11% Cellulose 66% Mineral Wool 22.5% Nonfibrous Binder
80753	LBJ-023- 2' x 4' ceiling tile, wormhole pattern	One layer: 1) Light beige fibrous (100%)	0.8% Chrysotile*	12.7% Cellulose 65.5% Mineral Wool 21% Nonfibrous Binder
80754	LBJ-024- 2' x 4' ceiling tile, wormhole pattern	One layer: 1) Light beige fibrous solid (100%)	0.5% Chrysotile*	12% Cellulose 73.7% Mineral Wool 13.8% Nonfibrous Binder
80755	LBJ-025- 2' x 4' ceiling tile, crowsfoot pattern	One layer: 1) Gray fibrous solid (100%)	None detected	25% Cellulose 30% Mineral Wool 20% Perlite 25% Nonfibrous Binder
80756	LBJ-026- 2' x 4' ceiling tile, crowsfoot pattern	One layer: 1) Gray fibrous solid (100%)	None detected	25% Cellulose 30% Mineral Wool 20% Perlite 25% Nonfibrous Binder
80757	LBJ-027- 2' x 4' ceiling tile, crowsfoot pattern	One layer: 1) Gray fibrous solid (100%)	None detected	25% Cellulose 30% Mineral Wool 20% Perlite 25% Nonfibrous Binder
80758	LBJ-028- Prefab sheetrock wall system (smooth)	Two layers: 1) White chalky fibrous solid (80%)	None detected	4% Cellulose 5% Fibrous Glass 91% Nonfibrous Binder
		2) Tan fibrous backing w/ beige coating (20%)	None detected	80% Cellulose 20% Nonfibrous Binder
80759	LBJ-029- Prefab sheetrock wall system (smooth)	Two layers: 1) White chalky fibrous solid (70%)	None detected	5% Cellulose 5% Fibrous Glass 90% Nonfibrous Binder
		2) Tan fibrous backing (30%)	None detected	90% Cellulose 10% Nonfibrous Binder
80760	LBJ-030- Prefab sheetrock wall system (smooth)	Two layers: 1) White chalky fibrous solid (75%)	None detected	5% Cellulose 4% Fibrous Glass 91% Nonfibrous Binder
		2) Tan fibrous backing (25%)	None detected	90% Cellulose 10% Nonfibrous Binder
80761	LBJ-031- Prefab sheetrock wall system (orange peel)	Two layers: 1) White chalky fibrous solid (70%)	None detected	5% Cellulose 6% Fibrous Glass 89% Nonfibrous Binder
		2) Tan fibrous backing w/ beige coating (30%)	None detected	80% Cellulose 20% Nonfibrous Binder

* by point count method

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BUILDING MATERIAL ANALYSIS ASBESTOS CONTENT

STATE OF IDAHO
DIVISION OF PUBLIC WORKS
LEN B. JORDAN BLDG, BOISE ID(96-921)

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Lab No.	Sample Identification	Sample Description	Asbestos Identification and Estimated Quantity	Non-Asbestos Fibrous Material Identification and Estimated Quantity
80762	LBJ-032- Prefab sheetrock wall system (orange peel)	Two layers: 1) White chalky fibrous solid (75%) 2) Tan fibrous backing w/beige coating (25%)	None detected None detected	5% Cellulose 6% Fibrous Glass 89% Nonfibrous Binder 80% Cellulose 20% Nonfibrous Binder
80763	LBJ-033- Prefab sheetrock wall system (orange peel)	Two layers: 1) White chalky fibrous solid (75%) 2) Tan fibrous backing w/ beige coating (25%)	None detected None detected	5% Cellulose 6% Fibrous Glass 89% Nonfibrous Binder 80% Cellulose 20% Nonfibrous Binder
80764	LBJ-034- Prefab sheetrock wall system (burlap finish)	One layer: 1) White fibrous woven mat and yellow/white gummy layer (100%)	None detected	3% Cellulose 20% Synthetic Fibers 77% Nonfibrous Binder
80765	LBJ-035- Prefab sheetrock wall system (burlap finish)	Three layers: 1) White chalky fibrous solid (65%) 2) Tan fibrous backing (23%) 3) White fibrous woven mat w/white coating (12%)	None detected None detected None detected	2% Cellulose 5% Fibrous Glass 93% Nonfibrous Binder 90% Cellulose 10% Nonfibrous Binder 2% Cellulose 35% Synthetic Fibers 63% Nonfibrous Binder
80766	LBJ-036- Prefab sheetrock wall system (burlap finish)	Three layers: 1) White chalky fibrous solid (60%) 2) Tan fibrous backing (25%) 3) White fibrous woven mat w/white coating (15%)	None detected None detected None detected	2% Cellulose 6% Fibrous Glass 92% Nonfibrous Binder 90% Cellulose 10% Nonfibrous Binder 1% Cellulose 35% Synthetic Fibers 64% Nonfibrous Binder
80767	LBJ-037- Vinyl wall covering (canvas finish)	One layer: 1) White fibrous woven mat w/gray coating (100%)	None detected	30% Cellulose <1% Fibrous Glass 69% Nonfibrous Binder
80768	LBJ-038- Vinyl wall covering (canvas finish)	One layer: 1) White fibrous woven mat w/cream & gray coatings (100%)	None detected	30% Cellulose <1% Fibrous Glass 69% Nonfibrous Binder
80769	LBJ-039- Vinyl wall covering (canvas finish)	One layer: 1) White fibrous woven mat w/peach coating (100%)	None detected	1% Cellulose 45% Synthetic Fibers 54% Nonfibrous Binder

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BUILDING MATERIAL ANALYSIS ASBESTOS CONTENT

STATE OF IDAHO
DIVISION OF PUBLIC WORKS
LEN B. JORDAN BLDG, BOISE ID(96-921)

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Lab No.	Sample Identification	Sample Description	Asbestos Identification and Estimated Quantity	Non-Asbestos Fibrous Material Identification and Estimated Quantity
80770	LBJ-040- 12" floor tile w/mastic (Beige w/flecks of brown)	Three layers: 1) Gold mastic (<1%) 2) Cream solid (98%) 3) Black mastic (<1%) Composite of Layers:	None detected None detected 3% Chrysotile <1% Chrysotile	100% Nonfibrous Binder 100% Nonfibrous Binder <1% Cellulose 96% Nonfibrous Binder
80771	LBJ-041- 12" floor tile w/mastic (Beige w/flecks of brown)	Two layers: 1) Cream w/gray solid (98%) 2) Black mastic (2%) Composite of Layers:	None detected 3% Chrysotile <1% Chrysotile	100% Nonfibrous Binder 1% Cellulose 96% Nonfibrous Binder
80772	LBJ-042- 12" floor tile w/mastic (Beige w/flecks of brown)	Four layers: 1) Yellow foamy layer (3%) 2) Gold mastic (1%) 3) Cream solid (95%) 4) Black mastic (<1%) Composite of Layers:	None detected None detected None detected 4% Chrysotile <1% Chrysotile	100% Nonfibrous Binder 100% Nonfibrous Binder 100% Nonfibrous Binder <1% Cellulose 95% Nonfibrous Binder
80773	LBJ-043- Ceramic tile & grout	Two layers: 1) White solid (60%) 2) Gray granular solid (40%)	None detected None detected	100% Nonfibrous Binder 100% Nonfibrous Binder & Mineral Aggregate
80774	LBJ-044- Ceramic tile & grout	Two layers: 1) White solid (70%) 2) Gray granular solid (30%)	None detected None detected	100% Nonfibrous Binder 100% Nonfibrous Binder & Mineral Aggregate
80775	LBJ-045- Ceramic tile & grout	Two layers: 1) White solid (45%) 2) Gray granular solid (55%)	None detected None detected	100% Nonfibrous Binder 100% Nonfibrous Binder & Mineral Aggregate
80776	LBJ-046- Exterior duct insulation	Two layers: 1) Tan/silver backing (25%) 2) Yellow fibrous layer (75%)	None detected None detected	25% Cellulose 6% Fibrous Glass 69% Nonfibrous Binder 95% Fibrous Glass 5% Nonfibrous Binder
80777	LBJ-047- Exterior duct insulation	Two layers: 1) Tan/silver backing (75%) 2) Yellow fibrous layer (25%)	None detected None detected	35% Cellulose 5% Fibrous Glass 60% Nonfibrous Binder 95% Fibrous Glass 5% Nonfibrous Binder

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BUILDING MATERIAL ANALYSIS ASBESTOS CONTENT

STATE OF IDAHO
DIVISION OF PUBLIC WORKS
LEW. S. JORDAN BLDG, BOISE ID(96-921)

September 11, 1995
Job No. 95-908
Sheet 6 of 9

Lab No.	Sample Identification	Sample Description	Asbestos Identification and Estimated Quantity	Non-Asbestos Fibrous Material Identification and Estimated Quantity
80776	LBJ-048- Exterior duct	Two layers: 1) Tan/silver backing (45%) 2) Yellow fibrous layer (55%)	None detected None detected	35% Cellulose 5% Fibrous Glass 60% Nonfibrous Binder 95% Fibrous Glass 5% Nonfibrous Binder
80779	LBJ-049 -Interior duct (insulation) liner	One layer: 1) Gray/tan fibrous mass (100%)	None detected	<1% Cellulose 95% Fibrous Glass 4% Nonfibrous Binder
80780	LBJ-050 - Interior duct (insulation) liner	One layer: 1) Tan/gray fibrous mass (100%)	None detected	95% Fibrous Glass 5% Nonfibrous Binder
80781	LBJ-051- Interior duct (insulation) liner	One layer: 1) Tan/brown fibrous mass (100%)	None detected	95% Fibrous Glass 5% Nonfibrous Binder
80782	LBJ-052- Yellow sheet vinyl cafeteria	Two layers: 1) Beige/white solid layer (65%) 2) Tan fibrous backing (35%)	None detected None detected	100% Nonfibrous Binder 57% Cellulose 3% Fibrous Glass 40% Nonfibrous Binder
80783	LBJ-053- Yellow sheet vinyl cafeteria	Two layers: 1) Beige/white solid layer (75%) 2) Tan fibrous backing (25%)	None detected None detected	100% Nonfibrous Binder 60% Cellulose 5% Fibrous Glass 35% Nonfibrous Binder
80784	LBJ-054- Yellow sheet vinyl cafeteria	Two layers: 1) Beige/white solid layer (75%) 2) Tan fibrous backing (25%)	None detected None detected	100% Nonfibrous Binder 60% Cellulose 4% Fibrous Glass 36% Nonfibrous Binder
80785	LBJ-055- 12" tan floor tile w/mastic	Two layers: 1) Tan solid (99%) 2) Black mastic (<1%) Composite of Layers:	None detected 5% Chrysotile <1% Chrysotile	100% Nonfibrous Binder 1% Cellulose 94% Nonfibrous Binder
80786	LBJ--056- 12" tan floor tile w/mastic	Two layers: 1) Tan solid (98%) 2) Black mastic (2%) Composite of Layers:	None detected 6% Chrysotile <1% Chrysotile	100% Nonfibrous Binder 1% Cellulose 93% Nonfibrous Binder
80787	LBJ-057- 12" tan floor tile w/mastic	Two layers: 1) Tan solid (99%) 2) Black mastic (<1%) Composite of Layers:	None detected 6% Chrysotile <1% Chrysotile	100% Nonfibrous Binder 1% Cellulose 93% Nonfibrous Binder

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BUILDING MATERIAL ANALYSIS
ASBESTOS CONTENT

STATE OF IDAHO
DIVISION OF PUBLIC WORKS
LEN B. JORDAN BLDG, BOISE ID(96-921)

September 11, 1995
Job No. 95-908
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Lab No.	Sample Identification	Sample Description	Asbestos Identification and Estimated Quantity	Non-Asbestos Fibrous Material Identification and Estimated Quantity
80788	LBJ-058- Ceiling & wall plaster (smooth)	One layer: 1) Cream granular solid (100%)	None detected	<1% Cellulose <1% Fibrous Glass 98% Nonfibrous Binder & Mineral Aggregate
80789	LBJ-059- Ceiling & wall plaster (smooth)	Two layers: 1) White chalky solid (20%) 2) Cream granular solid (80%)	None detected None detected	100% Nonfibrous Binder & Mineral Aggregate <1% Cellulose 99% Nonfibrous Binder
80790	LBJ-060- Ceiling & wall plaster (smooth)	One layer: 1) Cream granular solid (100%)	None detected	<1% Cellulose 99% Nonfibrous Binder & Mineral Aggregate
80791	LBJ-061- Stucco/plaster sand finish	One layer: 1) Gray granular solid (100%)	None detected	100% Nonfibrous Binder & Mineral Aggregate
80792	LBJ-062- Stucco/plaster sand finish	One layer: 1) Gray granular solid (100%)	None detected	100% Nonfibrous Binder & Mineral Aggregate
80793	LBJ-063- Stucco/plaster sand finish	One layer: 1) Gray granular solid (100%)	None detected	100% Nonfibrous Binder & Mineral Aggregate
80794	LBJ-064- Concrete block & mortar	One layer: 1) Gray granular solid (100%)	None detected	<1% Cellulose 99% Nonfibrous Binder & Mineral Aggregate
80795	LBJ-065- Concrete block & mortar	One layer: 1) Gray granular solid (100%)	None detected	<1% Cellulose 99% Nonfibrous Binder
80796	LBJ-066- Concrete block & mortar	One layer: 1) Gray granular solid (100%)	None detected	<1% Cellulose 99% Nonfibrous Binder
80797	LBJ-067- Sheetrock w/ joint compound	Three layers: 1) White crystalline solid (15%) 2) Tan fibrous backing (25%) 3) White chalky solid (60%)	Trace of Chrysotile None detected None detected	<1% Cellulose 99% Nonfibrous Binder 90% Cellulose 10% Nonfibrous Binder <1% Cellulose 5% Fibrous Glass 94% Nonfibrous Binder

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BUILDING MATERIAL ANALYSIS ASBESTOS CONTENT

STATE OF IDAHO
DIVISION OF PUBLIC WORKS
LEN B. JORDAN BLDG, BOISE ID(96-921)

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Sheet 8 of 9

Lab No.	Sample Identification	Sample Description	Asbestos Identification and Estimated Quantity	Non-Asbestos Fibrous Material Identification and Estimated Quantity
80798	LBJ-068- Sheetrock w/ joint compound	Five layers: 1) White crystalline solid (12%) 2) White fibrous backing (10%) 3) White crystalline solid (12%) 4) Tan fibrous backing (11%) 5) White chalky solid (55%)	None detected None detected None detected None detected None detected	<1% Cellulose 99% Nonfibrous Binder 90% Cellulose 10% Nonfibrous Binder <1% Cellulose 99% Nonfibrous Binder 90% Cellulose 10% Nonfibrous Binder <1% Cellulose 5% Fibrous Glass 94% Nonfibrous Binder
80799	LBJ-069- Sheetrock w/ joint compound	Three layers: 1) White crystalline solid (30%) 2) Tan fibrous backing (30%) 3) White chalky solid (40%)	None detected None detected None detected	<1% Cellulose 99% Nonfibrous Binder 90% Cellulose 10% Nonfibrous Binder <1% Cellulose 5% Fibrous Glass 94% Nonfibrous Binder
80800	LBJ-070- Terazzo flooring	One layer: 1) White granular solid (100%)	None detected	100% Nonfibrous Binder
80801	LBJ-071- Terazzo flooring	One layer: 1) White granular solid (100%)	None detected	100% Nonfibrous Binder
80802	LBJ-072- Terazzo flooring	One layer: 1) White granular solid (100%)	None detected	100% Nonfibrous Binder
80803	LBJ-073- Gray fibrous floor patch	One layer: 1) Gray granular fibrous mass (100%)	None detected	10% Cellulose 25% Fibrous Glass 65% Nonfibrous Binder
80804	LBJ-074- Gray fibrous floor patch	One layer: 1) Gray fibrous granular mass (100%)	None detected	10% Cellulose 25% Fibrous Glass 65% Nonfibrous Binder
80805	LBJ-075- Gray fibrous floor patch	One layer: 1) Gray fibrous granular mass (100%)	None detected	10% Cellulose 30% Fibrous Glass 60% Nonfibrous Binder
80806	LBJ-076- Cove base w/mastic (gray)	Six layers: 1) Gray solid (5%) 2) White crystalline solid (10%) 3) Brown mastic (40%) 4) Clear/white mastic (40%) 5) Tan fibrous backing (3%) 6) White chalky solid (2%)	None detected <0.3% Chrysotile* None detected None detected None detected None detected	100% Nonfibrous Binder 1% Cellulose 1.5% Fibrous Glass 97.5% Nonfibrous Binder 100% Nonfibrous Binder 100% Nonfibrous Binder 90% Cellulose 10% Nonfibrous Binder 3% Cellulose 5% Fibrous Glass 92% Nonfibrous Binder
		Composite of Layers:	<0.3% Chrysotile	

* by point count method

Huntingdon

BUILDING MATERIAL ANALYSIS
ASBESTOS CONTENT

STATE OF IDAHO
DIVISION OF PUBLIC WORKS
LEN B. JORDAN BLDG, BOISE ID(96-921)

September 11, 1995
Job No. 95-908
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Lab No.	Sample Identification	Sample Description	Asbestos Identification and Estimated Quantity	Non-Asbestos Fibrous Material Identification and Estimated Quantity
80807	LBJ-077- Cove base w/mastic (black)	Two layers: 1) Black solid (90%) 2) Brown mastic (10%)	None detected None detected	100% Nonfibrous Binder <1% Cellulose 99% Nonfibrous Binder
80808	LBJ-078- Cove base w/mastic (black)	Two layers: 1) Black solid (98%) 2) Brown mastic (2%)	None detected None detected	100% Nonfibrous Binder <1% Cellulose 99% Nonfibrous Binder
80809	LBJ-079- Sink under coating (black)	One layer: 1) Small black particles (100%)	5% Chrysotile	<1% Cellulose 94% Nonfibrous Binder
80810	LBJ-080- Vinyl stair tread	One layer: 1) Black solid (100%)	None detected	100% Nonfibrous Binder
80811	LBJ-081- Vinyl stair tread	One layer: 1) Black solid (100%)	None detected	100% Nonfibrous Binder
80812	LBJ-082- Vinyl stair tread	One layer: 1) Black solid (100%)	None detected	100% Nonfibrous Binder
80813	LBJ-083- Fiberglass pipe insulation	Two layers: 1) Silver/tan backing (15%) 2) Yellow fibrous mat (85%)	None detected None detected	45% Cellulose 3% Fibrous Glass 52% Nonfibrous Binder 95% Fibrous Glass 5% Nonfibrous Binder
80814	LBJ-084- Fiberglass pipe insulation	Three layers: 1) White/silver backing w/ brown coating (35%) 2) Black gummy layer (35%) 3) Yellow fibrous mat (30%)	None detected None detected None detected	35% Cellulose 4% Fibrous Glass 61% Nonfibrous Binder 20% Fibrous Glass 80% Nonfibrous Binder 95% Fibrous Glass 5% Nonfibrous Binder
80815	LBJ-085- Fiberglass pipe insulation	Two layers: 1) White/silver backing w/brown coating (20%) 2) Yellow fibrous mat (80%)	None detected None detected	40% Cellulose 10% Fibrous Glass 50% Nonfibrous Binder 95% Fibrous Glass 5% Nonfibrous Binder



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