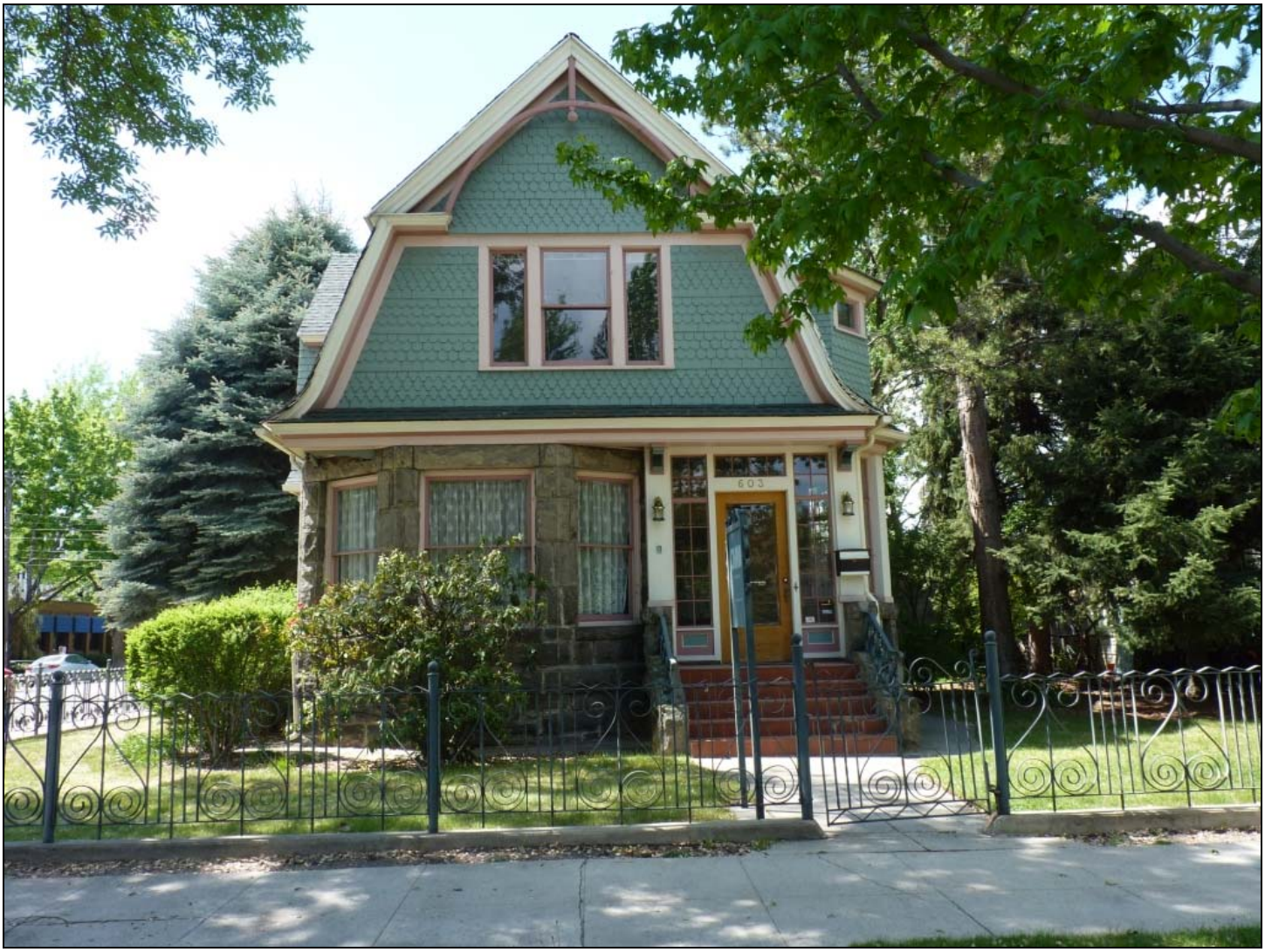
DPW PROJECT 13926
603 WEST FRANKLIN STREET
DEPARTMENT OF ADMINISTRATION
BOISE, IDAHO

ASBESTOS-CONTAINING BUILDING MATERIAL AND LEAD PAINT SURVEY AND ASSESSMENT REPORT



MAY 2013

URS

ASBESTOS-CONTAINING BUILDING MATERIAL
AND LEAD PAINT
SURVEY AND ASSESSMENT REPORT

DPW PROJECT #13926
603 WEST FRANKLIN STREET
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
ID11.T046.001

MAY 2013

May 22, 2013

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 #13926
603 WEST FRANKLIN STREET
DEPARTMENT OF ADMINISTRATION
BOISE, IDAHO

Dear Josh:

Enclosed are five hard copies and one PDF copy of the Asbestos & Lead Paint Survey Report for the house located at 603 West Franklin Street in Boise, Idaho. The house with detached garage is in fair-to-good repair, and is scheduled for relocation (moved off the property) or demolition. Regulated asbestos-containing materials (ACM) were identified during the site inspection. All of the ACM, with exception of the window caulking, were removed and disposed of on May 13, 2013 by Abatement Pro. However, lead-containing paint that was identified is still present throughout the house. The regulated asbestos-containing materials and lead paint were found to be in fair-to-good condition during the survey; however, these materials, if not managed properly, may become damaged and friable which poses a potential health threat to the building occupants, state employees, and construction workers. The non-regulated asbestos-containing materials can be removed and disposed of as needed as (non-hazardous) construction debris at any approved landfill as part of the building's renovation. In addition and as stated within the report, the building components coated with lead paint may be disposed of along with the rest of the renovation debris.

If you should have any questions, please call me at 386-5854.

Sincerely,

Tim A. Bird
Asbestos Project Manager

Enclosure as Stated

cc: File ID11.T046.001

ASBESTOS SURVEY AND ASBESTOS REPORT

TABLE OF CONTENTS

1.0 INTRODUCTION

1.1 Background and Scope

The house, located at 603 West Franklin Street in Boise, Idaho, is a two-story rock, concrete and wood structure. The house is currently unoccupied and is scheduled to be moved off the property or demolished to make way for a new parking garage. The detached garage is scheduled to be demolished.

On April 29, 2013, Tim Bird of the URS Corporation conducted an inspection and survey for asbestos-containing materials (ACM) and lead paint within the house and detached garage located at 603 West Franklin Street in Boise, Idaho. This inspection and survey were conducted at the request of the Idaho Department of Public Works (DPW), represented by Josh Lewis, Asbestos Program Coordinator, and included inspection of the building to facilitate demolition of the garage and relocation of the house.

URS was authorized to survey and collect samples of all accessible suspect building materials and 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. In addition, Mr. Lewis requested that URS collect a limited number of composite lead paint chip samples (lead-containing coatings) from 603 West Franklin Street and submit them for analysis as part of the asbestos survey. The lead paint sample analysis findings have been included as part of this report.

1.2 Summary of Findings

As previously mentioned, the building has undergone extensive renovation as evidenced by new carpeting and new non-asbestos 2-foot by 4-foot suspended ceiling tile ceilings, sheetrock walls, and ceiling throughout various locations within the building. In addition, the old steam heat system has been replaced with a new forced-air heating system. Both regulated asbestos-containing materials and lead-containing coatings were found during the site inspection. The house located at 603 West Franklin Street was occupied at the time of survey and is scheduled for relocation or demolition.

Asbestos

Regulated asbestos-containing caulking, vinyl asbestos floor tile, asbestos-containing thermal system insulation (TSI) pipe run and mudded fitting material, and asbestos-containing paper duct tape were identified during the site investigation.

On May 13 and 14, 2013 Abatement Pro, licensed asbestos abatement contractor removed all of the friable asbestos-containing TSI materials, paper duct tape, and the non-friable vinyl asbestos floor tiles (VAT) found throughout the building. The materials were removed and disposed of to facilitate relocation or demolition of the house. The non-friable exterior window caulking was left in place due to the negligible quantity (less than 5 square feet) of material found. The caulking was used to seal the seam between the rock exterior and the wood window frames on the lower section of the house.

The remaining building materials sampled during the site inspection were analyzed for asbestos content and were found not to contain asbestos or were non-detect. Refer to the laboratory report located in Section 2.1.

All samples 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 603-A-01; the first three (3) numbers designate the site "603 West Franklin Street," the "A" denotes a suspect asbestos-containing materials (ACM), and the final two digits represent a sequential number of samples taken within the house and detached garage. See Section 2.0, Survey Results, for a description and location of all sampled materials and photographic documentation.

The non-friable window caulking was found to be in good-to-fair condition; however, this material, if not managed properly, may become damaged which poses a potential health threat to the building occupants and contractor employees. The ACM can be managed in-place until it has been removed.

Lead Coatings

In addition to the asbestos-containing materials listed above, lead-containing coatings were found on the exterior finishes and trim (composite paint samples) and were also detected within the coatings (composite paint samples) applied to many of the interior surfaces (i.e., walls, ceilings, door and window frames, and millwork found throughout the building).

The lead paint chip (composite) samples were collected and analyzed in accordance with EPA and OSHA guidelines. Samples were taken at various locations representative of coatings and conditions identified throughout each segment of the building. The materials were found to be in fair-to-good condition and can be managed in-place.

The four (4) of the six (6) composite samples of the suspect lead-containing paint found on the exterior and interior surface of the house contained concentrations of lead ranging from 10 - 19% lead by weight, which exceeds the Environmental Protection Agency (EPA)/U.S. Department of Housing and Urban Development (HUD) guideline of 0.5% by weight.

The following (composite) sampled coatings were found to contain lead at concentrations above EPA/HUD guidelines of 0.5% by weight for target housing and child-occupied facilities:

- Exterior pink and mauve paint applied to wood windows, trim and siding.
- Exterior teal and grey paint applied to wood trim and siding.
- Exterior off-white paint applied to wood/metal trim and soffit.
- Interior white paint applied to plaster/wood walls, trim and millwork.

Due to the above mentioned lead-containing paint; if the building was to be used as target housing or a child-occupied facility, EPA regulations would apply to the management of this material (EPA Renovation, Repair and Painting Rule). If the building was to be used as federally-owned or assisted target housing, HUD regulations would apply to the management of this material (Lead Safe Housing Rule).

Two composite samples of interior coatings were found to contain lead at concentrations of 0.007% and 0.22%, which are levels below the EPA/HUD guidelines of 0.5% by weight but still fall within the Occupational Safety and Health Administration (OSHA) regulations for lead containing material under OSHA's Construction Standard. These materials, as well as the coating listed above, if not managed properly, may become damaged, which would pose a potential health threat to building occupants, employees, and the environment.

The following sampled coatings were found to contain lead at concentrations below EPA/HUD guidelines of 0.5% by weight. However, these materials should be handled appropriately.

- Pink (composite) paint over interior walls, plaster and wallpaper.
- Teal/Green (composite) paint applied to interior walls, plaster and wallpaper.

All samples of suspect lead paint presented in this report have been analyzed by flame AAS (ASTM D3335-85A) "Standard Method to Test for Low Concentrations of Lead in Paint by Atomic Absorption Spectrophotometry." If any of the samples taken of a coating material were positive for lead at greater than the regulatory limit of 0.5 percent (0.5% by weight EPA/HUD guidelines), the material in its entirety was considered to be lead-containing paint.

Each sample listed within the report is identified by a unique alpha/numeric sample designation, such as 603-L-01. The first three (3) letters designate the site "603 West Franklin Street," the "L" denotes a suspect lead coating, and the final two digits represent a sequential number of samples taken within the building. See Section 2.0, Survey Results, for a complete description and location of all sampled materials and photographic documentation.

While the lead-containing paints were found in stable condition, if not managed properly, the lead-containing paint may become damaged and friable (airborne), which would pose a potential health threat to the building occupants and the environment. URS recommends that the owner alert all applicable maintenance and custodial personnel, applicable building occupants and visitors, and outside contractor personnel of the presence of lead-containing paint within the building and/or work areas.

When and if the building is demolished, the lead-containing exterior and interior painted building materials may be disposed of as non-hazardous waste with the rest of the construction debris at a state-approved landfill (refer to Appendix C – Lead Paint Waste Stream Characterization for all Lead Paint found in Stable Condition). See Section 2.0, Survey Results, for a description and location of all sampled materials and photographic documentation.

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 our limited asbestos and lead paint

survey, and interpretation of current regulations pertaining to asbestos and lead 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 and lead paint.

2.0 SURVEY RESULTS

2.1 Asbestos Laboratory Report/Chain of Custody

MATERIALS TESTING & INSPECTION

PAGE # 1 OF 4
DATE MAY 6, 2013
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o Environmental Services o Geotechnical Engineering o Construction Materials Testing o Special Inspections

JOSH LEWIS
STATE OF IDAHO DIV. OF PUBLIC WORKS
502 NORTH 4TH STREET
BOISE, IDAHO 83720

MTI FILE #: B130007e

Project: 603 West Franklin Street
DPW Number: 13902
Date Received: April 30, 2013
Date Reported: May 3, 2013

Asbestos Bulk Sample Analysis Report

SAMPLE NUMBER	LAB NUMBER	SAMPLE TYPE, LOCATION, and DESCRIPTION	% ASBESTOS FIBERS	% NON-ASBESTOS FIBERS	% NON-FIBROUS MATERIALS	COMMENTS
603-A-01	B109767	Asphalt shingle roofing - black bituminous fibrous		25% Glass	75% Other	NAD
603-A-02	B109768	Asphalt shingle roofing - black bituminous fibrous		25% Glass	75% Other	NAD
603-A-03	B109769	Asphalt shingle roofing - black bituminous fibrous		25% Glass	75% Other	NAD
603-A-04	B109770	Mortar between rock exterior - grey cementitious granular			100% Other	NAD
603-A-05	B109771	Mortar between rock exterior - grey cementitious granular			100% Other	NAD
603-A-06	B109772	Mortar between rock exterior - grey cementitious granular			100% Other	NAD
603-A-07	B109773	Window glazing - white semi compact powdery			100% Other	NAD
603-A-08	B109774	Window glazing - white semi compact powdery			100% Other	NAD
603-A-09	B109775	Window glazing - white semi compact powdery			100% Other	NAD
603-A-10	B109776	**Window caulking** - tan compact with fibers	3% Chrysotile		97% Other	ACM
603-A-11	B109777	**Window caulking** - tan compact with fibers	3% Chrysotile			ACM
603-A-12	B109778	**Window caulking** - tan compact with fibers	3% Chrysotile			ACM
603-A-13	B109779	Stucco finish exterior - grey cementitious granular			100% Other	NAD
603-A-14	B109780	Stucco finish exterior - grey cementitious granular			100% Other	NAD
603-A-15	B109781	Stucco finish exterior - grey cementitious granular			100% Other	NAD
603-A-16	B109782	Construction paper - black bituminous fibrous		70% Cellulose	30% Other	NAD
603-A-17	B109783	Construction paper - black bituminous fibrous		70% Cellulose	30% Other	NAD
603-A-18	B109784	Construction paper - black bituminous fibrous		70% Cellulose	30% Other	NAD

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E-Mail mti@mti-id.com www.mti-id.com

Asbestos Bulk Sample Analysis Report

SAMPLE NUMBER	LAB NUMBER	SAMPLE TYPE, LOCATION, and DESCRIPTION	% ASBESTOS FIBERS	% NON-ASBESTOS FIBERS	% NON-FIBROUS MATERIALS	COMMENTS
603-A-19	B109785	Blown-in insulation, attic - brown loose fibrous		80% Cellulose 20% Synthetic		NAD
603-A-20	B109786	Blown-in insulation, attic - brown loose fibrous		80% Cellulose 20% Synthetic		NAD
603-A-21	B109787	Blown-in insulation, attic - brown loose fibrous		80% Cellulose 20% Synthetic		NAD
603-A-22	B109788	Batt insulation - tan loose fibrous		100% Cellulose		NAD
603-A-23	B109789	Batt insulation - tan loose fibrous		100% Cellulose		NAD
603-A-24	B109790	Batt insulation - tan loose fibrous		100% Cellulose		NAD
603-A-25	B109791	Brick & Mortar - red/white cementitious granular			100% Other	NAD
603-A-26	B109792	Brick & Mortar - red/white cementitious granular			100% Other	NAD
603-A-27	B109793	Brick & Mortar - red/white cementitious granular			100% Other	NAD
603-A-28	B109794	Plaster finish interior - cream cementitious granular			100% Other	NAD
603-A-29	B109795	Plaster finish interior - cream cementitious granular			100% Other	NAD
603-A-30	B109796	Plaster finish interior - cream cementitious granular			100% Other	NAD
603-A-31	B109797	12x16 ceiling tiles - tan semi compact loose fibrous		90% Cellulose	10% Other	NAD
603-A-32	B109798	12x16 ceiling tiles - tan semi compact loose fibrous		90% Cellulose	10% Other	NAD
603-A-33	B109799	12x16 ceiling tiles - tan semi compact loose fibrous		90% Cellulose	10% Other	NAD
603-A-34	B109800	2x2 ceiling tiles - tan semi compact fibrous		10% Cellulose 80% Glass	10% Other	NAD
603-A-35	B109801	2x2 ceiling tiles - tan semi compact fibrous		10% Cellulose 80% Glass	10% Other	NAD
603-A-36	B109802	2x2 ceiling tiles - tan semi compact fibrous		10% Cellulose 80% Glass	10% Other	NAD
603-A-37	B109803	Drywall/joint compound - white semi compact powdery fibrous		40% Cellulose	60% Other	NAD
603-A-38	B109804	Drywall/joint compound - white semi compact powdery fibrous		60% Cellulose	40% Other	NAD
603-A-39	B109805	Drywall/joint compound - white semi compact powdery fibrous		60% Cellulose	40% Other	NAD
603-A-40	B109806	**9-inch floor tile** and black mastic - tan hard compact granular with fibers	**5% Chrysotile**	20% Cellulose	2% Mastic 73% Other	**AFT @ 5%**; mastic NAD

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E-Mail mti@mti-id.com www.mti-id.com

Asbestos Bulk Sample Analysis Report

SAMPLE NUMBER	LAB NUMBER	SAMPLE TYPE, LOCATION, and DESCRIPTION	% ASBESTOS FIBERS	% NON-ASBESTOS FIBERS	% NON-FIBROUS MATERIALS	COMMENTS
603-A-41	B109807	**9-inch floor tile** and black mastic - tan hard compact granular with fibers	5% Chrysotile	20% Cellulose	2% Mastic 73% Other	AFT @ 5%; mastic NAD
603-A-42	B109808	**9-inch floor tile** and black mastic - tan hard compact granular with fibers	5% Chrysotile	20% Cellulose	2% Mastic 73% Other	AFT @ 5%; mastic NAD
603-A-43	B109809	Sheet vinyl - green compact layered fibrous		75% Cellulose	2% Mastic 23% Other	NAD
603-A-44	B109810	Sheet vinyl - green compact layered fibrous		75% Cellulose	2% Mastic 23% Other	NAD
603-A-45	B109811	Sheet vinyl - green compact layered fibrous		75% Cellulose	2% Mastic 23% Other	NAD
603-A-46	B109812	**TSI pipe run** - white loose fibrous	90% Chrysotile		10% Other	ACM
603-A-47	B109813	**TSI mudded fitting** - white semi compact powdery fibrous	40% Chrysotile 2% Crocidolite		58% Other	ACM
603-A-48	B109814	**Paper duct tape** - white compact fibrous	65% Chrysotile	35% Cellulose		ACM
603-A-49	B109815	Garage roof, top layer - black bituminous fibrous granular		30% Cellulose	70% Other	NAD
603-A-50	B109816	Garage roof, 2nd layer - black bituminous fibrous granular		40% Cellulose	60% Other	NAD
603-A-51	B109817	Garage roof, bottom layer - black bituminous fibrous granular		40% Cellulose	60% Other	NAD
603-A-52	B109818	Brick & Mortar - cream cementitious granular			100% Other	NAD
603-A-53	B109819	Brick & Mortar - cream cementitious granular			100% Other	NAD
603-A-54	B109820	Brick & Mortar - cream cementitious granular			100% Other	NAD
603-A-55	B109821	Plaster garage ceiling - cream cementitious granular			100% Other	NAD
603-A-56	B109822	Plaster garage ceiling - cream cementitious granular			100% Other	NAD
603-A-57	B109823	Plaster garage ceiling - cream cementitious granular			100% Other	NAD

Individual layers with ACM are reported in the comment section of the report. Total percent asbestos fibers applies to all layers in the sample as submitted to the laboratory.

Key To Comments

NAD - No Asbestos Detected
ACM - **Asbestos Containing Material**
AFC - Asbestos Found As Contaminant
AFT - Asbestos Found in **Tile**
PP-NAR - Presume Positive-No Analysis Required
TRACE - Detectable but not quantifiable
AFB - Asbestos Found in **Backing**
AFM - Asbestos Found in **Mastic**
AFT&M - Asbestos Found in **Tile And Mastic**
IS - Insufficient Sample -percentages may be inaccurate

Sampled by: Client

Analyzed by: Laurie Kuther
Chief Microscopist

Reviewed by: Jennifer Babione
Environmental Services Asst. Manager

Sample components are identified using polarized light microscopy (PLM) coupled with dispersion staining methods as determined by visual estimation. Small asbestos fibers may not be detected by PLM due to the resolution limitations of the optical microscope. Detecting asbestos in non-friable organically bound materials is not consistently reliable using PLM analysis. This test report relates only to the items tested in the sample as submitted to the laboratory.

Analysis method: Polarized Light Microscopy (PLM) by EPA/600/R-93/116 with Central Stop Dispersion by NIOSH 9002
American Industrial Hygiene Association (AIHA) Performance Analytical Testing (PAT) Laboratory Number 101571

MATERIALS TESTING & INSPECTION

❑ Environmental Services ❑ Geotechnical Engineering ❑ Construction Materials Testing ❑ Special Inspections

JOSH LEWIS
STATE OF IDAHO DIV. OF PUBLIC WORKS
502 NORTH 4TH STREET
BOISE, IDAHO 83720

MTI FILE #: B130007e

Project: 603 West Franklin Street
DPW Number: 13902
Date Received: May 13, 2013
Date Reported: May 14, 2013

Asbestos Bulk Sample Analysis Report

SAMPLE NUMBER	LAB NUMBER	SAMPLE TYPE, LOCATION, and DESCRIPTION	% ASBESTOS FIBERS	% NON-ASBESTOS FIBERS	% NON-FIBROUS MATERIALS	COMMENTS
603-A-58	B110040	Linoleum beneath carpet – brown compact layered fibrous		75% Cellulose	25% Other	NAD
603-A-59	B110041	Linoleum beneath carpet – brown compact layered fibrous		75% Cellulose	25% Other	NAD
603-A-60	B110042	Linoleum beneath carpet – brown compact layered fibrous		75% Cellulose	25% Other	NAD

Individual layers with ACM are reported in the comment section of the report. Total percent asbestos fibers applies to all layers in the sample as submitted to the laboratory.

Key To Comments

NAD - No Asbestos Detected
ACM - Asbestos Containing Material
AFC - Asbestos Found As Contaminant
AFT - Asbestos Found in **Tile**
PP-NAR - Presume Positive-No Analysis Required
TRACE - Detectable but not quantifiable
AFB - Asbestos Found in **Backing**
AFM - Asbestos Found in **Mastic**
AFT&M - Asbestos Found in **Tile And Mastic**
IS - Insufficient Sample -percentages may be inaccurate

Sampled by: Tim Bird, URS

Analyzed by: Laurie Kuther
Chief Microscopist

Reviewed by: Jennifer Babione
Environmental Services Asst. Manager

Sample components are identified using polarized light microscopy (PLM) coupled with dispersion staining methods as determined by visual estimation. Small asbestos fibers may not be detected by PLM due to the resolution limitations of the optical microscope. Detecting asbestos in non-friable organically bound materials is not consistently reliable using PLM analysis. This test report relates only to the items tested in the sample as submitted to the laboratory.
Analysis method: Polarized Light Microscopy (PLM) by EPA/600/R-93/116 with Central Stop Dispersion by NIOSH 9002
American Industrial Hygiene Association (AIHA) Performance Analytical Testing (PAT) Laboratory Number 101571

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INDUSTRIAL HYGIENE RESOURCES

Certificate of Completion

Tim Bird

Has attended and successfully completed the
Annual Refresher Training Course in
4 Hours AHERA Inspector
In accordance with Title II of TSCA
40 CFR Part 763, Appendix C to Subpart E

Course Date: 2/8/2013
Expiration Date: 2/8/2014
Certificate Number: 4788-01

Dayle Lundy

Instructor: Dayle Lundy

Industrial Hygiene Resources – 8312 W. Northview, Suite 100 – Boise, Idaho 83704
Tel: (208) 323-8278 Fax: (208) 323-0783

2.2 Photo Log of Materials Containing 1% or Less Asbestos

1. View of non-asbestos asphalt shingled roofing found on the house. Also shows non-asbestos mortar found between the rock exterior finish.

2. View of the non-regulated asbestos-containing window glazing found on the exterior wood frame windows located around the house and garage.

3. View of non-asbestos (white) 12-inch ceiling tiles found above the suspended ceiling in the upper level. Also shows the blown-in insulation found within the attic space of the house.

4. View of the non-asbestos batt insulation found in the attic spaces of the house.

5. View of the non-asbestos brick/mortar and drywall finishes found within the basement of the house.

6. Views of the non-asbestos 2x2-foot and 12-inch by 16-inch ceiling tile and plaster ceiling finish found throughout the house.

7. View of the non-asbestos sheet vinyl flooring found inside the rear porch closet.

8. View of the detached garage showing the non-asbestos brick and mortar construction.

9. View of the non-asbestos roofing found on the garage.

2.3 Lead (Paint) Coatings Laboratory Report/Chain of Custody

IATL International Asbestos Testing Laboratories

9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client:	Idaho Division Of Public Works	**Report Date:**	5/2/2013
	502 N. 4th Street, PO Box 8372	**Report Number:**	303227
	Boise ID 83720-0072	**Project:**	603 Franklin Street
		Project No.:	DPW# 13926

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.	Client No.	Location / Description	Concentration Lead By Weight (%)
4989842	603-L-01	Pink/Mauve Exterior Trim/Siding Paint Over Wood; House/Garage	19
4989843	603-L-02	Teal/Grey Exterior Trim/Siding Paint Over Wood; House	15
4989844	603-L-03	Off-White/White ExteriorTrim/SoffitPaint Over Wood & Metal; House	10
4989845	603-L-04	White Interior Wall Trim Paint Over Plaster/Wood; House	11
4989846	603-L-05	Pink Interior Wall Paint Over Plaster/Wallpaper; House	0.22***
4989847	603-L-06	Teal/Green Interior Wall Paint Over Plaster/Wallpaper; House	0.007***

Accreditations: NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)
AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

Analytical Methods: ASTM D3335-85A "Standard Method To Test For Low Concentrations Of Lead In Paint By Atomic Absorption Spectrophotometry"
EPA SW846-(3050B:7000B) "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges and Sediments By AAS"

Comments: Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Apendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0044% by weight. RL= 0.010% by weight (based upon 100 mg sampled). * Insufficient sample provided to perform QC reanalysis (<200 mg) ** Not enough sample provided to analyze (<50 mg) *** Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

Date Received: 4/30/2013

Date Analyzed: 5/2/2013

Analyst: C. Shaffer

Approved By:

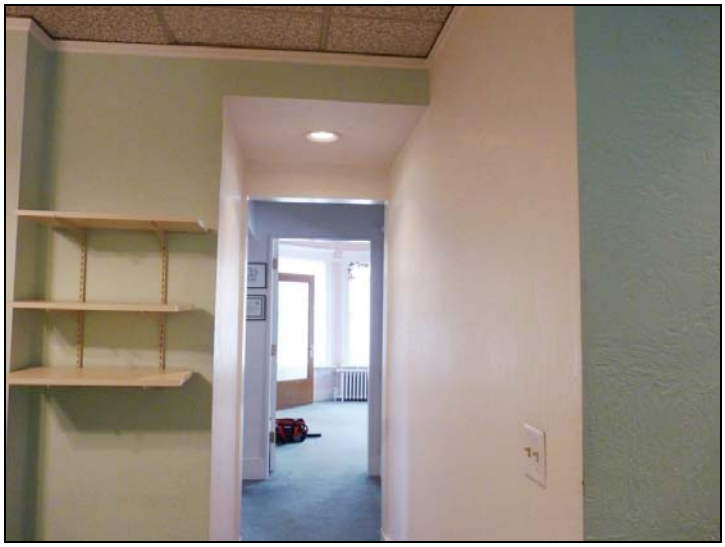
Frank E. Ehrenfeld, III
Laboratory Director

Page 1 of 1

2.4 Lead-containing Coatings Photo Log

1. **View of lead-containing coatings (paints) found on the exterior of the house and garage. The exterior coatings were found to be in stable condition and are intact. The exterior coating can be managed in place.**

2. **View of the lead-containing coatings (white paint) found on the interior of the house. The white interior paint is in stable and intact condition.**



3. **View of the non-regulated (<0.5%) lead-containing coatings (pink, teal and grey-green paint) found on the interior of the house. The interior paint is in stable and intact condition, and can be managed in place.**

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.

Lead paint chip samples were collected and analyzed in accordance with EPA and OSHA guidelines. Samples were taken at various locations representative of coatings and conditions identified throughout each segment of the building.

Materials Testing & Inspection (MTI) in Boise, 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. 101571) for quality assurance in proficiency of bulk asbestos identification. All bulk samples collected during the inspection were submitted to MTI for PLM analysis.

All lead paint samples collected during the inspection were submitted to International Asbestos Testing Laboratory (IATL) in Laurel, New Jersey for analysis. The laboratory is accredited and is a successful participant in the NLLAP (National Lead Laboratory Accreditation Program) NYSDOH – ELAP No. 11021.

Samples were randomly chosen to be representative of each homogenous material. However, URS 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 URS Professional Engineer 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 URS 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 and/or lead 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 December 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, 29 CFR 1926.1101, Construction Industry (asbestos) Standard and 29 CFR 1926.62 OSHA Construction (lead) 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).

3.3 EPA and OSHA Recommendations for Lead-Based Paint O&M Plans

Generally, the EPA and OSHA recommend that ACM, PACM and lead-based paint (coatings) be managed in place and that an O&M plan be developed considering the following items:

- ACM is defined as any material, which contains greater than 1 percent asbestos (>1%). This means that any material, which contains 1% or less asbestos, is considered a non-regulated ACM.

- All non-friable materials which are positive for asbestos (>1%) which may be subjected to sanding, grinding, cutting, drilling, and/or abrading are categorized by EPA under NESHAP as either Category I or Category II non-friable RACM.
- Lead-based paint is identified as paint containing 0.5% lead by weight under EPA/HUD Guidelines. However, OSHA has no such limits and regulates work exposure based on airborne concentration of lead within the work space and/or by the type of work or activity that may expose the worker above the action level or permissible exposure limit (PEL).
- EPA and OSHA recommend that a proactive, in place asbestos and/or lead-based paint operations and maintenance (O&M) program be implemented whenever ACM and/or lead-containing paint is discovered. In order to prevent significant public exposure to airborne asbestos fibers, EPA requires that building owners remove ACM and/or lead-based paint prior to building demolition or building renovation in which the existing conditions of the ACM and/or lead-based paint may pose an imminent threat to public health.
- An EPA accredited asbestos management planner and/or competent person should be utilized when developing an O&M program.
- EPA and OSHA recommend that building owners make available all written elements of the O&M program to the building O&M staff, as well as to tenants and other building occupants. Facility owners are also encouraged to consult with legal counsel concerning appropriate record keeping strategies as a standard part of their O&M programs.
- Building owners should inform maintenance workers, occupants, and tenants about the location and physical condition of the ACM, PACM and/or lead-based paint that they might disturb, and stress the need to avoid disturbing the material. Occupants should be notified for two reasons: (1) building occupants should be informed of any potential hazard in their vicinity; (2) informed persons are less likely to disturb the material and cause fibers and/or lead to be released.
- Facility owners should control access to the areas where the materials are located, mark materials with appropriate warning labels where applicable, and repair damaged materials as soon as possible (OSHA, 29 CFR 1910.1001 (j) Communication of Hazards to Employees).

3.4 URS Recommendations

All of the regulated asbestos-containing materials (ACM) and lead-containing paints identified during the survey inspection were found to be in good-to-fair condition.

Control access to the ACM and lead-containing paint throughout the building, ensuring that the building materials are not disturbed and are not subjected to sanding, grinding, cutting, drilling, and/or abrading.

URS makes the following general recommendations for the ACM and lead-containing paints identified by the survey:

- Develop a plan for managing in place and controlling access to, disturbance of, and/or damage to the ACM and lead-containing paints identified on and within the building.
- Routinely alert all state employees, applicable visitors, and outside contractor personnel of the presence of ACM and lead-containing paint on and within the building and/or work areas.
- At the time of removal or demolition, implement a asbestos and lead paint awareness program as required under OSHA. An asbestos and lead hazard awareness and handling procedure should be developed that will ensure worker protection per 29 CFR 1926.1101 (asbestos) and 29 CFR 1926.62 (lead) OSHA construction standard and in compliance with EPA regulations regarding ACM and lead containing materials that may be subjected to sanding, grinding, cutting, drilling, or abrading.

3.4.1 Permits and Notifications

Prior to demolition and/or renovation of the building the contractor will need to provide proof satisfactory to the Owner or his Representative that all necessary permits have been secured in conjunction with demolition, removal, hauling, and disposal of the construction debris 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. The following information is provided for the purposes of EPA/NESHAP notification.

Structure:	House (converted to office building) and detached garage
Address:	603 West Franklin Street in Boise, Idaho
County:	Ada
Current Use:	Office spaces, storage and mechanical spaces
Owner:	State of Idaho Department of Administration
Contact:	Josh Lewis (208) 332-1908

APPENDIX A

ASBESTOS ABATEMENT – PHOTO LOG & LABORATORY REPORT

Asbestos-Containing Materials – Pre- & Post-Abatement Photo Log

1. **View of the asbestos-containing caulking used around the wood framed windows. The caulking is located between the frame and the grey mortar and rock exterior found on the lower sections of the house.**

2. **Pre-abatement view of the asbestos-containing vinyl floor tile (VAT) found beneath the carpet within the old kitchen space located at the rear of the house.**

3. **Post-abatement view of kitchen space once the VAT had been removed. Also shows the air monitoring pump in the windowsill.**

4. **Pre-abatement view of the asbestos-containing TSI pipe run and fitting insulation found within the basement mechanical room and various locations throughout the basement and crawlspaces.**

5. **Post-abatement view of the basement mechanical room. Also shows the air monitoring sampling pump used to collect post-abatement airborne fiber levels within the space.**

6. **Views of the poly containment barrier and warning signs used by the contractor to control access to the space. Also shows the double-bagged TSI waste.**

7. View of the glove-bag used to remove sections of the TSI pipe and fitting insulation found within the basement and crawlspaces of the house.

8. Pre-abatement view of the asbestos paper duct tape located in the basement mechanical room.

9. Post-abatement view of the basement mechanical room showing that the asbestos paper duct tape has been removed.

MATERIALS TESTING & INSPECTION

o Environmental Services o Geotechnical Engineering o Construction Materials Testing o Special Inspections

TIM BIRD
URS
P.O. Box 73
Boise, Idaho 83729

MTI FILE #: B130013e

PROJECT: 603 W. Franklin St. Abatement
LOCATION:

ANALYSIS DATE: 5-20-13
P.O. NUMBER: ID11.T046.001
Method: NIOSH 7400 (A)

AIR SAMPLE ANALYSIS FOR AIRBORNE FIBERS

SAMPLE ID.	LAB ID.	LOCATION	SAMPLE DATE	TOTAL TIME	AVG FLOW	VOLUME (LITERS)	FIBERS / FIELDS	F/MM²	F/CC	F/CC TWA
603-01	A13275	Main Floor Post VAT removal old kitchen space rear of house	5/14/2013	600	2.137	1282	6 / 100	7.64	0.002	N/A
603-02	A13276	Basement Mechanical Post abatement of TSI Pipe Run/Fittings	5/14/2013	600	2.14	1284	4 / 100	5.10	<0.002	N/A

*clearance level is 0.01 f/cc

SAMPLED BY:	Tim Bird
REPRESENTING:	URS
ANALYZED BY:	Laurie Kuther

Respectfully submitted
MATERIALS TESTING & INSPECTION, INC.

Laurie Kuther
Chief Microscopist

2791 S. Victory View Way, Boise ID 83709 208 376-4748 Fax 208 322-6515
E-Mail mti@mti-id.com www.mti-id.com

APPENDIX B

Chain of Custodies (COCs) for Asbestos Bulk and Lead Paint Chip Samples

URS

P.O. Box 73, Boise, ID 83729
EXPRESS MAIL ONLY: 720 Park Blvd., Boise, ID 83712
(208) 386-5854 Fax: (208) 386-7146

Contact Person: Tim A. Bird W.O. # ID11.T046.001
Project Name: 603 W. Franklin Street

INVOICE TO:
Company Name: State of Idaho DPW
Address: 502 N. 4th Street
City/State/Zip: Boise, ID 83720
Phone#: (208) 890-5062 Tim Bird
Contact Person: Josh Lewis 332-1908
Project/P.O.#: DPW# 13926

ASBESTOS/LEAD CHAIN OF CUSTODY/ SAMPLE TRANSMITTAL FORM

No. 0178

Special Notes: Standard
Please email results to:
tim.bird@urs.com
Thank you
Tim

Analysis Type: ☑ PLM ☐ PCM ☐ TEM ☐ LEAD ☐ AIR ☑ BULK ☐ AA ☐ TCLP ☐ QA-QC (SPLIT) ☐ Other
Turnaround Time: ☐ Rush ☐ 24 Hour ☑ Standard **Requested:** ☑ Hard Copy ☑ E-mail
Sample Status: ☐ Return to client ☐ Archive Sample for One Year

Samples Collected by: Tim Bird Calibration Method

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	F/cc
	1 603-A-01	4/29/13	Bulk	Asphalt Shingle Roofing Eastside										
	2 603-A-02			" " " Westside										
	3 603-A-03			" " " rear										
	4 603-A-04			Mortar between Rock (Stone) Exterior Walls - Front										
	5 603-A-05			" " " - East side -										
	6 603-A-06			" " " - Westside -										
	7 603-A-07			Window Glazing Compound Exterior Window around glass Front - Northside -										
	8 603-A-08			" " " eastside										
	9 603-A-09			" " " westside										
	10 603-A-10			Window Caulking between Frame and Stone siding Front										

TYPE: **P** = Personal, **EL** = Excursion Limit, **PA** - Pre-Abatement, **C** = Clearance, **IWA** = Inside Work Area, **OWA** = Outside Work Area, **NAM** = Negative Air, Machine Exhaust, **HF** = High Flow, **LF** = Low Flow

Relinquished by (Date/Time)	Received by (Date/Time)	Relinquished by (Date/Time)	Received by (Date/Time)
Tim A. Bird 4/30/13	Victor Mc 4/30/13		

URS

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(208) 386-5854 Fax: (208) 386-7146

INVOICE TO:
Company Name: State of Idaho DPW
Address: 502 N. 4th Street
City/State/Zip: Boise, ID 83720
Phone#: (208) 890-5062 Tim Bird
Contact Person: Josh Lewis 332-1908
Project/P.O.#: DPW# 13926

ASBESTOS/LEAD CHAIN OF CUSTODY/ SAMPLE TRANSMITTAL FORM

No. 0179

Special Notes: Standard
Email results
tim.bird@urs.com
Thank you
Tim

Contact Person: Tim A. Bird W.O. #IDII.T0546.001
Project Name: 603 W. Franklin Street

Analysis Type: ☑ PLM ☐ PCM ☐ TEM ☐ LEAD ☐ AIR ☑ BULK ☐ AA ☐ TCLP ☐ QA-QC (SPLIT) ☐ Other
Turnaround Time: ☐ Rush ☐ 24 Hour ☑ Standard **Requested:** ☑ Hard Copy ☑ E-mail
Sample Status: ☐ Return to client ☐ Archive Sample for One Year

Samples Collected by: Tim Bird Calibration Method

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	F/cc
	1 603-A-11	4/29/13	Bulk	Window Caulking between Frame/stone siding - Eastside -										
	2 603-A-12			" " " -westside-										
	3 603-A-13			Stucco Finish Exterior Back Porch westside at opening										
	4 603-A-14			Stucco " " NW edge										
	5 603-A-15			" " " Rear by back door										
	6 603-A-16			Construction Paper beneath the Stucco westside by hole										
	7 603-A-17			" " " NW edge										
	8 603-A-18			" " " rear by back door										
	9 603-A-19			Blown-in Insulation Attic Space North end										
	10 603-A-20			" " " eastside										

TYPE: **P** = Personal, **EL** = Excursion Limit, **PA** - Pre-Abatement, **C** = Clearance, **IWA** = Inside Work Area, **OWA** = Outside Work Area, **NAM** = Negative Air, Machine Exhaust, **HF** = High Flow, **LF** = Low Flow

Relinquished by (Date/Time)	Received by (Date/Time)	Relinquished by (Date/Time)	Received by (Date/Time)
Tim A. Bird 4/30/13	[illegible] 4/30/13		

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INVOICE TO:
Company Name: State of Idaho DPW
Address: 502 N. 4th Street
City/State/Zip: Boise, ID 83720
Phone#: (208) 890-5062, Tim Bird
Contact Person: Josh Lewis 332-1908
Project/P.O.#: DPW#13926

ASBESTOS/LEAD CHAIN OF CUSTODY/ SAMPLE TRANSMITTAL FORM

No. 0180

Special Notes: Standard
Please email results to tim.bird@urs.com
Thank you
Tim

Contact Person: Tim A. Bird W.O. #ID11.T046.001
Project Name: 603 W. Franklin Street

Analysis Type: ☑ PLM ☐ PCM ☐ TEM ☐ LEAD ☐ AIR ☑ BULK ☐ AA ☐ TCLP ☐ QA-QC (SPLIT) ☐ Other
Turnaround Time: ☐ Rush ☐ 24 Hour ☑ Standard **Requested:** ☑ Hard Copy ☑ E-mail
Sample Status: ☐ Return to client ☐ Archive Sample for One Year

Samples Collected by: Tim Bird Calibration Method

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	F/cc
	1 603-A-21	4/29/13	Bulk	Blown-in Insulation Attic by Access Opening Southend										
	2 603-A-22			Batt Insulation Attic space beneath Blown-in Insulation										
	3 603-A-23			" " " NE space over 1st Floor										
	4 603-A-24			" " " by access opening										
	5 603-A-25			Brick & Mortar basement walls Front										
	6 603-A-26			" " " Eastside										
	7 603-A-27			" " " Chimney										
	8 603-A-28			Plaster, Finish interior walls & Ceiling up stairs - Ceiling										
	9 603-A-29			" " " Main Floor wall										
	10 603-A-30			" " " basement Ceiling										

TYPE: **P** = Personal, **EL** = Excursion Limit, **PA** - Pre-Abatement, **C** = Clearance, **IWA** = Inside Work Area, **OWA** = Outside Work Area, **NAM** = Negative Air, Machine Exhaust, **HF** = High Flow, **LF** = Low Flow

Relinquished by (Date/Time)	Received by (Date/Time)	Relinquished by (Date/Time)	Received by (Date/Time)
Tim A. Bird 4/30/13	Vicki Mc 4/30/13		

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INVOICE TO:
Company Name: State of Idaho DPW
Address: 502 N. 4th Street
City/State/Zip: Boise, ID 83720
Phone#: (208)890-5062, Tim Bird
Contact Person: Josh Lewis 332-1908
Project/P.O.#: DPW#13926

ASBESTOS/LEAD CHAIN OF CUSTODY/ SAMPLE TRANSMITTAL FORM

No. 0181

Special Notes: Standard
Please email results to:
Tim.bird@urs.com
Thank you
Tim

Contact Person: Tim A. Bird W.O. # ID11.T046.001
Project Name: 603 W. Franklin Street

Analysis Type: ☑ PLM ☐ PCM ☐ TEM ☐ LEAD ☐ AIR ☑ BULK ☐ AA ☐ TCLP ☐ QA-QC (SPLIT) ☐ Other
Turnaround Time: ☐ Rush ☐ 24 Hour ☑ Standard **Requested:** ☑ Hard Copy ☑ E-mail
Sample Status: ☐ Return to client ☐ Archive Sample for One Year

Samples Collected by: Tim Bird Calibration Method

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	F/cc
	1 603-A-31	4/29/13	Bulk	Ceiling Tiles Old 12" x 16-inches above New Ceiling Tiles										
	2 603-A-32			" " " 12x12-inch up stairs East Bedroom										
	3 603-A-33			" " " back room over Plaster Ceilings										
	4 603-A-34			2ft x 2ft Ceiling tiles New upstairs Front room										
	5 603-A-35			" " " upstairs Main Room										
	6 603-A-36			" " " Main Level										
	7 603-A-37			Drywall/Joint Compound walls upstairs back room										
	8 603-A-38			" " " Main Level back Porch										
	9 603-A-39			" " " basement Hallway										
	10													

TYPE: **P** = Personal, **EL** = Excursion Limit, **PA** = Pre-Abatement, **C** = Clearance, **IWA** = Inside Work Area, **OWA** = Outside Work Area, **NAM** = Negative Air, Machine Exhaust, **HF** = High Flow, **LF** = Low Flow

Relinquished by (Date/Time)	Received by (Date/Time)	Relinquished by (Date/Time)	Received by (Date/Time)
Tim A. Bird 4/30/13	Vicki Bates 4/30/13		

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INVOICE TO:
Company Name: State of Idaho DPW
Address: 502 N. 4th Street
City/State/Zip: Boise, ID 83720
Phone#: (208) 890-50890, Tim Bird
Contact Person: Josh Lewis 332-1908
Project/P.O.#: DPW# 13926

ASBESTOS/LEAD CHAIN OF CUSTODY/ SAMPLE TRANSMITTAL FORM

No. 0182

Special Notes: Standard
Please email results
tim.bird@urs.com
Thank you
Tim

Contact Person: Tim A. Bird W.O. #ID11.T046.001
Project Name: 603 W. Franklin Street

Analysis Type: ☑ PLM ☐ PCM ☐ TEM ☐ LEAD ☐ AIR ☑ BULK ☐ AA ☐ TCLP ☐ QA-QC (SPLIT) ☐ Other
Turnaround Time: ☐ Rush ☐ 24 Hour ☑ Standard **Requested:** ☑ Hard Copy ☑ E-mail
Sample Status: ☐ Return to client ☐ Archive Sample for One Year

Samples Collected by: Tim Bird Calibration Method

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	F/cc
	1 603-A-40	4/29/13	Bulk	9-inch Vinyl Floor Tile Black mastic over Tar paper over hardwood Floor										
	2 603-A-41			" " " beneath carpet back Room Main Level										
	3 603-A-42			" " " SW Corner beneath Carpet										
	4 603-A-43			Sheet Vinyl (Linoleum) Floor/step inside Closet Back Porch										
	5 603-A-44			" " " 1st step										
	6 603-A-45			" " " Landing										
	7 603-A-46			TSI Aircell Pipe run Insulating basement Steam pipe/Domestic water lines										
	8 603-A-47			TSI Mudded Fitting Steam lines basement										
	9 603-A-48			Paper Duct Tape Metal on Chimney										
	10													

TYPE: ~~P~~ = Personal, **EL** = Excursion Limit, **PA** - Pre-Abatement, **C** = Clearance, **IWA** = Inside Work Area, **OWA** = Outside Work Area, **NAM** = Negative Air, Machine Exhaust, **HF** = High Flow, **LF** = Low Flow

Relinquished by (Date/Time)	Received by (Date/Time)	Relinquished by (Date/Time)	Received by (Date/Time)
Tim A. Bird 4/30/13	Nick Ellis 4/30/13		

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(208) 386-5854 Fax: (208) 386-7146

Contact Person: Tim A. Bird W.O. # IDII-T046.001
Project Name: 603 W. Franklin Street

INVOICE TO:
Company Name: State of Idaho DPW
Address: 502 N. 4th Street
City/State/Zip: Boise, ID 83720
Phone#: (208) 890-5062, Tim Bird
Contact Person: Josh Lewis 332-1908
Project/P.O.#: DPW#13926

ASBESTOS/LEAD CHAIN OF CUSTODY/ SAMPLE TRANSMITTAL FORM

No. 0183

Special Notes: Standard
Please email results to:
tim.bird@urs.com
Thank you
Tim

Analysis Type: ☑ PLM ☐ PCM ☐ TEM ☐ LEAD ☐ AIR ☑ BULK ☐ AA ☐ TCLP ☐ QA-QC (SPLIT) ☐ Other
Turnaround Time: ☐ Rush ☐ 24 Hour ☑ Standard **Requested:** ☑ Hard Copy ☑ E-mail
Sample Status: ☐ Return to client ☐ Archive Sample for One Year

Samples Collected by: Tim Bird Calibration Method

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	F/cc
	1 603-A-49	4/29/13	Bulk	Roof Garage Top Layer										
	2 603-A-50			" " " 2ND Layer (middle)										
	3 603-A-51			" " " bottom Layer										
	4 603-A-52			Brick/Mortar Garage Walls										
	5 603-A-53			" " " North Side										
	6 603-A-54			" " " SE Corner										
	7 603-A-55			Plaster Finish Ceiling Garage										
	8 603-A-56			" " " by Damage										
	9 603-A-57			" " " over wood lath										
	10													

TYPE: **P** = Personal, **EL** = Excursion Limit, **PA** - Pre-Abatement, **C** = Clearance, **IWA** = Inside Work Area, **OWA** = Outside Work Area, **NAM** = Negative Air, Machine Exhaust, **HF** = High Flow, **LF** = Low Flow

Relinquished by (Date/Time)	Received by (Date/Time)	Relinquished by (Date/Time)	Received by (Date/Time)
	Nick Emi 4/30/13		

URS

P.O. Box 73, Boise, ID 83729
EXPRESS MAIL ONLY: 720 Park Blvd., Boise, ID 83712
(208) 386-5854 Fax: (208) 386-7146

Contact Person: Tim A. Bird W.O. #: IDI6T046.001
Project Name: 603 West Franklin Street Boise

INVOICE TO:
Company Name: State of Idaho DPW
Address: 502 N. 4th Street
City/State/Zip: Boise, ID 83687
Phone#: (208) 890-5062, Tim URS
Contact Person: Josh Lewis, 332-1908
Project/P.O.#: DPW#13902

ASBESTOS/LEAD CHAIN OF CUSTODY/ SAMPLE TRANSMITTAL FORM

No. 0186

Special Notes: 24hrs Turn
Please email results to:
tim.bird@urs.com
Thank you
Tim

Analysis Type: ☑ PLM ☐ PCM ☐ TEM ☐ LEAD ☐ AIR ☑ BULK ☐ AA ☐ TCLP ☐ QA-QC (SPLIT) ☐ Other
Turnaround Time: ☐ Rush ☑ 24 Hour ☐ Standard **Requested:** ☑ Hard Copy ☑ E-mail
Sample Status: ☐ Return to client ☐ Archive Sample for One Year

Samples Collected by: Tim Bird Calibration Method

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	F/cc
	1 603-A-58	5/13/13		Yellow/Brown Linoleum beneath carpet Dining Area										
	2 603-A-59	〃		〃 〃 〃 burlap/Felt backing over hard wood										
	3 603-A-60	〃		〃 〃 〃										
	4													
	5													
	6													
	7													
	8													
	9													
	10													

TYPE: **P** = Personal, **EL** = Excursion Limit, **PA** - Pre-Abatement, **C** = Clearance, **IWA** = Inside Work Area, **OWA** = Outside Work Area, **NAM** = Negative Air, Machine Exhaust, **HF** = High Flow, **LF** = Low Flow

Relinquished by (Date/Time)	Received by (Date/Time)	Relinquished by (Date/Time)	Received by (Date/Time)
Tim A. Bird 5/13/13	[illegible] 5/13/13 1:41PM		

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054
Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Chain of Custody

– Environmental Lead –

Contact Information

Client Company:	State of Idaho DPW	**Project Number:**	DPW# 13926
Office Address:	502 N. 4th Street	**Project Name:**	603 Franklin Street
City, State, Zip:	Boise, ID 83720	**Primary Contact:**	Josh Lewis / Tim Bird
Fax Number:	(208) 334-4031	**Office Phone:**	(208) 332-1908, Josh
Email Address:	tim.bird@urs.com	**Cell Phone:**	(208) 890-5062, Tim

iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs.

Matrix/Method:

- [X] Paint by AAS: ASTM D3335-85a, 2009
- [ ] Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010
- [ ] Air by AAS: NIOSH 7082, 1994
- [ ] Soil by AAS: EPA SW 846 (Soil)
- [ ] Water by AAS-GF: ASTM D3559-03D, USEPA 40CFR 141.11B, 2010
- [ ] Other Metals (Cd, Zn, Cr) by AAS
- [ ] Toxicity Characteristic Leaching Procedure (TCLP) by AAS: USEPA 1311
- [ ] Other _____

Special Instructions:

_____

_____

Turnaround Time

Preliminary Results Requested Date: 5-3-2013 (Specific date / time)

☐ Verbal ☒ Email ☐ Fax

☐ 10 Day ☐ 5 Day ☒ 3 Day ☐ 2 Day ☐ 1 Day* ☐ 12 Hour** ☐ 6 Hour** ☐ RUSH**

* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***

Chain of Custody

Relinquished (Name/Organization):	Tim Bird, URS	Date: 4-29-13	Time: 1600 hrs
Received (Name / iATL):		Date:	Time:
Sample Login (Name / iATL):		Date: 4/30/13	Time:
Analysis(Name(s) / iATL):	~~AA~~ Cos 5/2/13	Date:	Time:
QA/QC Review (Name / iATL):	~~AA~~ AA 5/3/13	Date:	Time:
Archived / Released: _____ QA/QC InterLAB Use: _____		Date:	Time:

RECEIVED
APR 30 2013
IATL - BY

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Sample Log

–Environmental Lead –

Client: State of Idaho DPW Project: 603 Franklin Street Boise

Sampling Date: 4-29-2013

Client Sample #	iATL #	Location/ Description	Flow Rate	Start / End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
603-L-01	4989842	Exterior Trim/Siding Pink & Mauve over wood			(Composite) House/Garage	6 sq-inches	
603-L-02	4989843	Exterior Trim/siding Teal/grey overwood			(Composite) House	6 sq-inches	
603-L-03	4989844	Exterior Trim/Soffit Off white/White over wood & Metal			(Composite) House	8 sq-inches	
603-L-04	4989845	Interior Walls/Trim - white - over Plaster/wood			(Composite) House	3 sq-inches	
603-L-05	4989846	Interior walls over Plaster/wallpaper	- Pink -		(Composite) House	4 sq-inches	
603-L-06	4989847	Interior walls over Plaster/wallpaper	- Teal Green -		(Composite) House	3 sq-inches	

* = *Insufficient Sample Provided to Perform QC Reanalysis (<200mg)*
** = *Insufficient Sample Provided to Analyze (<50mg)* ***= *Matrix / Substrate Interference Possible*
FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.
These **preliminary results** are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.

APPENDIX C

Lead Paint Waste Stream Characterization for all Lead Paint found in Stable Condition

Note: this section is only applicable to the Paints that contain lead in concentrations above 0.5%.

Lead Paint Waste Stream Characterization for Exterior and Interior Lead-Base Paint 603 West Franklin Street (House and Garage) Buildings located in Boise, Idaho

URS performed sampling of various painted substrates on the exterior and interior of the house and detached garage located at 603 West Franklin Street in Boise, Idaho for total lead analysis in support of the Survey and Assessment. The three samples of the exterior (composite) paint and one sample of the interior white paints (coatings) exceeded the RCRA Toxicity Characteristic Leaching Procedure (TCLP) regulatory level of 0.01% by weight for a toxicity characteristic hazardous waste for lead.

However, these coatings as well all of the remaining painted building materials were found to be in fair (stable) condition and due to the low volume of lead-based paint material, when compared to the entire demolition debris waste stream, these materials were determined to be nonhazardous.

The four stable lead-based painted coatings represent only a small fraction of the total demolition debris waste stream. The Idaho Department of Environmental Quality (IDEQ) allows for volume calculations to be performed during the hazardous waste assessment for demolition debris with lead-based paint to estimate the lead toxicity level of the entire debris waste stream. Based on these volume calculations, the lead toxicity level was determined to be well below the regulatory level of 5 parts per million (ppm) for TCLP lead or (100 ppm for total lead); therefore, the demolition debris waste stream would be considered nonhazardous. Refer to the attachment for the waste determination.

Waste Determination – 603 West Franklin Street (House and Garage) in Boise, Idaho
Summary
A hazardous waste determination was performed for potential demolition debris waste streams associated with lead-paint building materials related to the house and detached garage located at 603 West Franklin Street as part of the survey update and assessment. The hazardous waste determination was based on process knowledge including volume calculations and data from lead-based paint associated with the various building material waste streams that will collectively make up the demolition debris waste stream. Several of the building material waste streams contain a small portion of material with lead-based paint. Samples of the lead-based paint were collected and analyzed for total lead (% by weight). The Idaho Department of Environmental Quality (IDEQ) allows for volume calculations to be performed during the hazardous waste assessment for demolition debris with lead-based paint to estimate the lead toxicity level of the entire debris waste stream.

The following table shows volume calculations for the demolition waste streams. Projected total lead and TCLP lead values were calculated for each waste stream. All TCLP lead levels estimated in the final demolition waste streams were well below the toxicity regulatory level of 5 ppm TCLP for hazardous waste.

Waste Stream	Total Lead by Weight in LBP (%)	Total Lead in LBP (ppm)	Est. Percent LBP on Material	Volume Material with LBP (cy)	Total Volume of LBP (cy)	Total Volume Material (cy)	Est. Lead in Waste Stream (ppm)	Est. TCLP lead (ppm)
Exterior Windows, Trim & Soffit	19	190000	0.01	0.156	2E-05	20	0.20	0.0099
Exterior Trim and Siding	15	150000	0.001	0.389	4.7E-06	20	0.04	0.002
Interior Plaster/Wood Trim & Millwork	11	110000	0.01	3.2	0.00028	200	0.16	0.0078
Interior Walls & Ceilings	0.22	2200	0.07	0.056	3.7E-05	14	0.01	0.0003

LBP = lead-based paint

Waste stream for wood includes construction (C&D) material (wood, insulation board, ceiling tiles & roofing); C&D material does not include concrete or brick

Note: Less than 0.01 total lead by weight (%) = less than 100 ppm total lead = less than 5 ppm TCLP lead.

Nonhazardous Determination

As shown in the table above, estimated lead toxicity levels of the exterior trim, fascia and soffit and the interior building materials demolition debris are <u>below</u> the regulatory level for a toxicity characteristic hazardous waste. Therefore, the entire exterior and interior demolition debris waste stream is determined to be <u>nonhazardous.</u>

[1] Discussion with IDEQ staff (Waste Management and Remediation Division of IDEQ); July 2010. IDEQ allows for modeling of TCLP lead-based paint data to the entire demolition debris waste stream. Volume calculations can be performed to account for the entire building waste stream and the volumes can be compared to 5 ppm for TCLP lead and 100 ppm total lead (i.e., accounting for weight is not necessary). It is recommended that the waste determination be kept in the generator's files; it does not need to be submitted to IDEQ.

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