



CONSTRUCTION ADDENDUM: 1

12/31/2025

PROJECT

NAME: Eastridge House HVAC Improvements

PROJECT MANAGER: Carl Frankel

PHONE NUMBER: 425-891-3317

EMAIL ADDRESS: Carlf@kcha.org

This Addendum is used to Identify Items in the Original Documents with Action as Follows:

- ☒ **CLARIFY** ☐ **CHANGE** ☐ **DELETE**
☒ **ADD** ☐ **SUBSTITUTE**

Page(s) Total for this Addenda including this page 69

-
1. *ADD: See Exhibit H for Hazardous Materials report. Contractor will be responsible for all necessary abatement of hazardous materials. Contractor to follow all abatement protocols, codes and procedures when handling hazardous materials.*
 2. *ADD: Prior to contract award, there will be a vetting meeting with the apparent low bidder. Contractor will be required to submit a detailed Schedule of Values (SOV) for review and approval at the vetting meeting. See Exhibit S for sample SOV.*
 3. *CLARIFY: Contractor will be responsible to coordinate with Owner's Commissioning Agent. Contractor will supply commissioning agent all information necessary for complete commissioning report.*

END OF CONSTRUCTION ADDENDUM: 1



February 28, 2013

Alton Leung
King County Housing Authority
600 Andover Park West
Tukwila, Washington 98188

RE: Limited Asbestos and Lead Containing Materials Survey Report – Piping Renovation Pathway
Areas Surveyed Include all Common Areas and Units 111, 113, 211, 213, 311 and 313

**Eastridge House
120 West Sunset Way
Issaquah, Washington 98027
(Project # KCHA32114)**

Dear Mr. Leung,

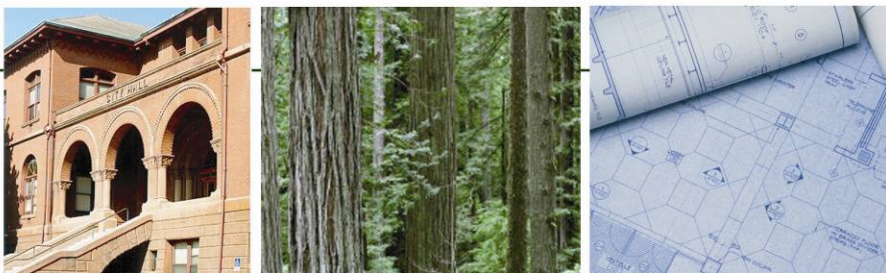
Attached is the RGA Environmental limited asbestos and lead containing materials survey report for the piping renovation pathway throughout the Eastridge House located at 120 West Sunset Way in Issaquah, Washington. The areas surveyed include all common areas and units 111, 113, 211, 213, 311 and 313.

We appreciate the opportunity to have been of service to you. If you have any questions regarding this report feel free to contact me at (206) 281-8858.

Sincerely,

A handwritten signature in black ink, appearing to read "Angela Harkins", is written over a faint, larger signature.

Angela Harkins
Project Manager
RGA Environmental, Inc.



Limited Asbestos and Lead Containing Materials Survey Report – Piping Renovation Pathway

Eastridge House
120 West Sunset Way
Issaquah, Washington 98027

Project No. KCHA32114

Prepared for:

Alton Leung
King County Housing Authority
600 Andover Park West
Tukwila, Washington 98188

Prepared by:

RGA Environmental, Inc.
1730 Minor Avenue, Suite 900
Seattle, WA 98101
206-281-8858

February 28, 2013

Report prepared and reviewed by:



Angela Harkins
Project Manager

Table of Contents

<u>Section</u>	<u>Page</u>
1.0 EXECUTIVE SUMMARY.....	1
2.0 INTRODUCTION	2
3.0 REGULATORY COMPLIANCE	3
4.0 SAMPLING PLAN AND LABORATORY ANALYSIS.....	5
5.0 SURVEY RESULTS	6
6.0 CONCLUSIONS AND RECOMENDATIONS.....	15
7.0 LIMITS OF SURVEY	15

Attachments:

- Laboratory Results
- Field Notes
- Sample Location Drawings
- RGA Certifications

1.0 EXECUTIVE SUMMARY

On February 15, 2013, Mr. John McCaslin and Mr. Russell Browne of RGA Environmental, Inc. (RGA) conducted a limited asbestos and lead containing materials survey for suspect asbestos-containing building materials and lead containing coatings throughout the plumbing renovation pathway, including all common areas and units 111, 113, 211, 213, 311 and 313 of the Eastridge House located at 120 West Sunset Way in Issaquah, Washington as outlined by the Client. This survey was conducted at the request of Mr. Alton Leung of the King County Housing Authority in preparation for the planned renovation at this location.

1.1 Asbestos

See Table 1 below for a summary of the asbestos containing materials found in the survey.

Table 1 - Summary of Asbestos-Containing Materials found Throughout the Plumbing Renovation Pathway, including all common areas and units 111, 113, 211, 213, 311 and 313 in the Eastridge House located at 120 West Sunset Way in Issaquah, Washington

Material Description (Homogeneous Material)	Location	Asbestos Content	Approximate Quantity*
Texturing on gypsum wallboard walls and ceilings	Throughout the building	2% Chrysotile	7,200 SF
Wallboard and joint compound	Throughout the building	Layers 2 and 4: Joint compound – 2% Chrysotile Wall unit as a whole - <1% Chrysotile	7,200 SF
Brown mastic associated with 4" tan, beige and olive green cove base	Throughout the building	<1% Tremolite	500 LF
Black sink undercoating	Throughout the building in both common areas and units	2% Chrysotile	Up to 40 EA
Gray sink undercoating	1 st floor community area	5% Chrysotile	1 EA
Beige/Tan speckled vinyl sheet flooring and mastic	1 st floor common restrooms, common kitchen and 3 rd floor laundry rooms	Layer 2: Black mastic – 3% Chrysotile	530 SF
Beige/Gray tile pattern vinyl sheet flooring/mastic over green mosaic pattern vinyl sheet flooring and mastic	Throughout 1 st , 2 nd and 3 rd floor units bedroom closets, bathrooms and kitchens	30% Chrysotile	4,500 SF
12"X12" Beige/Tan streaks vinyl floor tile and mastic	1 st floor chair storage, 2 nd floor janitor's closet and 3 rd floor janitor's closet	Vinyl tile – 2% Chrysotile Black mastic – 2% Chrysotile	250 SF
Mudded pipe fittings	Throughout building	3% Amosite	160 EA

*SF – Square Feet, LF – Linear Feet, EA - Each

Table 2 - Summary of Assumed Asbestos-Containing Materials found Throughout the Plumbing Renovation Pathway, including all common areas and units 111, 113, 211, 213, 311 and 313 in the Eastridge House located at 120 West Sunset Way in Issaquah, Washington

Material Description (Homogeneous Material)	Location	Asbestos Content	Approximate Quantity*
Piping gaskets	Piping	Assumed	Unknown
Hidden piping insulation not sampled	Throughout	Assumed	Unknown
4" Beige ceramic wall tile, grout and mortar or mastic	Common men's restroom	Assumed	130 SF
Mastic behind white fiberglass reinforced poly on walls	Garbage room	Assumed	140 SF
Ceramic wall tile, grout and mastic or mortar	Unit 111 bathroom – assumed in all bathrooms	Assumed	30 SF each unit
Mastic behind shower surround	Unit 113 bathroom – assumed in all bathrooms	Assumed	30 SF each unit

*SF – Square Feet

The full scope of sampling is presented in Section 5.

1.2 Lead

Based on XRF paint testing, 3 homogeneous painted components tested were found to have detectable quantities of lead; 2 of them were classifiable as lead-based paint¹. A complete table of paint coatings tested can be found in section 5.2 below.

2.0 INTRODUCTION

On February 15, 2013, Mr. John McCaslin and Mr. Russell Browne of RGA Environmental, Inc. (RGA) conducted a limited asbestos and lead containing materials survey for suspect asbestos-containing building materials and lead containing coatings throughout the plumbing renovation pathway including all common areas and units 111, 113, 211, 213, 311 and 313 of the Eastridge House located at 120 West Sunset Way in Issaquah, Washington as outlined by the Client. Both Mr. McCaslin and Mr. Browne are Asbestos Hazard Emergency Response Act (AHERA) certified building inspectors (Certificate # 12-0923, Expiration Date 05/10/2013 and Certificate #12-1560, Expiration Date 08/10/13). Mr. McCaslin is a Washington State Department of Commerce certified lead risk assessor/inspector (Certificate # 6039, Expiration Date 06/09/15). A copy of their certificates can be found in the enclosed attachments.

This survey was conducted to document the presence of and locations of both asbestos containing materials and lead containing paints or coatings within the plumbing renovation pathway including all common areas and units 111, 113, 211, 213, 311 and 313 of the Eastridge House located at 120 West Sunset Way in Issaquah, Washington. All applicable and accessible building areas were visited and samples were collected of building materials suspected to contain asbestos (wallboard, flooring materials, and other miscellaneous materials). Paint coatings were non-destructively tested for lead content using an XRF analyzer. See Table 3 for a list of materials sampled for asbestos and table 4 for a list of paint coatings tested.

Efforts were made during the inspection to find all asbestos containing materials in the plumbing renovation pathway, including all common areas and units 111, 113, 211, 213, 311 and 313 of the

¹ As defined by EPA/HUD, See Section 3.2 below

Eastridge House. Limited penetrations were made through walls, floors, and ceilings to identify concealed materials. If additional suspect materials are identified in wall cavities or under the building that were not included in this survey, the renovation work should halt and an accredited AHERA inspector should sample untested suspect materials for the presence of asbestos. Any materials not sampled and properly identified must be sampled by an AHERA inspector prior to disturbance.

The Eastridge House located at 120 West Sunset Way in Issaquah, Washington is a 3-story multi-family residential structure with 40 units and approximately 6,000 square feet of interior space that consists of a stick-built structure with wood siding. Interior finishes include the following: walls are gypsum wallboard and ceilings are a mixture of gypsum wallboard and suspended ceiling tiles; flooring materials include carpet, vinyl sheeting and vinyl tiles.

All contractors working on the building site must review this inspection report prior to participating in the renovation, per WAC 296-62-07721 "Communication of Hazards to Employees."

3.0 REGULATORY COMPLIANCE

3.1 Asbestos

The intent of the asbestos survey is to comply with governing asbestos regulations required by the State of Washington and Puget Sound Clean Air Agency (PSCAA). The State of Washington requires a written "good faith inspection" for identification of asbestos-containing materials prior to any remodeling, maintenance, or demolition work. During demolition and construction work, it is the responsibility of the owner and the contractors to make this survey document available to all concerned parties who may be handling the building materials.

Additionally, PSCAA requires that a copy of the written asbestos survey be made available on-site for inspection by a PSCAA Control Officer during construction and demolition work. The survey is required to be performed in accordance with 40 CFR 763.86. These federal standards require inspections to be conducted by an EPA/AHERA accredited building inspector with analysis to be provided by an asbestos laboratory accredited by the National Bureau of Standards. The requirements are described in Article 1 and Article 4 of PSCAA's Asbestos Control Standards. All survey work was conducted in compliance with the above mentioned standards.

3.2 Lead

The Washington State Department of Labor and Industries defines a lead-based paint to be a coating with any detectable lead. The United States Environmental Protection Agency (EPA) and US Department of Housing and Urban Development (HUD) have defined a lead-based paint as any coating containing greater than 0.5% lead or 1.0 mg/cm² of lead.

In Washington, workers disturbing lead-containing coatings are covered under the lead standard (WAC 296-155-176) until shown they are not being exposed above the action limit of 30 µg/m³ and the permissible exposure limit of 50 µg/m³. The requirements of this standard include, but are not limited to, air monitoring, respiratory protection, medical surveillance, lead work plan, warning signs, and wash stations.

When lead is discovered in a paint coating, worker protection and environmental protection requirements apply to all construction activities that may disturb these coatings. The issues surrounding the demolition of materials that have lead-containing coatings include worker exposure, public health, and waste characterization.

3.2.1 Worker Exposure to Lead

WAC 296-155-176, Lead, applies to all construction work where an employee may be occupationally exposed to lead. Construction work includes activities such as demolition or salvage, removal or encapsulation, and renovation of materials that contain lead. When a worker may be exposed to lead, the employer must take the following actions according to WAC 296-155-176:

1. Perform an exposure assessment for each operation where the employee may be exposed to lead at or above 30 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). The exposure assessment consists of personal air monitoring to determine representative lead exposure levels for the work being performed.
2. During the exposure assessment for demolition operations, the employer must provide and require to be worn half-mask air-purifying respirators equipped with high efficiency particulate air (HEPA) filters and disposable clothing.
3. A designated change area which allows for separate storage areas for work and street clothing to prevent cross contamination.
4. Hand washing facilities to allow employees to wash their hands and faces.
5. Biological monitoring in the form of blood sampling and analysis for lead and zinc protoporphyrin levels.
6. Training to include hazard communication, safety, and the limitations, proper use, and maintenance of respirators.

In addition to the protective equipment and hygiene requirements, the employer must attempt to reduce the levels of airborne lead through the use of engineering controls such as ventilation and wet methods.

3.2.2 Public Health

The owner should ensure that the general public will not have access to the site during renovation activities. In addition, controlling visible emissions (dust) will decrease the airborne concentration of lead, thus decreasing the airborne exposure levels of the general public and potential contamination of surrounding areas from dust migration.

Lead-Based Paint Renovation

The requirements of WAC 365-230-270, Lead-Based Paint Renovation, apply to "Target Housing or child-occupied facilities" that have paint or other surface coatings that contain lead equal to or in excess of 1.0 mg/cm² or 0.5% by weight as determined by an inspector or risk assessor or by a certified renovator using an EPA approved test kit. Requirements of WAC 365-230-270 for performing work in target housing include the following:

1. Distribution of information on lead paint hazards to housing occupants
2. Certification of the (Contractor) as a Lead Renovator
3. Certification of the firm as a lead renovation firm
4. Documented training of project workers, and working supervisor, in Lead Safe Work Practices
5. Utilize Lead Safe Work Practices in execution of the project
6. Documentation of cleaning verification or clearance testing, as required, at the completion of the project

7. Recordkeeping packet to be kept for 3 years by contractor, with a copy supplied to client at close of project.

4.0 SAMPLING PLAN AND LABORATORY ANALYSIS

4.1 Asbestos

4.1.1 Objectives

The objective of the survey was to determine the quantity and location of building materials (wallboard, flooring materials, etc.) that contain asbestos.

4.1.2 Asbestos Sampling Protocol

This survey was conducted using a protocol adapted from the Asbestos Hazard Emergency Response Act (AHERA). The protocol is as follows:

1. Group materials into homogeneous sampling areas based on visual observations and information provided about building renovations.
2. Quantify each homogeneous sampling area and collect samples from each area using the "3-5-7" criteria for surfacing material to determine the number of samples needed. Quantify and collect a minimum of three samples of each thermal system insulation. The number of samples collected of miscellaneous materials was determined by the inspector.
3. Samples were collected from areas of easy access and minimum disturbance to building occupants.
4. Samples of each material were taken to the substrate, ensuring that all components of the material were included.
5. Sampling was performed by an AHERA accredited building inspector.

4.1.3 Asbestos Sampling Procedure

1. Label sample container with unique identification number. Record sample number, sample location, type of material, and approximate material quantity on data form.
2. Extract sample using a clean knife or other tool to collect approximately one tablespoon of the material. Penetrate all layers of material.
3. Place sample in a container and tightly seal it.
4. Clean tools with wet wipes. Clean any material debris from sampling area.

4.1.3 Asbestos Laboratory Analysis

The bulk samples were analyzed by RGA Laboratory using polarized light microscopy (PLM) with dispersion staining in accordance with US EPA method 600/R-93/116 as specified in 40 CFR Chapter I (7-1-93 edition) Part 763, Subpart F, Appendix A, pages 499-504. Polarizing light microscopy quantifies asbestos concentrations at between 100% and 1% detection levels. Levels below 1% can only be stated as "trace" or "less than 1% (< 1%)". RGA Laboratory is a member of the National Voluntary Laboratory

Accreditation Program (NVLAP), NVLAP Code #200613-0. Samples were not analyzed by point count to determine asbestos concentrations.

For samples containing more than one separable layer of materials, the laboratory report will include findings for each layer (labeled L-1 for layer one and L-2 for layer two, etc.) and a total percentage for the entire sample, if applicable. The asbestos concentration in the sample is determined by visual estimation.

4.2 XRF (Lead Painted Coatings) Testing

4.2.1 Objectives

The objective of the testing was to determine locations of coatings that are lead containing and the percentage of lead in these coatings.

4.2.2 XRF Testing Procedure

Each painted component type was tested for the presence of LBP and one bulk paint chip sample was collected for quality control purposes. All building components to be impacted during renovations were tested. The results were recorded on data sheets (see attached documents).

After completing the testing of the building, components were identified as LBP or non-LBP based on presence of detectable lead. Painted components, which resulted in positive results, were classified as positive. Painted components testing as negative were classified as negative. No destructive QC samples (paint samples) were taken, as typically done when inconclusive results are found, as there were no inconclusive results.

4.2.3 X-Ray Fluorescence (XRF)

An XRF Lead Analyzer is a portable, in-situ measuring instrument that uses x-ray fluorescence to test for lead in paint. The XRF sends energy in the form of a gamma ray photon into the paint or coating on a wall. Some of the gamma rays strike the inner shells of atoms, resulting in the electron being dislodged from their orbit. The atom then becomes unstable. To regain stability, the atom fills the gap left by the lost electron with an electron from one of its outer shells. This causes the release of an x-ray photon (fluorescence). This photon has an energy level “characteristic” of the type of element (like lead) that it came from. The XRF then measures the energy level and quantity of returning x-ray photons to determine the quantity of lead (or other element of interest) present at the sample point.

The instrument used for this inspection was an Innov-X Inspector XRF Lead Analyzer, serial # M11820. Samples were collected in “Lead Paint Analysis” mode requiring no substrate correction sampling (paint chip sampling).

Calibration checks of the instrument were performed using NIST Standard Reference Material (SRM) 2573 ($1.040 \text{ mg/cm}^2 \pm 0.064$) and 2570 (0.0 mg/cm^2) before each sampling activity, every 4 hours during sampling, and after each sampling activity. Calibration checks were satisfactory, indicating the instrument was functioning properly and in calibration.

5.0 SURVEY RESULTS

5.1 Asbestos

Table 3 (below) contains an inventory of the building materials sampled for asbestos throughout the plumbing renovation pathway, including all common areas and units 111, 113, 211, 213, 311 and 313 in the Eastridge House located at 120 West Sunset Way in Issaquah, Washington. The location column

identifies all locations in the building where the homogenous materials were identified. Actual sample locations are identified in the attached site maps.

Table 3 - Building Materials Sampled for Asbestos by RGA throughout the Plumbing Renovation Pathway, including all common areas and units 111, 113, 211, 213, 311 and 313 in the Eastridge House located at 120 West Sunset Way in Issaquah, Washington.

Sample ID	Material Description	Location	Asbestos Content	Friability
EH-01A, 01B, 01C	Texturing on gypsum wallboard walls and ceilings	Throughout building hallways and common areas	2% Chrysotile	Friable
EH-02A, 02B, 02C	Gypsum wallboard walls and ceilings with joint compound	Throughout building hallways and common areas	Layer 2 and 4: Joint compound – 2% Chrysotile Wall unit as a whole – <1% Chrysotile	Friable
EH-03A	Light green wallpaper and adhesive on gypsum wallboard	1 st floor hallway	No Asbestos Detected	Friable
EH-04A, 04C	Beige mastic associated with 4" tan cove base	Throughout building	No Asbestos Detected	Non-Friable
EH-05A, 05B	Mastic under blue/tan carpet	Throughout building	No Asbestos Detected	Non-Friable
EH-06A, 06B	2'X4' Fissure suspended ceiling tiles	Throughout hallways in building	No Asbestos Detected	Friable
EH-07A, 07B	Brown mastic associated with 4" tan cove base	1 st floor men's and women's restroom, common kitchen and throughout 2 nd floor common areas	Layer 1: Brown adhesive – <1% Tremolite	Non-Friable
EH-08B, 08C	Beige/tan speckled vinyl sheet flooring and mastic	1 st floor men's and women's restroom, common kitchen, 2 nd and 3 rd floor laundry rooms	Layer 2: Black mastic – 3% Chrysotile	Non-Friable
EH-09A	White caulking	1 st floor men's restroom	No Asbestos Detected	Non-Friable
EH-10A, 10C	Fiberglass piping insulation with cloth wrap and bridging	Throughout building	No Asbestos Detected	Friable
EH-11A, 11B	Mudded piping elbows	Throughout building	3% Amosite	Friable
EH-12A	Black fiberglass batting insulation	Throughout building – interior walls	No Asbestos Detected	Friable
EH-13A	Black gaskets at sink drain	1 st floor men's restroom	No Asbestos Detected	Non-Friable
EH-14A	Black sink undercoating with gasket and putty	1 st floor Common Kitchen	2% Chrysotile	Non-Friable
EH-15A	Gray sink undercoating with gasket and putty	1 st floor Community Area	5% Chrysotile	Non-Friable
EH-16A, 16B	12"X12" Beige/tan streaks vinyl floor tile and mastic	1 st floor chair storage, 2 nd floor janitor's closet and 3 rd floor janitor's closet	Tile – 2% Chrysotile Black mastic – 2% Chrysotile	Non-Friable

Sample ID	Material Description	Location	Asbestos Content	Friability
EH-17A	Gypsum wallboard and joint compound	Throughout 1 st floor	Layer 2 and 4: Joint compound – 2% Chrysotile Wall unit as a whole – <1% Chrysotile Layer 7: Brown adhesive – <1% Tremolite	Friable Non-Friable
EH-17C	Gypsum wallboard and joint compound	Throughout 1 st floor	Layer 2 and 4: Joint compound – 2% Chrysotile Wall unit as a whole – <1% Chrysotile	Friable
EH-18A	Mastic associated with 4" brown cove base	1 st floor garbage room	No Asbestos Detected	Non-Friable
EH-19A, 19B	Texturing on gypsum wallboard walls and ceilings	Throughout 1 st floor	2% Chrysotile	Friable
EH-20A	Gasket at sink drain	1 st and 2 nd floor janitor's closet	No Asbestos Detected	Non-Friable
EH-21A, 21B	Mastic associated with 4" tan cove base	1 st floor – Units 111 and 113 (assumed in all units on floor)	Layer 2: Brown adhesive – <1% Tremolite Layer 3: Joint compound – 2% Chrysotile	Non-Friable Friable
EH-22A, 22B	Beige/gray tile pattern vinyl sheet flooring and mastic	1 st floor – Units 111 and 113 bathroom and kitchen (assumed in all units on floor)	No Asbestos Detected	Friable
EH-23A, 23B	Gypsum wallboard and joint compound	1 st floor – Units 111 and 113 (assumed in all units on floor)	Layer 2 and 4: Joint compound – 2% Chrysotile Wall unit as a whole – <1% Chrysotile	Friable
EH-24A, 24B	Texturing on gypsum wallboard walls and ceilings	1 st floor – Unit 111 bedroom closet and 113 bathroom (assumed in all units on floor)	2% Chrysotile	Friable
EH-25A, 25B	Gray sink undercoating with gasket and putty	1 st floor – Units 111 and 113 kitchen (assumed in all units on floor)	No Asbestos Detected	Non-Friable
EH-26A	Pink wallpaper and adhesive on gypsum wallboard	2 nd floor hallway	No Asbestos Detected	Friable
EH-27A, 27B	Gypsum wallboard and joint compound	2 nd and 3 rd floor laundry rooms	Layer 2 and 4: Joint compound – 2% Chrysotile Wall unit as a whole – <1% Chrysotile	Friable

Sample ID	Material Description	Location	Asbestos Content	Friability
EH-28A, 28B	Texturing on gypsum wallboard walls and ceilings	2 nd and 3 rd floor laundry rooms	Layers 2 and 4 – 2% Chrysotile	Friable
EH-29A	Mastic associated with 4" beige cove base	2 nd floor – Unit 211 bathroom (assumed in all units on floor)	Layer 1: Brown adhesive – <1% Tremolite Layer 3: Joint compound – 2% Chrysotile	Non-Friable Friable
EH-30A	Beige/gray tile pattern vinyl sheet flooring and mastic over pebble pattern vinyl sheet flooring and mastic	2 nd floor – Unit 211 bathroom (assumed in all units on floor)	30% Chrysotile	Friable
EH-31A, 31B	Gypsum wallboard and joint compound	2 nd floor – Units 211 and 213 bedroom closet (assumed in all units on floor)	Layer 2 and 4: Joint compound – 2% Chrysotile Wall unit as a whole – <1% Chrysotile	Friable
EH-32A, 32B	Texturing on gypsum wallboard walls and ceilings	2 nd floor – Units 211 and 213 bedroom closet (assumed in all units on floor)	2% Chrysotile	Friable
EH-33A	Gray sink undercoating with gasket and putty	2 nd floor – Unit 211 kitchen (assumed in all units on floor)	No Asbestos Detected	Non-Friable
EH-34A, 34B	Mastic associated with 4" olive green cove base	2 nd and 3 rd floors – Units 213 and 311 bathroom (assumed in all units on floors)	Layer 1: Brown adhesive – <1% Tremolite	Non-Friable
EH-35A, 35B	Green mosaic pattern vinyl sheet flooring and mastic	2 nd and 3 rd floors – Units 213 and 311 bathroom (assumed in all units on floors)	30% Chrysotile	Friable
EH-36A	Black sink undercoating with gasket and putty	2 nd floor – Unit 213 kitchen (assumed in all units on floor)	2% Chrysotile	Non-Friable
EH-37A, 37B	Gypsum wallboard and joint compound	3 rd floor – Units 311 and 313 bedroom closet (assumed in all units on floors)	Layer 2 and 4: Joint compound – 2% Chrysotile Wall unit as a whole – <1% Chrysotile	Friable
EH-38A, 38B	Texturing on gypsum wallboard walls and ceilings	3 rd floor – Units 311 and 313 bedroom closet (assumed in all units on floors)	2% Chrysotile	Friable
EH-39A	Mastic associated with 4" tan cove base	3 rd floor – Unit 313 bathroom (assumed in all units on floors)	Layer 2: Brown adhesive – <1% Tremolite	Non-Friable

Sample ID	Material Description	Location	Asbestos Content	Friability
EH-40A	Beige/gray vinyl sheet flooring and mastic over pebble pattern vinyl sheet flooring and mastic	3 rd floor – Unit 313 bathroom (assumed in all units on floors)	30% Chrysotile	Friable
EH-41A, 41B	Black sink undercoating with gasket and putty	3 rd floor – Unit 313 kitchen (assumed in all units on floors)	2% Chrysotile	Non-Friable
EH-42A	Blue wallpaper and adhesive on gypsum wallboard	Throughout 3 rd floor	No Asbestos Detected	Friable

5.2 XRF Testing Results

Table 4 contains the XRF testing results found throughout the plumbing renovation pathway, including all common areas and units 111, 113, 211, 213, 311 and 313 in the Eastridge House located at 120 West Sunset Way in Issaquah, Washington. **Bolded** readings indicate lead-based paint or coating and *Italicized bold* readings indicate lead-containing paint or coating.

Table 4 – XRF Results

Date	Reading	Lead Based	Lead Containing	*Pb	Pb +/-	Unit / Bldg.	Room Type	Side	Component	Substrate	Color	Condition
15-Feb-13	1	NA	NA					Standard				
15-Feb-13	2	NA	NA	0	0	Eastside House	Calibration	Calibration		Calibration	White	Calibration
15-Feb-13	3	NA	NA	1.01	0.03	Eastside House	Calibration	Calibration		Calibration	Red	Calibration
15-Feb-13	4	NA	NA	1.15	0.08	Eastside House	Calibration	Calibration		Calibration	Red	Calibration
15-Feb-13	5	NA	NA	1.01	0.03	Eastside House	Calibration	Calibration		Calibration	Red	Calibration
15-Feb-13	6	Negative	Negative	0	0	Eastside House	Floor 1 - Hallway	East	Wall	Drywall	Off White	Intact
15-Feb-13	7	Negative	Negative	0	0	Eastside House	Floor 1 - Hallway	East	Wall	Drywall	Off White	Intact
15-Feb-13	8	Negative	Negative	0	0	Eastside House	Floor 1 - Hallway	Ceiling	Ceiling	Drywall	White	Intact
15-Feb-13	9	Negative	Positive	0.04	0.02	Eastside House	Common Men's Restroom	West	Wall	Drywall	White	Intact
15-Feb-13	10	Negative	Negative	0	0	Eastside House	Common Men's Restroom	Ceiling	Ceiling	Drywall	White	Intact
15-Feb-13	11	Negative	Positive	0.02	0.02	Eastside House	Common Kitchen	South	Wall	Drywall	White	Intact
15-Feb-13	12	Negative	Positive	0.03	0.02	Eastside House	Common Kitchen	South	Wall	Drywall	White	Intact
15-Feb-13	13	Negative	Negative	0	0	Eastside House	Chair Storage	East	Wall	Drywall	White	Intact

Date	Reading	Lead Based	Lead Containing	*Pb	Pb +/-	Unit / Bldg.	Room Type	Side	Component	Substrate	Color	Condition
15-Feb-13	14	NA	NA					Standard				
15-Feb-13	15	Negative	Negative	0	0	Eastside House	Garbage Room	Ceiling	Ceiling	Drywall	White	Intact
15-Feb-13	16	Negative	Negative	0	0	Eastside House	Floor 1 - Janitor's Closet	Ceiling	Ceiling	Drywall	White	Intact
15-Feb-13	17	NA	NA					Standard				
15-Feb-13	18	Negative	Positive	0.1	0.08	Eastside House	Unit 111 - Kitchen	East	Wall	Drywall	White	Intact
15-Feb-13	19	Negative	Negative	0	0	Eastside House	Unit 111 - Bathroom	North	Wall	Drywall	White	Intact
15-Feb-13	20	Negative	Negative	0	0	Eastside House	Unit 113 - Bathroom	North	Wall	Drywall	White	Intact
15-Feb-13	21	Negative	Negative	0	0	Eastside House	Unit 113 - Bathroom	North	Wall	Drywall	White	Intact
15-Feb-13	22	Negative	Negative	0	0	Eastside House	Unit 113 - Kitchen	West	Wall	Drywall	White	Intact
15-Feb-13	23	Negative	Negative	0	0.01	Eastside House	Floor 2 - Laundry Room	East	Wall	Drywall	White	Intact
15-Feb-13	24	Negative	Positive	0.01	0.01	Eastside House	Floor 2 - Laundry Room	Ceiling	Ceiling	Drywall	White	Intact
15-Feb-13	25	Negative	Negative	0	0	Eastside House	Floor 2 - Hallway	East	Wall	Drywall	Off White	Intact
15-Feb-13	26	Negative	Negative	0	0	Eastside House	Floor 2 - Hallway	East	Wall	Drywall	Off White	Intact
15-Feb-13	27	Negative	Negative	0	0	Eastside House	Floor 2 - Hallway	Ceiling	Ceiling	Drywall	White	Intact
15-Feb-13	28	Negative	Positive	0.02	0.02	Eastside House	Floor 2 - Janitor's Closet	Ceiling	Ceiling	Drywall	White	Intact
15-Feb-13	29	Negative	Positive	0.01	0.01	Eastside House	Floor 2 - Janitor's Closet	West	Wall	Drywall	White	Intact

Date	Reading	Lead Based	Lead Containing	*Pb	Pb +/-	Unit / Bldg.	Room Type	Side	Component	Substrate	Color	Condition
15-Feb-13	30	Negative	Negative	0	0	Eastside House	Unit 211 - Bathroom	North	Wall	Drywall	White	Intact
15-Feb-13	31	Negative	Positive	0.02	0.03	Eastside House	Unit 211 - Kitchen	Ceiling	Ceiling	Drywall	White	Intact
15-Feb-13	32	Negative	Positive	0.01	0.02	Eastside House	Unit 211 - Kitchen	North	Wall	Drywall	White	Intact
15-Feb-13	33	Negative	Negative	0	0	Eastside House	Unit 213 - Kitchen	South	Wall	Drywall	White	Intact
15-Feb-13	34	Negative	Negative	0	0	Eastside House	Unit 213 - Bathroom	North	Wall	Drywall	White	Intact
15-Feb-13	35	Negative	Negative	0	0	Eastside House	Unit 213 - Bedroom Closet	North	Wall	Drywall	White	Intact
15-Feb-13	36	NA	NA					Standard				
15-Feb-13	37	Negative	Negative	0	0	Eastside House	Unit 313 - Bedroom Closet	North	Wall	Drywall	White	Peeling
15-Feb-13	38	Negative	Negative	0	0	Eastside House	Unit 313 - Bathroom	North	Wall	Drywall	White	Peeling
15-Feb-13	39	Negative	Positive	0.02	0.04	Eastside House	Unit 313 - Kitchen	South	Wall	Drywall	White	Intact
15-Feb-13	40	Negative	Positive	0.03	0.03	Eastside House	Unit 311 - Kitchen	South	Wall	Drywall	White	Intact
15-Feb-13	41	Negative	Negative	0	0	Eastside House	Unit 311 - Bedroom Closet	North	Wall	Drywall	White	Intact
15-Feb-13	42	Negative	Positive	0.02	0.02	Eastside House	Unit 311 - Bathroom	North	Wall	Drywall	White	Intact
15-Feb-13	43	Positive	Positive	1	0.02	Eastside House	Floor 3 - Laundry Room	West	Wall	Drywall	White	Intact
15-Feb-13	44	Positive	Positive	1	0.14	Eastside House	Floor 3 - Laundry Room	West	Wall	Drywall	White	Intact
15-Feb-13	45	Positive	Positive	1	0.02	Eastside House	Floor 3 - Laundry Room	Ceiling	Ceiling	Drywall	White	Intact

Date	Reading	Lead Based	Lead Containing	*Pb	Pb +/-	Unit / Bldg.	Room Type	Side	Component	Substrate	Color	Condition
15-Feb-13	46	Negative	Negative	0	0	Eastside House	Floor 3 - Hallway	Ceiling	Ceiling	Drywall	White	Intact
15-Feb-13	47	Negative	Negative	0	0	Eastside House	Floor 3 - Hallway	East	Wall	Drywall	White	Intact
15-Feb-13	48	Negative	Positive	0.03	0.02	Eastside House	Floor 3 - Janitor's Closet	West	Wall	Drywall	White	Intact
15-Feb-13	49	Negative	Positive	0.02	0.02	Eastside House	Floor 3 - Janitor's Closet	Ceiling	Ceiling	Drywall	White	Intact
15-Feb-13	50	NA	NA					Standard				
15-Feb-13	51	Negative	Positive	0.07	0.03	Eastside House	Exterior	East	Wall	Wood	Brown	Intact
15-Feb-13	52	Negative	Positive	0.09	0.03	Eastside House	Exterior	East	Wall	Wood	Brown	Intact
15-Feb-13	53	NA	NA	1.09	0.05	Eastside House	Calibration	Calibration		Calibration	Red	Calibration
15-Feb-13	54	NA	NA	1.14	0.06	Eastside House	Calibration	Calibration		Calibration	Red	Calibration
15-Feb-13	55	NA	NA	1.03	0.03	Eastside House	Calibration	Calibration		Calibration	Red	Calibration
15-Feb-13	56	NA	NA	0	0	Eastside House	Calibration	Calibration		Calibration	White	Calibration

6.0 CONCLUSIONS AND RECOMENDATIONS

Extreme caution should be used during any renovation activities to ensure that additional materials are not uncovered. This report should be presented to any contractor or subcontractor participating in the plumbing renovation at the Eastridge House located at 120 West Sunset Way in Issaquah, Washington. In the event that additional materials are discovered, the material should be sampled and analyzed to determine if it contains asbestos prior to disturbance.

6.1 Asbestos

Asbestos-containing materials are required to be removed and disposed of in accordance with Washington State Regulations prior to any demolition, renovation, or remodeling that would disturb these materials. Washington State Department of Labor and Industries and PSCAA require that the abatement be performed using Certified Asbestos Workers under the direct on-site supervision of a Certified Asbestos Supervisor.

Materials that contain <1% asbestos (i.e. gypsum wall board and joint compound materials) are not regulated for disposal purposes. However, removal of materials containing <1% asbestos is considered an unclassified asbestos operation by OSHA and WISHA. Unclassified asbestos operations cover employees likely to be exposed in excess of the airborne asbestos permissible exposure limit (PEL), and who are performing operations not covered by Class I through IV. For construction work involving unclassified asbestos operations, the applicable requirements will include: an airborne exposure assessment, use of vacuum cleaners equipped with HEPA filters, use of wet methods and prompt cleanup of debris, use of respirators and protective clothing, training, and record keeping. The requirements for the removal of <1% wallboard systems are addressed in WRD 23.30, which is attached for your convenience.

RGA recommends that a Certified Asbestos Project Designer design any asbestos abatement job to ensure that the job is completed according to regulation standards.

6.2 Lead

Based on XRF testing, 3 of the 4 paint coatings tested by RGA contained detectable and reportable quantities of lead and 2 of them contained lead-based paint throughout the plumbing renovation pathway in the Eastridge House located at 120 West Sunset Way in Issaquah, Washington. The presence of lead in coatings raises concerns about worker and environmental protection. Special precautions will need to be taken to renovate the building. The recommendations are addressed in the Regulatory Compliance Section above.

7.0 LIMITS OF SURVEY

This report does not represent all conditions at the subject site as it only reflects the information gathered from the applicable and accessible plumbing renovation pathway, including common areas and units 111, 111, 113, 211, 213, 311 and 313 in the Eastridge House as outlined by the client. RGA's observations and sampling included all accessible interior areas and observation or sampling of inaccessible areas such as behind closed walls or within ductwork was not within the scope of RGA's work and was not performed.

This report was prepared pursuant to the contract RGA has with the client. Unauthorized reliance on or use of this report, including any of its information or conclusions, will be at third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party. Contact us at 206-281-8858 with any questions.

Attachment 1

RGA Asbestos Laboratory Results



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-01A 13004153	L-1 Beige paint	No Asbestos Detected		100% Paint
	L-2 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: First positive stop.			
	L-3 Tan fibrous material	No Asbestos Detected	100% Cellulose	
	L-4 White blocky crystalline material	No Asbestos Detected		80% Gypsum Filler and Binder 20% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin
Received By: Abdulrazzak Mansur
Reviewed By: Aruna Turaga

2/19/2013
2/27/2013

Analyzed By: Allison Reagan

2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-02A 13004156	L-1 Beige paint	No Asbestos Detected		100% Paint
	L-2 White crystalline material	2% Chrysotile	13% Mineral Wool	85% Calcite Filler and Binder
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
	L-3 White fibrous material	No Asbestos Detected	100% Cellulose	
	L-4 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
	L-5 Tan fibrous material	No Asbestos Detected	100% Cellulose	
	L-6 White blocky crystalline material	No Asbestos Detected		80% Gypsum Filler and Binder 20% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin
Received By: Abdulrazzak Mansur
Reviewed By: Aruna Turaga

2/19/2013
2/27/2013

Analyzed By: Allison Reagan
2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-02B 13004157	L-1 Beige paint	No Asbestos Detected		100% Paint
	L-2 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
	L-3 White fibrous material	No Asbestos Detected	100% Cellulose	
	L-4 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
	L-5 Tan fibrous material	No Asbestos Detected	100% Cellulose	
	L-6 White blocky crystalline material	No Asbestos Detected		80% Gypsum Filler and Binder 20% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin
Received By: Abdulrazzak Mansur
Reviewed By: Aruna Turaga

2/19/2013
2/27/2013

Analyzed By: Allison Reagan
2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-02C 13004158	L-1 Beige paint	No Asbestos Detected		100% Paint
	L-2 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
	L-3 White fibrous material	No Asbestos Detected	100% Cellulose	
	L-4 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
EH-03A 13004159	L-5 Tan fibrous material	No Asbestos Detected	100% Cellulose	
	L-6 Brown blocky crystalline material	No Asbestos Detected		80% Gypsum Filler and Binder 20% Mineral Particles
EH-04A 13004160	White fibrous material	No Asbestos Detected	35% Cellulose	50% Resin and Binder 15% Filler and Binder
	L-1 Beige adhesive	No Asbestos Detected		80% Resin and Binder 20% Mineral Particles
	L-2 White fibrous material	No Asbestos Detected	35% Cellulose	50% Resin and Binder 15% Filler and Binder

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin
Received By: Abdulrazzak Mansur
Reviewed By: Aruna Turaga

2/19/2013
2/27/2013

Analyzed By: Allison Reagan
2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-04C 13004162	Beige adhesive	No Asbestos Detected		80% Resin and Binder 20% Mineral Particles
EH-05A 13004163	L-1 Multi-color fibrous material	No Asbestos Detected	100% Synthetic	
	L-2 White plastic weave	No Asbestos Detected		100% Plastic Particles
	L-3 Yellow adhesive	No Asbestos Detected		90% Resin and Binder 10% Mineral Particles
EH-05B 13004164	L-1 Multi-color fibrous material	No Asbestos Detected	100% Synthetic	
	L-2 White plastic weave	No Asbestos Detected		100% Plastic Particles
	L-3 White adhesive	No Asbestos Detected		90% Resin and Binder 10% Mineral Particles
EH-06A 13004166	L-1 White paint	No Asbestos Detected		100% Paint
	L-2 Tan fibrous material	No Asbestos Detected	50% Mineral Wool 30% Cellulose	20% Filler and Binder

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin

Received By: Abdulrazzak Mansur 2/19/2013

Reviewed By: Aruna Turaga 2/27/2013

Analyzed By: Allison Reagan 2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-06B 13004167	L-1 White paint	No Asbestos Detected		100% Paint
	L-2 Tan fibrous material	No Asbestos Detected	50% Mineral Wool 30% Cellulose	20% Filler and Binder
EH-07A 13004168	L-1 Brown adhesive	<1% Tremolite		85% Resin and Binder >14% Mineral Particles
	L-2 Beige adhesive	No Asbestos Detected		90% Resin and Binder 10% Mineral Particles
EH-07B 13004169	Brown adhesive	<1% Tremolite		85% Resin and Binder >14% Mineral Particles
EH-08B 13004171	L-1 Beige vinyl tile	No Asbestos Detected		50% Vinyl Filler and Binder 40% Calcite Filler and Binder 10% Mineral Particles
	L-2 Black asphaltic material Layer Comments: First positive stop.	3% Chrysotile		90% Asphalt Filler and Binder 7% Mineral Particles
EH-09A 13004173	White resinous material	No Asbestos Detected		85% Resin and Binder 15% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin
Received By: Abdulrazzak Mansur
Reviewed By: Aruna Turaga

2/19/2013
2/27/2013

Analyzed By: Allison Reagan
2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis

(EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-10A 13004174	L-1 White fibrous material	No Asbestos Detected	100% Cellulose	
	L-2 White fibrous weave	No Asbestos Detected	100% Glass Fiber	
	L-3 Silver foil	No Asbestos Detected		100% Foil
	L-4 Yellow adhesive	No Asbestos Detected		95% Resin and Binder 5% Filler and Binder
	L-5 Yellow fibrous material	No Asbestos Detected	100% Fiberglass	
EH-10C 13004176	L-1 White fibrous material	No Asbestos Detected	100% Cellulose	
	L-2 White fibrous weave	No Asbestos Detected	100% Glass Fiber	
	L-3 Silver foil	No Asbestos Detected		100% Foil
	L-4 Yellow adhesive	No Asbestos Detected		95% Resin and Binder 5% Filler and Binder
	L-5 Yellow fibrous material	No Asbestos Detected	100% Fiberglass	

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin

Received By: Abdulrazzak Mansur 2/19/2013

Reviewed By: Aruna Turaga 2/27/2013

Analyzed By: Allison Reagan 2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-11A 13004177	L-1 White fibrous weave	No Asbestos Detected	100% Cellulose	
	L-2 White powdery material Layer Comments: First positive stop.	3% Amosite		75% Calcite Filler and Binder 22% Mineral Particles
EH-12A 13004179	L-1 Black/tan fibrous asphaltic material	No Asbestos Detected	60% Cellulose	40% Asphalt Filler and Binder
	L-2 Black fibrous material	No Asbestos Detected	100% Fiberglass	
EH-13A 13004180	Black hard rubbery material	No Asbestos Detected		60% Vinyl Filler and Binder 30% Calcite Filler and Binder 10% Mineral Particles
EH-14A 13004181	L-1 Black asphaltic material	2% Chrysotile		85% Asphalt Filler and Binder 13% Mineral Particles
	L-2 Beige resinous material	No Asbestos Detected		85% Resin and Binder 15% Mineral Particles
	L-3 Black fibrous material	No Asbestos Detected	100% Cellulose	

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin

Received By: Abdulrazzak Mansur 2/19/2013

Reviewed By: Aruna Turaga 2/27/2013

Analyzed By: Allison Reagan 2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-15A 13004182	L-1 Gray resinous material	No Asbestos Detected		85% Resin and Binder 15% Mineral Particles
	L-2 Beige resinous material	No Asbestos Detected		85% Resin and Binder 15% Mineral Particles
	L-3 Gray resinous fibrous material	5% Chrysotile		85% Resin and Binder 10% Mineral Particles
EH-16A 13004183	L-1 Beige vinyl tile	2% Chrysotile		50% Vinyl Filler and Binder 40% Calcite Filler and Binder 8% Mineral Particles
	Layer Comments: First positive stop.			
	L-2 Black asphaltic material	2% Chrysotile		90% Asphalt Filler and Binder 8% Mineral Particles
	Layer Comments: First positive stop.			

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin
Received By: Abdulrazzak Mansur
Reviewed By: Aruna Turaga

2/19/2013
2/27/2013

Analyzed By: Allison Reagan
2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-17A 13004186	L-1 Beige paint	No Asbestos Detected		100% Paint
	L-2 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
	L-3 White fibrous material	No Asbestos Detected	100% Cellulose	
	L-4 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
	L-5 Tan fibrous material	No Asbestos Detected	100% Cellulose	
	L-6 White blocky crystalline material	No Asbestos Detected		80% Gypsum Filler and Binder 20% Mineral Particles
	L-7 Brown adhesive	<1% Tremolite		85% Resin and Binder >14% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin

Received By: Abdulrazzak Mansur 2/19/2013

Reviewed By: Aruna Turaga 2/27/2013

Analyzed By: Allison Reagan 2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-17C 13004188	L-1 Beige paint	No Asbestos Detected		100% Paint
	L-2 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
	L-3 White fibrous material	No Asbestos Detected	100% Cellulose	
	L-4 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	L-5 Tan fibrous material	No Asbestos Detected	100% Cellulose	
EH-18A 13004189	L-6 White blocky crystalline material	No Asbestos Detected		80% Gypsum Filler and Binder 20% Mineral Particles
	Beige adhesive	No Asbestos Detected		85% Resin and Binder 15% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin
Received By: Abdulrazzak Mansur
Reviewed By: Aruna Turaga

2/19/2013
2/27/2013

Analyzed By: Allison Reagan
2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-19A 13004190	L-1 White paint	No Asbestos Detected		100% Paint
	L-2 Beige crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: First positive stop.			
EH-20A 13004192	L-3 Tan fibrous material	No Asbestos Detected	100% Cellulose	
	Black hard rubbery material	No Asbestos Detected		60% Vinyl Filler and Binder 30% Calcite Filler and Binder 10% Mineral Particles
EH-21A 13004193	L-1 Yellow adhesive	No Asbestos Detected		85% Resin and Binder 15% Mineral Particles
	L-2 Brown adhesive	<1% Tremolite		85% Resin and Binder >14% Mineral Particles
	L-3 Beige crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
EH-21B 13004194	L-1 White adhesive	No Asbestos Detected		80% Resin and Binder 20% Mineral Particles
	L-2 Beige crystalline material	No Asbestos Detected		85% Calcite Filler and Binder 15% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin
Received By: Abdulrazzak Mansur
Reviewed By: Aruna Turaga

2/19/2013
2/27/2013

Analyzed By: Allison Reagan
2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-22A 13004195	L-1 Beige vinyl sheeting	No Asbestos Detected		60% Vinyl Filler and Binder 30% Calcite Filler and Binder 10% Mineral Particles
	L-2 Gray fibrous backing	No Asbestos Detected	60% Cellulose	40% Filler and Binder
	L-3 White adhesive	No Asbestos Detected		90% Resin and Binder 10% Mineral Particles
EH-22B 13004196	L-1 Gray vinyl sheeting	No Asbestos Detected		60% Vinyl Filler and Binder 30% Calcite Filler and Binder 10% Mineral Particles
	L-2 Gray fibrous backing	No Asbestos Detected	60% Cellulose	40% Filler and Binder
	L-3 Yellow adhesive	No Asbestos Detected		90% Resin and Binder 10% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin

Received By: Abdulrazzak Mansur 2/19/2013

Reviewed By: Aruna Turaga 2/27/2013

Analyzed By: Allison Reagan 2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-23A 13004197	L-1 White paint	No Asbestos Detected		100% Paint
	L-2 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
	L-3 White fibrous material	No Asbestos Detected	100% Cellulose	
	L-4 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
EH-23B 13004198	L-5 Tan fibrous material	No Asbestos Detected	100% Cellulose	
	L-6 White blocky crystalline material	No Asbestos Detected		80% Gypsum Filler and Binder 20% Mineral Particles
	L-1 White crystalline material	No Asbestos Detected		85% Calcite Filler and Binder 15% Mineral Particles
	L-2 Tan fibrous material	No Asbestos Detected	100% Cellulose	
	L-3 White blocky crystalline material	No Asbestos Detected		80% Gypsum Filler and Binder 20% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin

Received By: Abdulrazzak Mansur 2/19/2013

Reviewed By: Aruna Turaga 2/27/2013

Analyzed By: Allison Reagan 2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-24A 13004199	L-1 White paint	No Asbestos Detected		100% Paint
	L-2 Beige crystalline material Layer Comments: First positive stop.	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	L-3 Tan fibrous material	No Asbestos Detected	100% Cellulose	
	L-4 White blocky crystalline material	No Asbestos Detected		80% Gypsum Filler and Binder 20% Mineral Particles
EH-25A 13004201	L-1 Gray resinous material	No Asbestos Detected		85% Resin and Binder 15% Mineral Particles
	L-2 Brown fibrous material	No Asbestos Detected	100% Cellulose	
	L-3 Beige resinous material	No Asbestos Detected		85% Resin and Binder 15% Mineral Particles
EH-25B 13004202	L-1 Gray resinous material	No Asbestos Detected		85% Resin and Binder 15% Mineral Particles
	L-2 Black hard rubbery material	No Asbestos Detected		60% Vinyl Filler and Binder 30% Calcite Filler and Binder 10% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin

Received By: Abdulrazzak Mansur 2/19/2013

Reviewed By: Aruna Turaga 2/27/2013

Analyzed By: Allison Reagan 2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-26A 13004203	L-1 White fibrous material	No Asbestos Detected	35% Cellulose	50% Resin and Binder 15% Filler and Binder
	L-2 Beige adhesive	No Asbestos Detected		90% Resin and Binder 10% Mineral Particles
EH-27A 13004204	L-1 White paint	No Asbestos Detected		100% Paint
	L-2 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
	L-3 White fibrous material	No Asbestos Detected	100% Cellulose	
	L-4 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
	L-5 Tan fibrous material	No Asbestos Detected	100% Cellulose	
	L-6 White blocky crystalline material	No Asbestos Detected		80% Gypsum Filler and Binder 20% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin
Received By: Abdulrazzak Mansur
Reviewed By: Aruna Turaga

2/19/2013
2/27/2013

Analyzed By: Allison Reagan
2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-27B 13004205	L-1 White paint	No Asbestos Detected		100% Paint
	L-2 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
	L-3 White fibrous material	No Asbestos Detected	100% Cellulose	
	L-4 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
	L-5 Tan fibrous material	No Asbestos Detected	100% Cellulose	
	L-6 White blocky crystalline material	No Asbestos Detected		80% Gypsum Filler and Binder 20% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin

Received By: Abdulrazzak Mansur 2/19/2013

Reviewed By: Aruna Turaga 2/27/2013

Analyzed By: Allison Reagan 2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-28A 13004206	L-1 White paint	No Asbestos Detected		100% Paint
	L-2 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	L-3 White fibrous material	No Asbestos Detected	100% Cellulose	
	L-4 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
EH-28B 13004207	L-1 White paint	No Asbestos Detected		100% Paint
	L-2 Beige crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
EH-29A 13004208	L-1 Brown adhesive	<1% Tremolite		85% Resin and Binder >14% Mineral Particles
	L-2 Beige adhesive	No Asbestos Detected		80% Resin and Binder 20% Mineral Particles
	L-3 Beige crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin
Received By: Abdulrazzak Mansur
Reviewed By: Aruna Turaga

2/19/2013
2/27/2013

Analyzed By: Allison Reagan
2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-30A 13004209	L-1 Beige vinyl sheeting	No Asbestos Detected		60% Vinyl Filler and Binder 30% Calcite Filler and Binder 10% Mineral Particles
	L-2 Gray fibrous backing	No Asbestos Detected	60% Cellulose	40% Filler and Binder
	L-3 Beige adhesive	No Asbestos Detected		85% Resin and Binder 15% Mineral Particles
	L-4 Green vinyl sheeting	No Asbestos Detected		60% Vinyl Filler and Binder 30% Calcite Filler and Binder 10% Mineral Particles
	L-5 Gray fibrous backing	30% Chrysotile	30% Cellulose	40% Filler and Binder
	L-6 Beige adhesive	No Asbestos Detected		85% Resin and Binder 15% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin

Received By: Abdulrazzak Mansur 2/19/2013

Reviewed By: Aruna Turaga 2/27/2013

Analyzed By: Allison Reagan 2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-31A 13004210	L-1 White paint	No Asbestos Detected		100% Paint
	L-2 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
	L-3 White fibrous material	No Asbestos Detected	100% Cellulose	
	L-4 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
	L-5 Tan fibrous material	No Asbestos Detected	100% Cellulose	
	L-6 White blocky crystalline material	No Asbestos Detected		80% Gypsum Filler and Binder 20% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin

Received By: Abdulrazzak Mansur 2/19/2013

Reviewed By: Aruna Turaga 2/27/2013

Analyzed By: Allison Reagan 2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-31B 13004211	L-1 White paint	No Asbestos Detected		100% Paint
	L-2 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
	L-3 White fibrous material	No Asbestos Detected	100% Cellulose	
	L-4 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
EH-32A 13004212	L-5 Tan fibrous material	No Asbestos Detected	100% Cellulose	
	L-6 White blocky crystalline material	No Asbestos Detected		80% Gypsum Filler and Binder 20% Mineral Particles
	L-1 White paint	No Asbestos Detected		100% Paint
	L-2 Beige crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: First positive stop.			
	L-3 Tan fibrous material	No Asbestos Detected	100% Cellulose	

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin
Received By: Abdulrazzak Mansur
Reviewed By: Aruna Turaga

2/19/2013
2/27/2013

Analyzed By: Allison Reagan
2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-33A 13004214	L-1 White resinous fibrous material	No Asbestos Detected	20% Cellulose	65% Resin and Binder 15% Mineral Particles
	L-2 Beige resinous material	No Asbestos Detected		85% Resin and Binder 15% Mineral Particles
	L-3 Brown fibrous material	No Asbestos Detected	100% Cellulose	
EH-34A 13004215	Brown adhesive	<1% Tremolite		85% Resin and Binder >14% Mineral Particles
EH-34B 13004216	Brown adhesive	<1% Tremolite		85% Resin and Binder >14% Mineral Particles
EH-35A 13004217	L-1 Green vinyl sheeting	No Asbestos Detected		60% Vinyl Filler and Binder 30% Calcite Filler and Binder 10% Mineral Particles
	L-2 Gray fibrous backing	30% Chrysotile	30% Cellulose	40% Filler and Binder
	Layer Comments: First positive stop.			
	L-3 Yellow adhesive	No Asbestos Detected		90% Resin and Binder 10% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin
Received By: Abdulrazzak Mansur
Reviewed By: Aruna Turaga

2/19/2013
2/27/2013

Analyzed By: Allison Reagan
2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-36A 13004219	L-1 Black asphaltic material	2% Chrysotile		90% Asphalt Filler and Binder 8% Mineral Particles
	L-2 Black fibrous material	No Asbestos Detected	100% Cellulose	
	L-3 Beige resinous material	No Asbestos Detected		85% Resin and Binder 15% Mineral Particles
EH-37A 13004220	L-1 White paint	No Asbestos Detected		100% Paint
	L-2 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
	L-3 White fibrous material	No Asbestos Detected	100% Cellulose	
	L-4 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
	L-5 Tan fibrous material	No Asbestos Detected	100% Cellulose	
	L-6 White blocky crystalline material	No Asbestos Detected		80% Gypsum Filler and Binder 20% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin

Received By: Abdulrazzak Mansur 2/19/2013

Reviewed By: Aruna Turaga 2/27/2013

Analyzed By: Allison Reagan 2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-37B 13004221	L-1 White paint	No Asbestos Detected		100% Paint
	L-2 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
	L-3 White fibrous material	No Asbestos Detected	100% Cellulose	
	L-4 White crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: The wall unit, as a whole, contains <1% Chrysotile asbestos by visual estimation.			
EH-38A 13004222	L-5 Tan fibrous material	No Asbestos Detected	100% Cellulose	
	L-6 White blocky crystalline material	No Asbestos Detected		80% Gypsum Filler and Binder 20% Mineral Particles
	L-1 White paint	No Asbestos Detected		100% Paint
	L-2 Beige crystalline material	2% Chrysotile		85% Calcite Filler and Binder 13% Mineral Particles
	Layer Comments: First positive stop.			
	L-3 Tan fibrous material	No Asbestos Detected	100% Cellulose	

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin
Received By: Abdulrazzak Mansur
Reviewed By: Aruna Turaga

2/19/2013
2/27/2013

Analyzed By: Allison Reagan
2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-39A 13004224	L-1 Beige adhesive	No Asbestos Detected		85% Resin and Binder 15% Mineral Particles
	L-2 Brown adhesive	<1% Tremolite		85% Resin and Binder >14% Mineral Particles
EH-40A 13004225	L-1 Beige vinyl sheeting	No Asbestos Detected		60% Vinyl Filler and Binder 30% Calcite Filler and Binder 10% Mineral Particles
	L-2 Gray fibrous backing	No Asbestos Detected	60% Cellulose	40% Filler and Binder
	L-3 Yellow adhesive	No Asbestos Detected		90% Resin and Binder 10% Mineral Particles
	L-4 Green vinyl sheeting	No Asbestos Detected		60% Vinyl Filler and Binder 30% Calcite Filler and Binder 10% Mineral Particles
	L-5 Gray fibrous backing	30% Chrysotile	30% Cellulose	40% Filler and Binder
	L-6 Yellow adhesive	No Asbestos Detected		90% Resin and Binder 10% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin
Received By: Abdulrazzak Mansur
Reviewed By: Aruna Turaga

2/19/2013
2/27/2013

Analyzed By: Allison Reagan
2/27/2013



1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis (EPA 600/R-93/116)



NVLAP LAB CODE 200613-0

King County Housing Authority

Project Location: 120 West Sunset Way
Issaquah, WA

RGA Batch Number: **13-0423**

RGA Project Number: **KCHA32114**

Number of Samples: **59**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description Layer Comments (if applicable)	Asbestos Components	Non-Asbestos Fibrous Components	Non-Fibrous Components
EH-41A 13004226	L-1 Black asphaltic material Layer Comments: First positive stop.	2% Chrysotile		90% Asphalt Filler and Binder 8% Mineral Particles
	L-2 Brown fibrous material	No Asbestos Detected	100% Cellulose	
	L-3 Beige resinous material	No Asbestos Detected		85% Resin and Binder 15% Mineral Particles
EH-42A 13004228	L-1 White fibrous material	No Asbestos Detected	35% Cellulose	50% Resin and Binder 15% Filler and Binder
	L-2 Beige adhesive	No Asbestos Detected		85% Resin and Binder 15% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: John McCaslin
Received By: Abdulrazzak Mansur
Reviewed By: Aruna Turaga

2/19/2013
2/27/2013

Analyzed By: Allison Reagan
2/27/2013



ENVIRONMENTAL

X PM - Angela Harkins
angela.harkins@rgaenv.com
fax: 206-281-8922

Sr. PM-E. Hartman
eric.hartman@rgaenv.com
fax: 206.281.8922

RGA CLIENT: King County Housing Authority

ACM BULK SAMPLE DATA SHEET

* PLM Analysis

X Stop Analysis at First Positive

PAGE 1 OF 8

Analyze All Samples

Point Count Analysis (400-point)

Project Name/Address: 120 West Sunset Way Issaquah, WA.

Samples Submitted 46

RGA Project #: KCHA32114

Sampled By: JMC/RB

Sample Date: 2/15/2013

Sample(s) Sent To: X RGA EMSL Other: TAT: Rush 24Hrs 48Hrs X 3-5 Days

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

***ADDITIONAL REPORT RECIPIENT(S): Angela JMC/RB ***

HM# 01	Material Description: Texture on GWB Walls/Ceilings - Hallways	Quantity:
Sample ID	Sample Location & Material Location	
EH-01A	Floor 1 - E Hallway - E End	
-01B	Floor 2 - ↓ ↓	
-01C	Floor 3 - ↓ ↓	
HM# 02	Material Description: GWB on Walls/Ceilings w/ Joint Compound - Hallways	Quantity:
Sample ID	Sample Location & Material Location	
EH-02A	Floor 1 - E Hallway - E End	
-02B	Floor 2 ↓ ↓	
-02C	Floor 3 ↓ ↓	
HM# 03	Material Description: Light Green Wallpaper on GWB	Quantity:
Sample ID	Sample Location & Material Location	
EH-03A	Floor 1 - E Hallway - E End	
EH-03B	Floor 2	
HM# 04	Material Description: Mastic Assoc. w/ 4" Tan Covebase (Beige)	Quantity:
Sample ID	Sample Location & Material Location	
EH-04A	Floor 1 - E Hallway - E End	
EH-04B	Floor 2 ↓ ↓	
EH-04C	Floor 3 ↓ ↓	
HM# 05	Material Description: Mastic Beneath Blue/Tan Carpet	Quantity:
Sample ID	Sample Location & Material Location	
EH-05A	Floor 1 - E Hallway - E End	
EH-05B	Floor 2 ↓ ↓	
EH-05C	Floor 3 ↓ ↓	
HM# 06	Material Description: Suspended Ceiling Tile - 2'x4' - White Wormhole	Quantity:
Sample ID	Sample Location & Material Location	
EH-06A	Floor 1 - E Hallway - E End	
EH-06B	Floor 2 ↓ ↓	

Relinquished By: John McCaskle

Signature: [Signature]

Date/Time: 2/15/2013 1730

Received By:

Signature:

Date/Time:

Relinquished By:

Signature:

Date/Time:

Received By: RAZ MANSUR

Signature: [Signature]

Date/Time: 2/19/13

ACM BULK SAMPLE DATA SHEET

* PLM Analysis

X Stop Analysis at First Positive

PAGE 2 OF 3

Analyze All Samples

Point Count Analysis (400-point)

Project Name/Address: 120 West Sunset Way Issaquah, WA.

Samples Submitted 76

RGAE Project #: KCHA32114

Sampled By: [Signature] / 02/13

Sample Date: 2/15/2013

Sample(s) Sent To: X RGA EMSL Other: TAT: Rush 24Hrs 48Hrs X 3-5 Days

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

ADDITIONAL REPORT RECIPIENT(S): Angela

HM# 07	Material Description: Mastic Assoc. w/ 1/4" Tan Covebase (Brown)	Quantity:
Sample ID	Sample Location & Material Location	
EH-07A	Floor 1 - Men's Restroom - W Side	
EH-07B	↓ - Common Kitchen - E Side	
EH-07C		
HM# 08	Material Description: Beige/Tan Speckled Vinyl Floor Sheeting w/ Mastic	Quantity:
Sample ID	Sample Location & Material Location	
EH-08A	Floor 1 - Men's Restroom - W Side	
-08B	↓ - Kitchen - E Side	
-08C	Floor 2 - Laundry Room - S Side	
HM# 09	Material Description: White Caulk @ Toilet	Quantity:
Sample ID	Sample Location & Material Location	
EH-09A	Floor 1 - Men's Restroom - W Side	
EH-09B		
EH-09C		
HM# 10	Material Description: Fiberglass Pipe Insulation w/ Cloth Wrap + Bridging	Quantity:
Sample ID	Sample Location & Material Location	
EH-10A	Floor 1 - Men's Restroom - W Side - Inside Wall	
-10B	↓ - Chair Storage - E Side	
-10C	↓ - Unit 113 - Bathroom - N Side - Inside Wall	
HM# 11	Material Description: Mudded Elbow	Quantity:
Sample ID	Sample Location & Material Location	
EH-11A	Floor 1 - Men's Restroom - W Side - Inside Wall	
-11B	↓ - Chair Storage - E Side	
HM# 12	Material Description: Black Fiberglass Insulation w/ Paper Facing in Int. Walls	Quantity:
Sample ID	Sample Location & Material Location	
EH-12A	Floor 1 - Men's Restroom - W Side - Inside Wall	
EH-12B		
EH-12C		

Relinquished By: John McCaslin

Signature: [Signature]

Date/Time: 2/15/2013 1730

Received By:

Signature:

Date/Time:

Relinquished By:

Signature:

Date/Time:

Received By: RAZ MANSURD

Signature: [Signature]

Date/Time: 2/16/13

13-0423



ENVIRONMENTAL

X PM - Angela Harkins
angela.harkins@rgaenv.com
fax: 206-281-8922

Sr. PM-E. Hartman
eric.hartman@rgaenv.com
fax: 206.281.8922

RGA CLIENT: King County Housing Authority

ACM BULK SAMPLE DATA SHEET

* PLM Analysis

X Stop Analysis at First Positive

PAGE 3 OF 8

Analyze All Samples

Point Count Analysis (400-point)

Project Name/Address: 120 West Sunset Way Issaquah, WA.

Samples Submitted 76

RGA Project #: KCHA32114

Sampled By: 11/12B

Sample Date: 2/15/2013

Sample(s) Sent To: X RGA

EMSL

Other:

TAT: Rush 24Hrs 48Hrs X 3-5 Days

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

ADDITIONAL REPORT RECIPIENT(S): Angela

HM# 13	Material Description: Black Gasket @ Sink Drain	Quantity:
Sample ID	Sample Location & Material Location	
EH-13A	Floor 1 - Men's Restroom - W Side	
HM# 14	Material Description: Black Sink Undercoat w/ Gasket + Putty	Quantity:
Sample ID	Sample Location & Material Location	
EH-14A	Floor 1 - Common Kitchen - S Side	
HM# 15	Material Description: Black Gasket @ Sink Drain	Quantity:
Sample ID	Sample Location & Material Location	
EH-15A	Floor 1 - Comm. Kitchen - S Side	
HM# 15	Material Description: Gray Sink Undercoat w/ Gasket + Putty	Quantity:
Sample ID	Sample Location & Material Location	
EH-15A	Floor 1 - Community Area - S Side	
HM# 16	Material Description: 12" Beige/Tan Streak VFT w/ Mastic	Quantity:
Sample ID	Sample Location & Material Location	
EH-16A	Floor 1 - Chair Storage - E Side	
EH-16B	Floor 2 - Janitor Closet - E Side	
EH-16C	Floor 3 - - 	
HM# 17	Material Description: GWB w/ Joint Compound	Quantity:
Sample ID	Sample Location & Material Location	
EH-17A	Floor 1 - Chair Storage - SE Corner	
EH-17B	Floor 1 - Garbage Room - SE Corner	
EH-17C	Floor 1 - Janitor Closet - SE Corner	

Relinquished By: John McCaslin

Signature: [Signature]

Date/Time: 2/15/2013 1730

Received By:

Signature:

Date/Time:

Relinquished By:

Signature:

Date/Time:

Received By: RAL MAJURO

Signature: [Signature]

Date/Time: 2/19/13

ACM BULK SAMPLE DATA SHEET

* PLM Analysis

X Stop Analysis at First Positive

PAGE 4 OF 8

Analyze All Samples

Point Count Analysis (400-point)

Project Name/Address: 120 West Sunset Way Issaquah, WA.

Samples Submitted 2/15/2013 76

RGA Project #: KCHA32114

Sampled By: JH/RB

Sample Date: 2/15/2013

Sample(s) Sent To: X RGA

EMSL

Other:

TAT:

Rush

24Hrs

48Hrs

X 3-5 Days

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

***ADDITIONAL REPORT RECIPIENT(S): Angela

HM# 18	Material Description: Mastic Assoc. w/ 4" Brown Corbuse	Quantity:
Sample ID	Sample Location & Material Location	
EH-18A	Floor 1 - Garbage Room - S Wall	
HM# 19	Material Description: Texture on GWB Walls/Ceilings	Quantity:
Sample ID	Sample Location & Material Location	
EH-19A	Floor 1 - Garbage Room - E Wall	
↓ -19B	↓ - Janitor Closet - E Wall	
HM# 20	Material Description: Gasket @ Sink Drain	Quantity:
Sample ID	Sample Location & Material Location	
EH-20A	Floor 1 - Janitor Closet - NW Corner	
HM# 21	Material Description: Mastic Assoc. w/ 4" Tan Corbuse	Quantity:
Sample ID	Sample Location & Material Location	
EH-21A	Floor 1 - Unit 111 - Bathroom - SW corner	
EH-21A	↓ Unit 113 - ↓ - S Wall	
HM# 22	Material Description: Beige/Gray Tile Pattern VFSW/mastic	Quantity:
Sample ID	Sample Location & Material Location	
EH-22A	Floor 1 - Unit 111 - Bathroom - SW Corner	
EH-22B	↓ - Unit 113 - ↓ - S Side	
HM# 23	Material Description: GWB w/ Joint Compound	Quantity:
Sample ID	Sample Location & Material Location	
EH-23A	Floor 1 - Unit 111 - Bedroom Closet - NW Corner	
EH-23B	↓ Unit 113 - Bathroom - S Wall	

Relinquished By: John McCarlie

Signature: [Signature]

Date/Time: 2/15/2013 1730

Received By:

Signature:

Date/Time:

Relinquished By:

Signature: [Signature]

Date/Time:

Received By: [Signature]

Signature: [Signature]

Date/Time: 2/19/13



ENVIRONMENTAL

X PM - Angela Harkins

angela.harkins@rgaenv.com

fax: 206-281-8922

Sr. PM-E. Hartman

eric.hartman@rgaenv.com

fax: 206.281.8922

RGA CLIENT: King County Housing Authority

ACM BULK SAMPLE DATA SHEET

* PLM Analysis

X Stop Analysis at First Positive

PAGE 5 OF 8

Analyze All Samples

Point Count Analysis (400-point)

Project Name/Address: 120 West Sunset Way Issaquah, WA.

Samples Submitted 76

RGA Project #: KCHA32114

Sampled By: [Signature]

Sample Date: 2/15/2013

Sample(s) Sent To: X RGA EMSL Other: TAT: Rush 24Hrs 48Hrs X 3-5 Days

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

ADDITIONAL REPORT RECIPIENT(S): Angela

HM# 24	Material Description: Texture on GWB Walls/Ceiling	Quantity:
Sample ID	Sample Location & Material Location	
EH-24A	Floor 1 - Unit 111 - Bedroom Closet - N Wall	
EH-24B	↓ - Unit 113 - Bathroom - S Wall	
HM# 25	Material Description: Gray Sink Undercoat w/ Gasket + Putty	Quantity:
Sample ID	Sample Location & Material Location	
EH-25A	Floor 1 - Unit 111 - Kitchen - Sink (S Side)	
EH-25B	↓ - Unit 113 - ↓ - ↓ (W Side)	
HM# 26	Material Description: Pink Wallpaper on GWB	Quantity:
Sample ID	Sample Location & Material Location	
EH-26A	Floor 2 - E Hall Way - E End	
HM# 27	Material Description: GWB w/ Joint Compound	Quantity:
Sample ID	Sample Location & Material Location	
EH-27A	Floor 2 - Laundry Room - NW Corner	
EH-27B	Floor 3 - ↓ - ↓	
HM# 28	Material Description: Texture on GWB Walls/Ceiling	Quantity:
Sample ID	Sample Location & Material Location	
EH-28A	Floor 2 - Laundry Room - W Wall	
EH-28B	Floor 3 - ↓ - ↓	
HM# 29	Material Description: Mastic Assoc. w/ 1/4" Beige Covebase	Quantity:
Sample ID	Sample Location & Material Location	
EH-29A	Floor 2 - Unit 211 - Bathroom - SW Corner	

Relinquished By: John McCaslin

Signature: [Signature]

Date/Time: 2/15/2013 1730

Received By:

Signature:

Date/Time:

Relinquished By:

Signature:

Date/Time:

Received By: RAZ MANSOUR

Signature: [Signature]

Date/Time: 2/19/13

ACM BULK SAMPLE DATA SHEET

* PLM Analysis

X Stop Analysis at First Positive

PAGE 6 OF 8

Analyze All Samples

Point Count Analysis (400-point)

Project Name/Address: 120 West Sunset Way Issaquah, WA.

Samples Submitted 76

RGA Project #: KCHA32114

Sampled By: [Signature]

Sample Date: 2/15/2013

Sample(s) Sent To: X RGA EMSL Other: TAT: Rush 24Hrs 48Hrs X 3-5 Days

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

ADDITIONAL REPORT RECIPIENT(S): Angela

HM# 30	Material Description: Beige Gray Tile Pattern VFS w/ Mastic over Pebble Pattern	Quantity: VFS w/ Mastic
Sample ID	Sample Location & Material Location	
EH-30A	Unit 211 - Bathroom - SW Corner	
EH-30B	Unit 213 - NE Corner	
HM# 31	Material Description: GWB w/ Joint Compound	Quantity:
Sample ID	Sample Location & Material Location	
EH-31A	Unit 211 - Bedroom Closet - SE Corner	
EH-31B	Unit 213 - NE Corner	
HM# 32	Material Description: Texture on GWB Walls / Ceilings	Quantity:
Sample ID	Sample Location & Material Location	
EH-32A	Unit 211 - Bedroom Closet - W Wall	
EH-32B	Unit 213 - NE Corner	
HM# 33	Material Description: Gray Sink Undercoat w/ Gasket + Putty	Quantity:
Sample ID	Sample Location & Material Location	
EH-33A	Unit 211 - Kitchen - S Side Sink	
HM# 34	Material Description: Mastic Assoc. w/ 4" Olive Green Covebase	Quantity:
Sample ID	Sample Location & Material Location	
EH-34A	Unit 213 - Bathroom - SE corner	
EH-34B	Unit 211 - SW Corner	
HM# 35	Material Description: Green Mosaic Pattern VFS w/ Mastic	Quantity:
Sample ID	Sample Location & Material Location	
EH-35A	Unit 213 - Bathroom - SE Corner	
EH-35B	Unit 311 - SW Corner	

Relinquished By: [Signature]

Signature: [Signature]

Date/Time: 2/15/2013 1730

Received By:

Signature:

Date/Time:

Relinquished By:

Signature:

Date/Time:

Received By: RAL MANSURO

Signature: [Signature]

Date/Time: 2/19/13



X PM - Angela Harkins
angela.harkins@rgaenv.com
fax: 206-281-8922

Sr. PM-E. Hartman
eric.hartman@rgaenv.com
fax: 206.281.8922

RGA CLIENT: King County Housing Authority

ACM BULK SAMPLE DATA SHEET

* PLM Analysis

X Stop Analysis at First Positive

PAGE 7 OF 8

Analyze All Samples

Point Count Analysis (400-point)

Project Name/Address: 120 West Sunset Way Issaquah, WA.

Samples Submitted 76

RGA Project #: KCHA32114

Sampled By: [Signature]

Sample Date: 2/15/2013

Sample(s) Sent To: X RGA EMSL Other: TAT: Rush 24Hrs 48Hrs X 3-5 Days

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

ADDITIONAL REPORT RECIPIENT(S): Angela

HM# 36	Material Description: Black Sink Undercoat w/ Gasket + Putty	Quantity:
Sample ID	Sample Location & Material Location	
EH-36A	Unit 313 - Kitchen - S Side - Sink	
EH-36B	Unit 311 -	
HM# 37	Material Description: GWB w/ Joint Compound	Quantity:
Sample ID	Sample Location & Material Location	
EH-37A	Unit 313 - Bedroom Closet - NE Corner	
EH-37B	Unit 311 -	
HM# 38	Material Description: Texture on GWB walls/ceilings	Quantity:
Sample ID	Sample Location & Material Location	
EH-38A	Unit 313 - Bedroom Closet - NE Corner - N Wall	
EH-38B	Unit 311 -	
HM# 39	Material Description: Mastic Assoc. w/ 4" Tan Covebase	Quantity:
Sample ID	Sample Location & Material Location	
EH-39A	Unit 313 - Bathroom - SE Corner	
HM# 40	Material Description: Beige/Gray Tile Pattern VFS over PU/mastic over Pebble	Quantity: VFS w/ mastic
Sample ID	Sample Location & Material Location	
EH-40A	Unit 313 - Bathroom - SE Corner	
HM# 41	Material Description: Black Sink Undercoat w/ Gasket + Putty	Quantity:
Sample ID	Sample Location & Material Location	
EH-41A	Unit 313 - Kitchen - S Side - Sink	
EH-41B	Unit 311 -	

Relinquished By: John McCaslin

Signature: [Signature]

Date/Time: 2/15/2013 1730

Received By:

Signature:

Date/Time:

Relinquished By:

Signature:

Date/Time:

Received By:

RAZ MANSURD

Signature: [Signature]

Date/Time: 2/19/13

ACM BULK SAMPLE DATA SHEET

* PLM Analysis

X Stop Analysis at First Positive

PAGE 3 OF

Analyze All Samples

Point Count Analysis (400-point)

Project Name/Address: 120 West Sunset Way Issaquah, WA.

Samples Submitted 76

RGAE Project #: KCHA32114

Sampled By: [Signature]

Sample Date: 2/15/2013

Sample(s) Sent To: X RGA

EMSL

Other:

TAT:

Rush

24Hrs

48Hrs

X 3-5 Days

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

ADDITIONAL REPORT RECIPIENT(S): Angela

HM# 42	Material Description: Blue Wallpaper on GWB	Quantity:
Sample ID	Sample Location & Material Location	
EH-42A	Floor 3 - E Hallway - E End	
HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	

Relinquished By: John McArthur

Signature: [Signature]

Date/Time: 2/15/2013 1730

Received By:

Signature:

Date/Time:

Relinquished By:

Signature: [Signature]

Date/Time:

Received By: RAZ MANSURO

Signature: [Signature]

Date/Time: 2/19/13

Sample Log Chain of Custody

RGA Laboratory Services

INTERNAL

Client: _____ Client Contact _____
 Company: King County Housing Authority
 Client Address: 15455 65th Ave S
 Seattle WA 98188-2583
 City State Zip
 Phone #: (206)244-7750
 2nd or Cell #: _____
 Fax #: (206)242-0733
 e-mail Address: _____

RGA Batch #: 13-0423
 RGA Project #: KCHA32114
 Client Job #: _____
 Number of Samples: 76

Project Manager: Angela Harkins

Project Location: 120 West Sunset Way

Issaquah, WA

Condition: ☒ Good ☐ Damaged ☐ Severe Damage

TYPE OF ANALYSIS

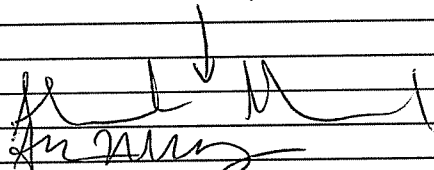
ASBESTOS:	METALS:	
<input type="checkbox"/> PCM (air)	<input type="checkbox"/> Paint	<input type="checkbox"/> Soil
<input checked="" type="checkbox"/> PLM (bulk)	<input type="checkbox"/> Wipe	<input type="checkbox"/> Air
<input type="checkbox"/> Pt. Count (bulk)	<input type="checkbox"/> TCLP	<input type="checkbox"/> Water
MOLD: P&K <input type="checkbox"/> 100 <input type="checkbox"/> 101 <input type="checkbox"/> 102 <input type="checkbox"/> 105 <input type="checkbox"/> 117		
Other Method: _____		

Turn Around Time (other): 5 day

2 hour / 4 hour	Same Day	One Day
Two Day	3-5 days	10 days

Price per Sample: \$ _____

#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
1	EH-01A	13004153		11	EH-05A	13004163	
2	EH-01B	13004154		12	EH-05B	13004164	
3	EH-01C	13004155		13	EH-05C	13004165	Hold
4	EH-02A	13004156		14	EH-06A	13004166	
5	EH-02B	13004157		15	EH-06B	13004167	
6	EH-02C	13004158		16	EH-07A	13004168	
7	EH-03A	13004159		17	EH-07B	13004169	
8	EH-04A	13004160		18	EH-08A	13004170	Hold
9	EH-04B	13004161	Hold	19	EH-08B	13004171	
10	EH-04C	13004162		20	EH-08C	13004172	

	Signature	Date	Time
Sampled by:	JOHN MCCABLIN / RUSSELL BROWN	2/15/13	
Relinquished by:			
Received by:			
Relinquished by:		2/18/13	945
Received for Laboratory by:		022713	1545
Analyzed by:			
Preliminary Results Reported to P.M. by:			
Final Report to P.M. by:			

Special Instructions:

Stop analysis at first positive.

Due by 2/26/2013

Sample Log Chain of Custody

RGA Laboratory Services

INTERNAL

Client: _____ Client Contact _____
 Company: King County Housing Authority
 Client Address: 15455 65th Ave S

 Seattle WA 98188-2583
 City State Zip

RGA Batch #: 13-0423
 RGA Project #: KCHA32114
 Client Job #: _____
 Number of Samples: 76

Page: 2 of 3

#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
21	EH-09A	13004173		41	EH-21A	13004193	
22	EH-10A	13004174		42	EH-21B	13004194	
23	EH-10B	13004175	Hold	43	EH-22A	13004195	
24	EH-10C	13004176		44	EH-22B	13004196	
25	EH-11A	13004177		45	EH-23A	13004197	
26	EH-11B	13004178		46	EH-23B	13004198	
27	EH-12A	13004179		47	EH-24A	13004199	
28	EH-13A	13004180		48	EH-24B	13004200	
29	EH-14A	13004181		49	EH-25A	13004201	
30	EH-15A	13004182		50	EH-25B	13004202	
31	EH-16A	13004183		51	EH-26A	13004203	
32	EH-16B	13004184		52	EH-27A	13004204	
33	EH-16C	13004185	Hold	53	EH-27B	13004205	
34	EH-17A	13004186		54	EH-28A	13004206	
35	EH-17B	13004187	Hold	55	EH-28B	13004207	
36	EH-17C	13004188		56	EH-29A	13004208	
37	EH-18A	13004189		57	EH-30A	13004209	
38	EH-19A	13004190		58	EH-31A	13004210	
39	EH-19B	13004191		59	EH-31B	13004211	
40	EH-20A	13004192		60	EH-32A	13004212	

	Signature	Date	Time
Sampled by:	<i>SOVIN MCCALIN/RUSSELL BROWNE</i>	<i>2/15/13</i>	
Relinquished by:			
Received by:			
Relinquished by:			
Received for Laboratory by:	<i>[Signature]</i>	<i>2/19/13</i>	<i>945</i>
Analyzed by:	<i>[Signature]</i>	<i>022713</i>	<i>1545</i>
Preliminary Results Reported to P.M. by:			
Final Report to P.M. by:			
Special Instructions: Stop analysis at first positive. Due by 2/26/2013			

Sample Log Chain of Custody

RGA Laboratory Services

INTERNAL

Client: _____ Client Contact _____
 Company: King County Housing Authority
 Client Address: 15455 65th Ave S

 Seattle WA 98188-2583
 City State Zip

RGA Batch #: 13-0423
 RGA Project #: KCHA32114
 Client Job #: _____
 Number of Samples: 76

Page: 3 of 3

#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
61	EH-32B	13004213		81			
62	EH-33A	13004214		82			
63	EH-34A	13004215		83			
64	EH-34B	13004216		84			
65	EH-35A	13004217		85			
66	EH-35B	13004218		86			
67	EH-36A	13004219		87			
68	EH-37A	13004220		88			
69	EH-37B	13004221		89			
70	EH-38A	13004222		90			
71	EH-38B	13004223		91			
72	EH-39A	13004224		92			
73	EH-40A	13004225		93			
74	EH-41A	13004226		94			
75	EH-41B	13004227		95			
76	EH-42A	13004228		96			
77				97			
78				98			
79				99			
80				100			

	Signature	Date	Time
Sampled by:	<i>JOHN MCCASLIN / RUSSELL BROWNE</i>	<i>2/15/13</i>	
Relinquished by:	↓		
Received by:	<i>[Signature]</i>	<i>2/19/13</i>	<i>945</i>
Relinquished by:	<i>[Signature]</i>	<i>022713</i>	<i>1545</i>
Received for Laboratory by:			
Analyzed by:			
Preliminary Results Reported to P.M. by:			
Final Report to P.M. by:			
Special Instructions: Stop analysis at first positive. Due by 2/26/2013			

Attachment 2

RGA Technician Field Notes



WWW.RGAENV.COM

PROJECT NAME: _____

RGA PROJECT #: KCHA DATE: _____

RGA REPRESENTATIVE: _____

DESCRIPTION: _____

NOTES: _____

East Ridge ~~Homes~~ (King Co Housing Auth)

ACM + Pb by XRF

3 story bldg - 40 units (2 units per floor - 6 units total)

Full plumbing removal + replacement

- Kitchens/Baths/Bedroom Closets

- Walls/Floors/plumbing/wall

- Common areas w/ plumbing access

- Ext. Siding components

Ext Samples -

2 GWB Ea unit (Bath/Closet) = 12

1 GWB Ea Hallway = 3

2 Flooring ea unit = 12

2 CB ea unit = 12

? 1 Flooring ea hallway @ riser pen. = 3

1 CB ea Hallway = 3

2 ea. Siding = 2

1 ea unit / 1 hall - Text = 1

Pipe Insul? (10 ea) = 10

45

9

10

Attachment 3

ACM Materials Sample Location Drawing

Unit 111 - Bath + Kitchen have same VFS + core base

★ No Vapor barrier or other SACM @ Ext. Penetration location

GENERAL NOTES

1. PIPING OFFSET FOR CLARITY. ROUTE SHOWN IS IDEAL. ADDITIONAL OFFSETS AND FITTINGS MAY BE REQUIRED DUE TO EXISTING SYSTEMS.
2. CW MAINS IN CORRIDORS SHALL BE COPPER AND SUSPENDED FROM STRUCTURE ABOVE DROPPED CEILING. LIVING UNIT'S SUPPLY BRANCHES SHALL BE PEX PIPING.

CONSTRUCTION NOTES

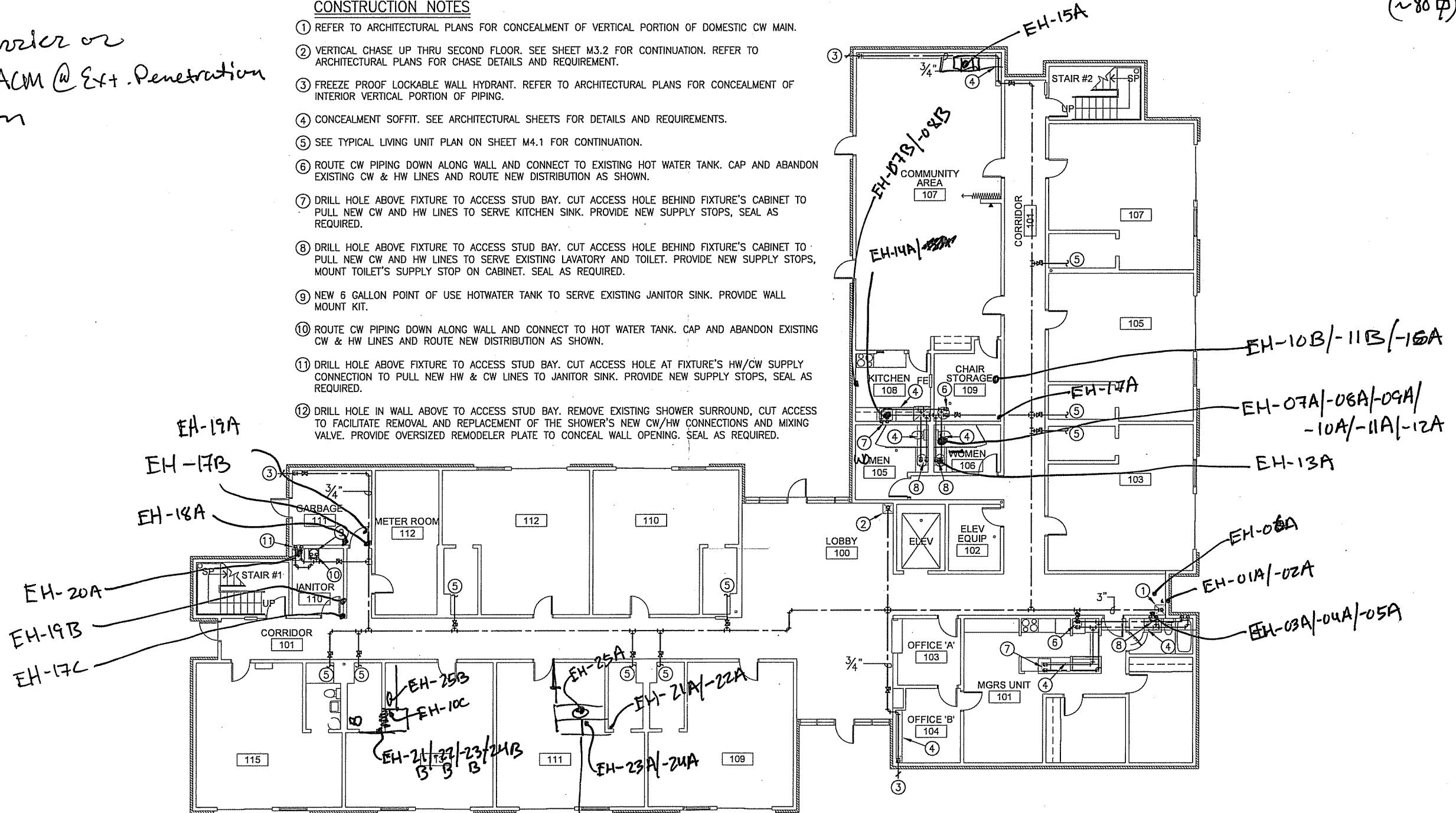
1. REFER TO ARCHITECTURAL PLANS FOR CONCEALMENT OF VERTICAL PORTION OF DOMESTIC CW MAIN.
2. VERTICAL CHASE UP THRU SECOND FLOOR. SEE SHEET M3.2 FOR CONTINUATION. REFER TO ARCHITECTURAL PLANS FOR CHASE DETAILS AND REQUIREMENT.
3. FREEZE PROOF LOCKABLE WALL HYDRANT. REFER TO ARCHITECTURAL PLANS FOR CONCEALMENT OF INTERIOR VERTICAL PORTION OF PIPING.
4. CONCEALMENT SOFFIT. SEE ARCHITECTURAL SHEETS FOR DETAILS AND REQUIREMENTS.
5. SEE TYPICAL LIVING UNIT PLAN ON SHEET M4.1 FOR CONTINUATION.
6. ROUTE CW PIPING DOWN ALONG WALL AND CONNECT TO EXISTING HOT WATER TANK. CAP AND ABANDON EXISTING CW & HW LINES AND ROUTE NEW DISTRIBUTION AS SHOWN.
7. DRILL HOLE ABOVE FIXTURE TO ACCESS STUD BAY. CUT ACCESS HOLE BEHIND FIXTURE'S CABINET TO PULL NEW CW AND HW LINES TO SERVE KITCHEN SINK. PROVIDE NEW SUPPLY STOPS, SEAL AS REQUIRED.
8. DRILL HOLE ABOVE FIXTURE TO ACCESS STUD BAY. CUT ACCESS HOLE BEHIND FIXTURE'S CABINET TO PULL NEW CW AND HW LINES TO SERVE EXISTING LAVATORY AND TOILET. PROVIDE NEW SUPPLY STOPS, MOUNT TOILET'S SUPPLY STOP ON CABINET. SEAL AS REQUIRED.
9. NEW 6 GALLON POINT OF USE HOTWATER TANK TO SERVE EXISTING JANITOR SINK. PROVIDE WALL MOUNT KIT.
10. ROUTE CW PIPING DOWN ALONG WALL AND CONNECT TO HOT WATER TANK. CAP AND ABANDON EXISTING CW & HW LINES AND ROUTE NEW DISTRIBUTION AS SHOWN.
11. DRILL HOLE ABOVE FIXTURE TO ACCESS STUD BAY. CUT ACCESS HOLE AT FIXTURE'S HW/CW SUPPLY CONNECTION TO PULL NEW HW & CW LINES TO JANITOR SINK. PROVIDE NEW SUPPLY STOPS, SEAL AS REQUIRED.
12. DRILL HOLE IN WALL ABOVE TO ACCESS STUD BAY. REMOVE EXISTING SHOWER SURROUND, CUT ACCESS TO FACILITATE REMOVAL AND REPLACEMENT OF THE SHOWER'S NEW CW/HW CONNECTIONS AND MIXING VALVE. PROVIDE OVERSIZED REMODELER PLATE TO CONCEAL WALL OPENING. SEAL AS REQUIRED.

Assumed Mats - Mens RR - 4" Beige CWT w/grout + mortar

- Garbage Room - White FRP on walls (to ~ 4')

- Unit 111 - Bathroom - CWT @ Bath (~ 10')

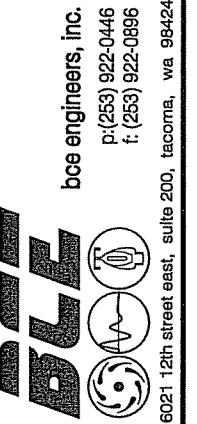
- Unit 113 - Bathroom - Mosaic @ Shower surround (~ 80')



1 FIRST FLOOR PLUMBING PLAN
SCALE: 1/8"=1'-0"



★ All matls. in Women's RR same as Men's RR
★ Texture on GarB Uniform thru common areas + hallways



REUSE OF DOCUMENTS
ALL MATERIAL HEREIN CONSTITUTES THE ORIGINAL AND UNPUBLISHED WORK OF THE ENGINEER AND MAY NOT BE USED, DUPLICATED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. COPYRIGHT © 2007 BY BCE ENGINEERS, INC. ALL RIGHTS RESERVED.

KCHA
EASTRIDGE HOUSE
PLUMBING REPLACEMENT
ISSAQUAH, WA

FIRST FLOOR
PLUMBING PLAN

DRAWN BY: CB
CHECKED BY: SZ
REVISIONS:

DRAWING No.
M3.1
DATE: 1-10-12
CHECK SET
PROJECT No. 212-223

Tan Covebase w/ Brown Mastic (Same as FL1 Common areas)
in common areas on this floor

Janitor Closet - Same gasket as FL1 Jan. Clos.

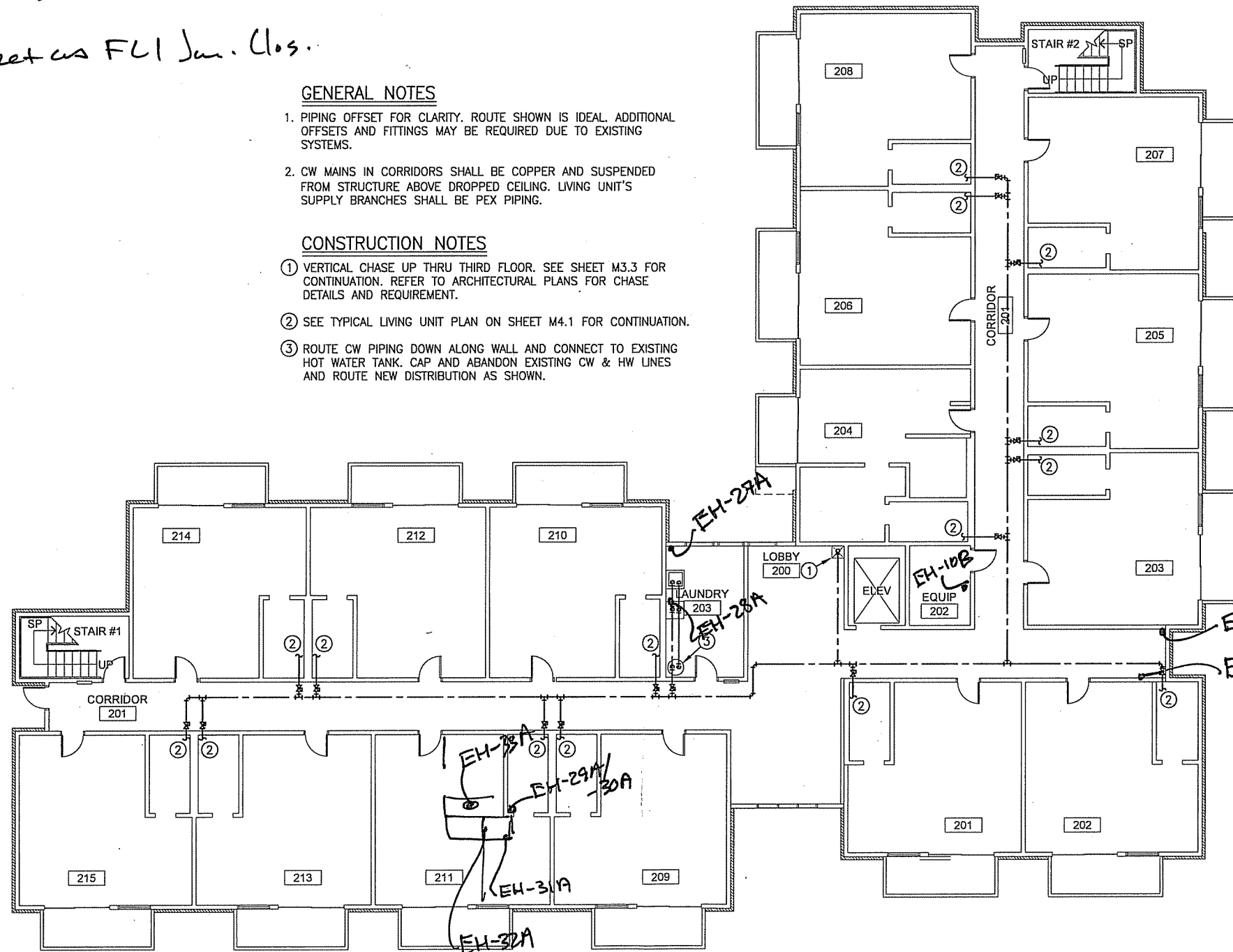
Std Bathrooms ~ 6' X 12'

GENERAL NOTES

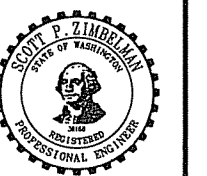
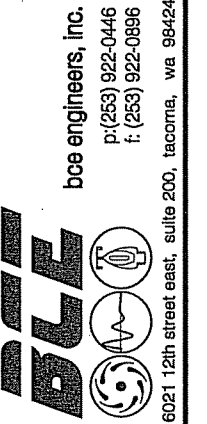
1. PIPING OFFSET FOR CLARITY. ROUTE SHOWN IS IDEAL. ADDITIONAL OFFSETS AND FITTINGS MAY BE REQUIRED DUE TO EXISTING SYSTEMS.
2. CW MAINS IN CORRIDORS SHALL BE COPPER AND SUSPENDED FROM STRUCTURE ABOVE DROPPED CEILING. LIVING UNIT'S SUPPLY BRANCHES SHALL BE PEX PIPING.

CONSTRUCTION NOTES

1. VERTICAL CHASE UP THRU THIRD FLOOR. SEE SHEET M3.3 FOR CONTINUATION. REFER TO ARCHITECTURAL PLANS FOR CHASE DETAILS AND REQUIREMENT.
2. SEE TYPICAL LIVING UNIT PLAN ON SHEET M4.1 FOR CONTINUATION.
3. ROUTE CW PIPING DOWN ALONG WALL AND CONNECT TO EXISTING HOT WATER TANK. CAP AND ABANDON EXISTING CW & HW LINES AND ROUTE NEW DISTRIBUTION AS SHOWN.



② SECOND FLOOR PLUMBING PLAN
SCALE: 1/8"=1'-0"



REUSE OF DOCUMENTS
ALL MATERIAL HEREIN CONSTITUTES THE ORIGINAL AND UNPUBLISHED WORK OF THE ENGINEER AND MAY NOT BE USED, DUPLICATED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. COPYRIGHT © 2007 BY BOE ENGINEERS, INC. ALL RIGHTS RESERVED.

KCHA
EASTRIDGE HOUSE
PLUMBING REPLACEMENT
ISSAQUAH, WA

SECOND FLOOR
PLUMBING PLAN

DRAWN BY: CB
CHECKED BY: SZ
REVISIONS:

DRAWING No.
M3.2
DATE: 1-10-12
CHECK SET
PROJECT No. 212-223

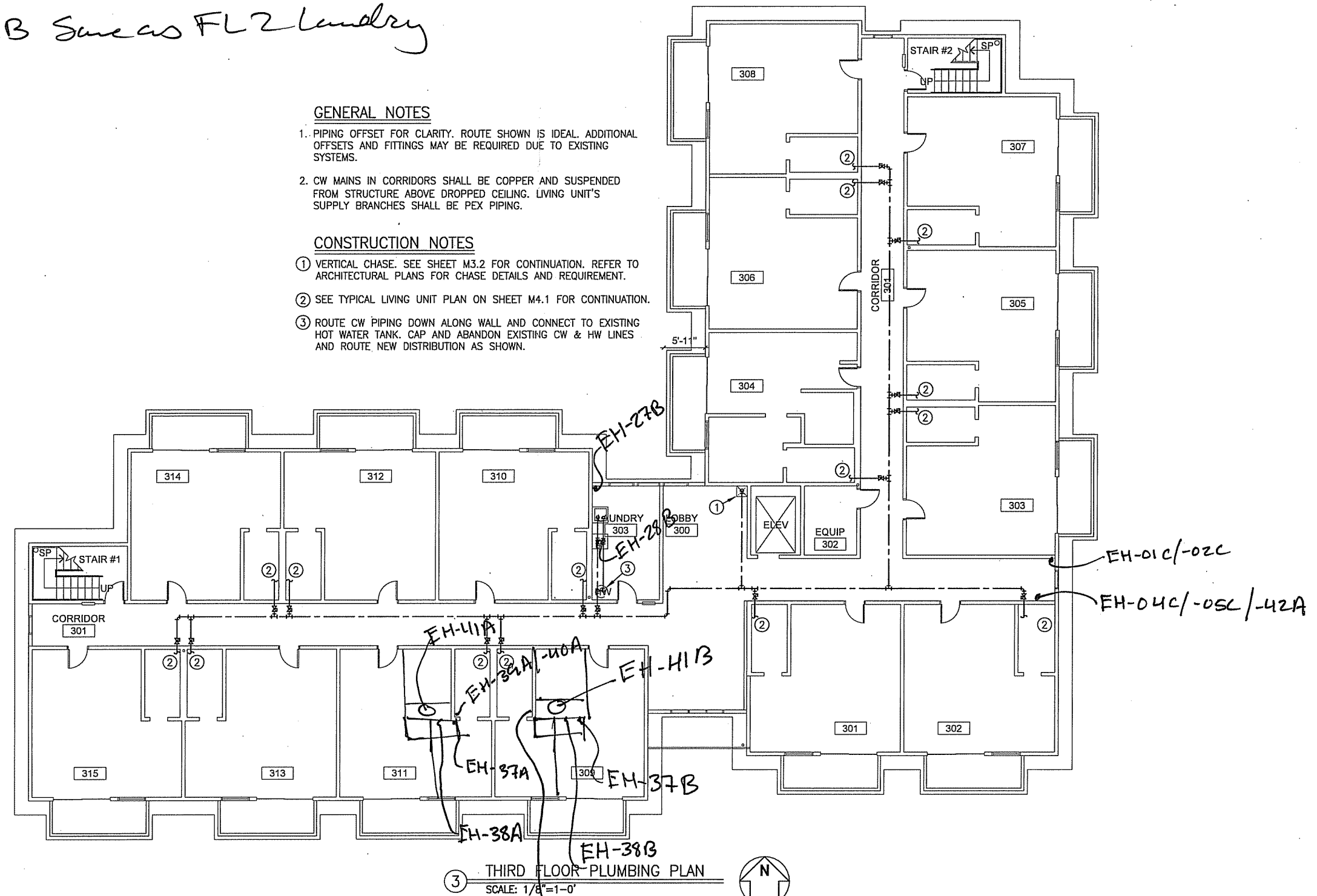
Laundry Room Vinyl + CB Same as FL2 Laundry

ACM Sample locations


1. PIPING OFFSET FOR CLARITY. ROUTE SHOWN IS IDEAL. ADDITIONAL OFFSETS AND FITTINGS MAY BE REQUIRED DUE TO EXISTING SYSTEMS.

2. CW MAINS IN CORRIDORS SHALL BE COPPER AND SUSPENDED FROM STRUCTURE ABOVE DROPPED CEILING. LIVING UNIT'S SUPPLY BRANCHES SHALL BE PEX PIPING.

- ① VERTICAL CHASE. SEE SHEET M3.2 FOR CONTINUATION. REFER TO ARCHITECTURAL PLANS FOR CHASE DETAILS AND REQUIREMENT.
- ② SEE TYPICAL LIVING UNIT PLAN ON SHEET M4.1 FOR CONTINUATION.
- ③ ROUTE CW PIPING DOWN ALONG WALL AND CONNECT TO EXISTING HOT WATER TANK. CAP AND ABANDON EXISTING CW & HW LINES AND ROUTE NEW DISTRIBUTION AS SHOWN.



BLE



bce engineers, inc.

p:(253) 922-0446
f: (253) 922-0896

6021 12th street east, suite 200, tacoma, wa 98424



REUSE OF DOCUMENTS
ALL MATERIAL HEREIN CONSTITUTES THE ORIGINAL AND UNPUBLISHED WORK OF THE ENGINEER AND MAY NOT BE USED, DUPLICATED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. COPYRIGHT © 2007 BY BCE ENGINEERS, INC. ALL RIGHTS RESERVED.

KCHA
EASTRIDGE HOUSE
PLUMBING REPLACEMENT

THIRD FLOOR PLUMBING PLAN

DRAWN BY:	CB
CHECKED BY:	SZ
REVISIONS:	

DRAWING No.

M3.3

DATE: 1-10-12
CHECK SET
PROJECT No. 212-223

Attachment 4

RGA Certifications

Certificate of Completion

This is to certify that

Angela Harkins

has satisfactorily completed

8 hours of refresher training as an

AHERA Project Designer

in compliance with TSCA Title II AHERA 40 CFR Part 763
U.S. EPA Region 10 Accreditation #792

Course Date: 05/07/2012

Cert.# 12-0906

Refresher required by: 5/7/2013



RGA

ENVIRONMENTAL

1730 Minor Ave Suite 900
Seattle, WA 98101 • 888.281.8858
www.rgatraining.com

8 hours of refresher training as an AHERA Project Designer

Angela Harkins

Cert.# 12-0906

Course Date: 05/07/2012

Refresher required by: 5/7/2013

Instructor: Ethel Kaufman

Training Manager: Wendy Newell

RGA Training: 206.269.6313

RGA Laboratory: 206.956.3775

RGA Consulting: 206.269.6302

Corporate Office: 510.547.7771



RGA
ENVIRONMENTAL 1730 Minor Ave Suite 900, Seattle, WA 98101
888.281.8858 • www.rgatraining.com

**4 hours of refresher training as an
AHERA Building Inspector**

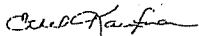
David L. Welch

Cert.# 12-1164

Course Date: 06/25/2012

Refresher required by: 6/25/2013

Instructor: Ethel Kaufman



Training Manager: Wendy Newell

RGA Training: 206.269.6313

RGA Laboratory: 206.956.3775

RGA Consulting: 206.269.6302

Corporate Office: 510.547.7771



1730 Minor Ave Suite 900, Seattle, WA 98101
888.281.8858 • www.rgatraining.com

Certificate of Completion

This is to certify that

David L. Welch

has satisfactorily completed

4 hours of refresher training as an

AHERA Building Inspector

in compliance with TSCA Title II AHERA 40 CFR Part 763
U.S. EPA Region 10 Accreditation #792

Course Date: 06/25/2012

Cert.# 12-1164

Refresher required by: 6/25/2013



RGA
ENVIRONMENTAL

1730 Minor Ave Suite 900
Seattle, WA 98101 • 888.281.8858
www.rgatraining.com

**8 hours of refresher training as an
AHERA Project Designer**

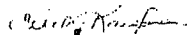
David L. Welch

Cert.# 12-2319

Course Date: 11/19/2012

Refresher required by: 11/19/2013

Instructor: Ethel Kaufman



Training Manager: Wendy Newell

RGA Training: 206.269.6313

RGA Laboratory: 206.956.3775

RGA Consulting: 206.269.6302

Corporate Office: 510.547.7771



1730 Minor Ave Suite 900, Seattle, WA 98101
888.281.8858 • www.rgatraining.com

Certificate of Completion

This is to certify that

David L. Welch

has satisfactorily completed

8 hours of refresher training as an

AHERA Project Designer

in compliance with TSCA Title II AHERA 40 CFR Part 763
U.S. EPA Region 10 Accreditation #792

Course Date: 11/19/2012

Cert.# 12-2319

Refresher required by: 11/19/2013



RGA
ENVIRONMENTAL

1730 Minor Ave Suite 900
Seattle, WA 98101 • 888.281.8858
www.rgatraining.com

Certificate of Completion

This is to certify that

John McCaslin

has satisfactorily completed

4 hours of refresher training as an

AHERA Building Inspector

in compliance with TSCA Title II AHERA 40 CFR Part 763
U.S. EPA Region 10 Accreditation #792

Course Date: 05/10/2012

Cert.# 12-0923

Refresher required by: 5/10/2013



RGA
ENVIRONMENTAL

1730 Minor Ave Suite 900
Seattle, WA 98101 • 888.281.8858
www.rgatraining.com

4 hours of refresher training as an AHERA Building Inspector

John McCaslin

Cert.# 12-0923

Course Date: 05/10/2012

Refresher required by: 5/10/2013

Instructor: Ethel Kaufman

Training Manager: Wendy Newell

RGA Training: 206.269.6313

RGA Laboratory: 206.956.3775

RGA Consulting: 206.269.6302

Corporate Office: 510.547.7771



RGA
ENVIRONMENTAL 1730 Minor Ave Suite 900, Seattle, WA 98101
888.281.8858 • www.rgatraining.com

EXHIBIT S

A	B	C	D	E	F	G		H	I
ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE	WORK COMPLETED		MATERIALS PRESENTLY STORED (NOT IN D OR E)	TOTAL COMPLETED & STORED TO DATE (D + E + F)	%(G ÷ C)	BALANCE TO FINISH (C - G)	RETAINAGE (AGGREGATE TO DATE)
			FROM PREVIOUS APPLICATION(S) (G)	THIS PERIOD					
	Allowance & Contingencies	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Close-Out 5%	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Bonds & Insurance	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	O&P	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	General Conditions	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Permits	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Hazmat/Abatement	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Demo-Heat Systems	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Demo-Electrical	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Electrical-Materials	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Electrical-Labor	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Demo-Capentry	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Carpentry-Materials	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Carpentry-Labor	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Wall Mounted heat pumps-Equip	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Materials	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Labor	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Electric Cove Heaters-Equip	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Materials	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Labor	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	ERV (Community Room)-Equip	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Materials	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Labor	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Exhaust Fans-Equip	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Materials	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Labor	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Grilles, Registers, Diffusers-Equip	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Materials	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Labor	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	GWB Repairs	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Painting	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	TAB	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	Commissioning Coordination	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	TOTALS	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00
	0% RETAINAGE	0.00	0.00	0.00	0.00	0.00			
	TOTALS LESS RETAINAGE	0.00	0.00	0.00	0.00	0.00		0.00	0.00

APPLICATION NO:

01

APPLICATION DATE:

PERIOD FROM:

PERIOD TO:

EXHIBIT S

A	B	C	D	E	F	G	H	I
	TOTAL BALANCE TO FINISH (H + I)							0.00
	NET CHANGE ORDERS THIS PERIOD:		0.00	CHANGE ORDERS APPROVED THIS PERIOD (LIST C/O #s)				
	NET C/O ADDITIONS (THIS PERIOD):		0.00	NET C/O DEDUCTIONS (THIS PERIOD):				0.00
	TOTAL CHANGE ORDERS TO DATE:		0.00					