

# Lead-Based Paint Inspection and Risk Assessment Report

KCHA Shelcor  
503 4<sup>th</sup> Avenue South  
Kent, Washington 98102

Prepared for:  
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LEAD-BASED PAINT INSPECTION AND RISK ASSESSMENT  
KCHA Shelcor  
Kent, Washington

For

King County Housing Authority  
700 Andover Park West, Suite C  
Seattle, Washington 98188

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Prepared by:

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## SUPPORTING DATA

**TAB 1: XRF Data Sheets and Lab Reports**

**TAB 2: Certifications**

## 1 IDENTIFYING INFORMATION

### BUILDING DATA

KCHA Shelcor  
503 4th Avenue South  
Kent, Washington 98032

### CLIENT DATA

King County Housing Authority  
700 Andover Park West, Suite C  
Seattle, Washington 98188

Attn: Ms. Deborah McCaslin

### SCOPE OF ASSESSMENT

PBS Engineering and Environmental, Inc. (PBS) conducted a lead-based paint inspection and risk assessment on July 26 and 27, 2017, in accordance with the U.S. Department of Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing. All of the eight (8) units were included in the inspection and risk assessment. The laundry room and maintenance storage were also included in the scope.

### DWELLING SELECTION PROCESS

All of the eight (8) units were included in the inspection and risk assessment.

### CERTIFICATIONS

#### Risk Assessor

Janet Murphy  
State of Washington  
Department of Community, Trade and Economic Development  
Risk Assessor Certification No: 0258, Expiration Date: 3/8/2019



Signature

August 3, 2017

Date

#### Firm

PBS Engineering and Environmental  
2517 Eastlake Avenue East  
Seattle, Washington 98102  
Telephone: 206.223.9639

Certification No: 129143  
Expiration Date: 7/31/2018

#### Laboratory

EMSL Analytical Inc.  
3317 3<sup>rd</sup> Avenue South, Suite D  
Seattle, Washington 98134  
Telephone: 206.269.6310

Certification No: 167337

## 2 LEAD PAINT INSPECTION

### 2.1 Site Information

Shelcor Apartments consist of two (2) buildings with a total of eight (8) units constructed in 1961. The buildings are of wood construction with gypsum interior walls and ceilings. The exterior is brick with cement board siding and wood trim. Apartment units are one or two bedroom with a bathroom and a kitchen/living room area. The buildings are in good condition.

The majority of the interior components are painted. Walls are painted gypsum wallboard. Bathroom walls have ceramic tile. Doors and doors frames are painted wood or metal. The window frames are vinyl.

### 2.2 Lead-Based Paint Inspection and Sampling

The presence of lead in paint was determined through x-ray fluorescence spectroscopy. Based on Table 7.3 in Chapter 7 of the HUD Guidelines, all of the eight (8) units at the site were included in PBS's inspection.

#### 2.2.1 XRF Sampling

A handheld INNOV-X Systems Inc. X-Ray Fluorescence Analyzer (XRF) operating in lead paint mode was used to perform a surface-by-surface lead paint inspection of each selected unit and building.

HUD and Environmental Protection Agency (EPA) have set 1.0 milligrams per square centimeter ( $\text{mg}/\text{cm}^2$ ) as the threshold limit for lead-based paint as determined through X-Ray Fluorescence (XRF) testing. HUD and EPA have set 5,000 parts per million (ppm), or 0.5% by atomic absorption laboratory analysis as the threshold limit for lead-based paint. Paint that is known to contain lead levels less than those described above does not have to be evaluated, although all deteriorated paint (paint surfaces in poor condition) should be repaired because it may contain lower levels of lead that may contribute to lead dust or lead contaminated soil hazards.

All calibration readings were within the tolerance for this instrument. No substrate correction is required with the INNOV-X Systems XRF per the instrument's performance characteristic sheet.

The "Side" information presented on the XRF data sheets is in relation to the side of the rooms, or building exteriors where the street address is located. The inspector/risk assessor used the address side of each residence as the basis to establish side "A". Sides B, C, and D follow in clockwise rotation.

Please refer to the XRF sample data table for the complete list of XRF samples located in Tab 1.

#### 2.2.2 Bulk Paint-Chip Sampling

Bulk paint chip verification samples were not collected as there were not any inconclusive results with the XRF.

### 2.3 Components with Lead-Based Paint

Lead was not found in any painted components above the HUD level of  $1.0 \text{ mg}/\text{cm}^2$  by XRF.

### 2.4 Deteriorated Lead-Based Paint Surfaces

Painted surfaces were evaluated to be in an intact condition. It was determined that no lead was present in any of the paint tested.

### 3 LEAD-BASED PAINT RISK ASSESSMENT

#### 3.1 Locations and Types of Lead Hazards Identified

Lead hazards were not identified at this facility. Lead was not found in any painted components above the HUD level of 1.0 mg/cm<sup>2</sup> by XRF or 0.5% by flame atomic absorption spectrometry (FAAS).

#### 3.2 Dust Sample Results

The purpose of dust sampling is to determine the lead concentration in settled dust. Dust is an important pathway for childhood exposure to lead. Children can be exposed to leaded dust by inhalation or ingestion. Ingestion of leaded dust is a common pathway during normal hand to mouth activities involving their fingers, or toys that have come in contact with leaded dust. Wipe sampling is the recommended method for collecting surface dust samples. Dust samples are typically collected from floors near friction and impact spots or areas of deteriorated paint, interior window sills, and window wells. Cabinets, shelves, and table tops may also be sampled if there is reason to suspect a surface dust hazard may exist caused by friction, impact points, or from areas of deteriorated paint nearby.

Dust wipes were collected in accordance with EPA 747-R-95-001, Residential Sampling for Lead: Protocols for Dust and Soil Sampling. All wipe samples were analyzed using EPA Method SW846-7000B, Flame Atomic Absorption.

HUD has established the following threshold limits for lead in settled dust in target housing: 40 µg/ft<sup>2</sup> on floors, 250 µg/ft<sup>2</sup> on window sills, and 400 µg/ft<sup>2</sup> in window wells.

With the exception of the entry foyer floor of each unit, interior wipe samples were not collected as lead-based paint was not identified during the inspection portion of this investigation. Wipe samples were collected from the entry foyer floors due to the potential for lead-contaminated soil to be tracked inside the unit from historic lead painted exterior siding that may have been present at the site.

Results of the single surface dust sampling conducted during this assessment revealed lead concentrations below EPA/HUD lead standards indicating that lead hazards do not exist as discussed above. The following table lists the locations and findings from lead dust wipe sampling.

PBS Sample #	Surface	Sample Location	Results (µg/SF)
40573.133 D-1	Floor	Unit 1 Foyer	<20.0
40573.133 D-2	Floor	Unit 2 Foyer	<20.0
40573.133 D-3	Floor	Unit 3 Foyer	<20.0
40573.133 D-4	Floor	Unit 4 Foyer	<20.0
40573.133 D-5	Floor	Unit 5 Foyer	<20.0
40573.133 D-6	Floor	Unit 6 Foyer	<20.0
40573.133 D-7	Floor	Unit 7 Foyer	<20.0
40573.133 D-8	Floor	Unit 8 Foyer	<20.0

### 3.3 Soil Samples

Composite soil sampling was conducted around the foundation or “drip line” of the buildings. The soil samples were collected in accordance with EPA 747-R-95-001, Residential Sampling for Lead: Protocols for Dust and Soil Sampling. All samples were analyzed using EPA Method SW846-7000B, Flame Atomic Absorption.

The EPA/HUD threshold for bare residential soil is 1,200 ppm or milligram per kilogram (mg/kg).

Analysis of the composite soil samples collected from the exterior drip line of the buildings revealed lead in soil **below** the EPA/HUD threshold for bare residential soil.

<b>PBS Sample #</b>	<b>Sample Type</b>	<b>Sample Location</b>	<b>Results (ppm)</b>
40573.133 S-1	Composite Soil	North Building Drip Line	41
40573.133 S-2	Composite Soil	South Building Drip Line	47

Lead soil sample chain-of-custody and lab reports are located under Tab 1.

There were no playground areas in the complex for soil sampling.

## 4 LEAD HAZARD CONTROL

A lead hazard control program is not required for this property. Lead-based paint was not identified at this property. Lead hazards have not been identified at this property.

**TAB 1**

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**XRF Data Sheets and Lab Reports**

Reading	Test Location	Substrate	Component	Color	Positive/Negative	XRF Reading	Condition
1	---	---	---	Red	Positive	1.09	
2	Calibration			Red	Positive	1.1	
3	Calibration			Red	Positive	1.09	
4							
5							
6							
<b>South Building Unit 1</b>							
7	Living Room/Kitchen A	Gypsum Wallboard	Wall	White	Negative	0	Intact
8	Living Room/Kitchen B	Gypsum Wallboard	Wall	White	Negative	0	Intact
9	Living Room/Kitchen C	Gypsum Wallboard	Wall	White	Negative	0	Intact
10	Living Room/Kitchen D	Gypsum Wallboard	Wall	White	Negative	0	Intact
11	Living Room/Kitchen D	Wood	Door	White	Negative	0	Intact
12	Living Room/Kitchen D	Wood	Door Frame	White	Negative	0	Intact
13	Living Room/Kitchen D	Wood	Window Frame	White	Negative	0	Intact
14	Bedroom 2 A	Gypsum Wallboard	Wall	White	Negative	0	Intact
15	Bedroom 2 B	Gypsum Wallboard	Wall	White	Negative	0.04	Intact
16	Bedroom 2 C	Gypsum Wallboard	Wall	White	Negative	0	Intact
17	Bedroom 2 D	Gypsum Wallboard	Wall	White	Negative	0	Intact
18	Bedroom 2 A	Wood	Door	White	Negative	0	Intact
19	Bedroom 2 A	Wood	Door Frame	White	Negative	0	Intact
20	Bedroom 2 A	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
21	Closet A	Gypsum Wallboard	Wall	White	Negative	0	Intact
22	Closet B	Gypsum Wallboard	Wall	White	Negative	0	Intact
23	Closet C	Gypsum Wallboard	Wall	White	Negative	0	Intact
24	Closet D	Wood	Door	White	Negative	0	Intact
25	Closet D	Wood	Door Frame	White	Negative	0	Intact
26	Closet	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
27	Bathroom A	Gypsum Wallboard	Wall	White	Negative	0	Intact
28	Bathroom B	Gypsum Wallboard	Wall	White	Negative	0	Intact
29	Bathroom C	Gypsum Wallboard	Wall	White	Negative	0	Intact
30	Bathroom B	Wood	Cabinet	Varnish	Negative	0	Intact
31	Bathroom C	Wood	Door	White	Negative	0	Intact
32	Bathroom C	Wood	Door Frame	White	Negative	0	Intact
33	Bathroom D	Gypsum Wallboard	Wall	White	Negative	0	Intact
34	Bathroom	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
35	Bedroom 1 A	Gypsum Wallboard	Wall	White	Negative	0	Intact
36	Bedroom 1 B	Gypsum Wallboard	Wall	White	Negative	0	Intact
37	Bedroom 1 C	Gypsum Wallboard	Wall	White	Negative	0	Intact
38	Bedroom 1 A	Gypsum Wallboard	Wall	White	Negative	0	Intact

Reading	Test Location	Substrate	Component	Color	Positive/Negative	XRF Reading	Condition
39	Bedroom 1 A	Wood	Door	White	Negative	0	Intact
40	Bedroom 1 A	Wood	Door Frame	White	Negative	0	Intact
41	Bedroom 1 B	Metal	Fuse Box Cover	Gray	Negative	0	Intact
42	Bedroom 1 B	Wood	Window Frame	White	Negative	0	Intact
43	Bedroom 1	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
44	Bedroom 1 Closet A	Gypsum Wallboard	Wall	White	Negative	0	Intact
45	Bedroom 1 Closet B	Wood	Door	White	Negative	0	Intact
46	Bedroom 1 Closet B	Wood	Door Frame	White	Negative	0	Intact
47	Bedroom 1 Closet C	Gypsum Wallboard	Wall	White	Negative	0	Intact
48	Bedroom 1 Closet D	Gypsum Wallboard	Wall	White	Negative	0	Intact
49	Bedroom 1 Closet	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
50	Living Room/Kitchen A	Wood	Cabinet	Varnish	Negative	0	Intact
51	Living Room/Kitchen A	Gypsum Wallboard	Wall	White	Negative	0	Intact
<b>South Building Unit 2</b>							
52	Living Room/Kitchen A	Gypsum Wallboard	Wall	White	Negative	0	Intact
53	Living Room/Kitchen B	Gypsum Wallboard	Wall	White	Negative	0.01	Intact
54	Living Room/Kitchen C	Gypsum Wallboard	Wall	White	Negative	0	Intact
55	Living Room/Kitchen D	Gypsum Wallboard	Wall	White	Negative	0	Intact
56	Living Room/Kitchen	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
57	Living Room/Kitchen B	Wood	Cabinet	Varnish	Negative	0	Intact
58	Living Room/Kitchen D	Wood	Window Frame	White	Negative	0	Intact
59	Living Room/Kitchen D	Wood	Door	White	Negative	0	Intact
60	Living Room/Kitchen D	Wood	Door Frame	White	Negative	0	Intact
61	Living Room/Kitchen A	Gypsum Wallboard	Wall	White	Negative	0	Intact
62	Living Room/Kitchen B	Gypsum Wallboard	Wall	White	Negative	0	Intact
63	Living Room/Kitchen C	Gypsum Wallboard	Wall	White	Negative	0	Intact
64	Living Room/Kitchen B	Wood	Door	White	Negative	0	Intact
65	Living Room/Kitchen B	Wood	Door Frame	White	Negative	0	Intact
66	Bathroom A	Gypsum Wallboard	Wall	White	Negative	0	Intact
67	Bathroom B	Gypsum Wallboard	Wall	White	Negative	0	Intact
68	Bathroom C	Gypsum Wallboard	Wall	White	Negative	0	Intact
69	Bathroom D	Gypsum Wallboard	Wall	White	Negative	0	Intact
70	Bathroom B	Wood	Cabinet	Varnish	Negative	0	Intact
71	Bathroom	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
72	Bathroom A	Wood	Door	White	Negative	0	Intact
73	Bathroom A	Wood	Door Frame	White	Negative	0	Intact
74	Bedroom 2 A	Gypsum Wallboard	Wall	White	Negative	0	Intact
75	Bedroom 2 B	Gypsum Wallboard	Wall	White	Negative	0	Intact
76	Bedroom 2 C	Gypsum Wallboard	Wall	White	Negative	0	Intact

Reading	Test Location	Substrate	Component	Color	Positive/Negative	XRF Reading	Condition
77	Bedroom 2 D	Gypsum Wallboard	Wall	White	Negative	0	Intact
78	Bedroom 2	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
79	Bedroom 2 B	Wood	Window Frame	White	Negative	0	Intact
80	Bedroom 2 B	Metal	Fuse Box Cover	Gray	Negative	0	Intact
81	Bedroom 2 C	Wood	Door	White	Negative	0	Intact
82	Bedroom 2 C	Wood	Door Frame	White	Negative	0	Intact
83	Bedroom 2 C	Wood	Door Frame	White	Negative	0	Intact
84	Bedroom 2 (closet) A	Gypsum Wallboard	Wall	White	Negative	0.01	Intact
85	Bedroom 2 (closet) B	Wood	Door	White	Negative	0	Intact
86	Bedroom 2 (closet) B	Wood	Door Frame	White	Negative	0	Intact
87	Bedroom 2 (closet) C	Gypsum Wallboard	Wall	White	Negative	0	Intact
88	Bedroom 2 (closet) D	Gypsum Wallboard	Wall	White	Negative	0	Intact
89	Bedroom 1 A	Gypsum Wallboard	Wall	White	Negative	0	Intact
90	Bedroom 1 B	Gypsum Wallboard	Wall	White	Negative	0	Intact
91	Bedroom 1 C	Gypsum Wallboard	Wall	White	Negative	0	Intact
92	Bedroom 1 D	Gypsum Wallboard	Wall	White	Negative	0	Intact
93	Bedroom 1 D	Wood	Window Frame	White	Negative	0	Intact
94	Bedroom 1 (closet) A	Gypsum Wallboard	Wall	White	Negative	0	Intact
95	Bedroom 1 (closet) B	Gypsum Wallboard	Wall	White	Negative	0	Intact
96	Bedroom 1 (closet) C	Gypsum Wallboard	Wall	White	Negative	0	Intact
97	Bedroom 1 (closet) D	Wood	Door	White	Negative	0	Intact
98	Bedroom 1 (closet) D	Wood	Door Frame	White	Negative	0	Intact
99	Bedroom 1	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
100	Living Room/Kitchen A	Wood	Door	White	Negative	0	Intact
101	Living Room/Kitchen A	Wood	Door Frame	White	Negative	0	Intact
<b>South Building Unit 3</b>							
102	Living Room/Kitchen A	Gypsum Wallboard	Wall	White	Negative	0	Intact
103	Living Room/Kitchen B	Gypsum Wallboard	Wall	White	Negative	0	Intact
104	Living Room/Kitchen C	Gypsum Wallboard	Wall	White	Negative	0	Intact
105	Living Room/Kitchen D	Gypsum Wallboard	Wall	White	Negative	0	Intact
106	Living Room/Kitchen	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
107	Living Room/Kitchen D	Wood	Door	White	Negative	0	Intact
108	Living Room/Kitchen D	Wood	Door Frame	White	Negative	0	Intact
109	Living Room/Kitchen D	Wood	Window Frame	White	Negative	0	Intact
110	Living Room/Kitchen A	Wood	Cabinet	Varnish	Negative	0	Intact
111	Living Room/Kitchen A	Gypsum Wallboard	Wall	White	Negative	0	Intact
112	Living Room/Kitchen B	Gypsum Wallboard	Wall	White	Negative	0	Intact
113	Living Room/Kitchen C	Gypsum Wallboard	Wall	White	Negative	0	Intact
114	Living Room/Kitchen D	Wood	Door	White	Negative	0	Intact

Reading	Test Location	Substrate	Component	Color	Positive/Negative	XRF Reading	Condition
115	Living Room/Kitchen D	Wood	Door Frame	White	Negative	0	Intact
116	Bedroom 2 A	Gypsum Wallboard	Wall	White	Negative	0	Intact
117	Bedroom 2 B	Gypsum Wallboard	Wall	White	Negative	0	Intact
118	Bedroom 2 C	Gypsum Wallboard	Wall	White	Negative	0	Intact
119	Bedroom 2 D	Gypsum Wallboard	Wall	White	Negative	0	Intact
120	Bedroom 2 A	Wood	Door	White	Negative	0	Intact
121	Bedroom 2 A	Wood	Door Frame	White	Negative	0	Intact
122	Bedroom 2 B	Wood	Window Frame	White	Negative	0	Intact
123	Bedroom 2 B	Metal	Fuse Box Cover	Gray	Negative	0	Intact
124	Bedroom 2 (closet) A	Gypsum Wallboard	Wall	White	Negative	0	Intact
125	Bedroom 2 (closet) B	Wood	Door	White	Negative	0	Intact
126	Bedroom 2 (closet) B	Wood	Door Frame	White	Negative	0	Intact
127	Bedroom 2 (closet) C	Gypsum Wallboard	Wall	White	Negative	0	Intact
128	Bedroom 2 (closet) D	Gypsum Wallboard	Wall	White	Negative	0	Intact
129	Bedroom 2 (closet)	Gypsum Wallboard	Wall	White	Negative	0	Intact
130	Bedroom 2	Gypsum Wallboard	Wall	White	Negative	0	Intact
131	Bathroom A	Gypsum Wallboard	Wall	White	Negative	0	Intact
132	Bathroom B	Gypsum Wallboard	Wall	White	Negative	0	Intact
133	Bathroom C	Gypsum Wallboard	Wall	White	Negative	0	Intact
134	Bathroom D	Gypsum Wallboard	Wall	White	Negative	0	Intact
135	Bathroom	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
136	Bathroom B	Wood	Cabinet	Varnish	Negative	0	Intact
137	Bathroom C	Wood	Door	White	Negative	0	Intact
138	Bathroom C	Wood	Door Frame	White	Negative	0	Intact
139	Bedroom 1 A	Gypsum Wallboard	Wall	White	Negative	0	Intact
140	Bedroom 1 B	Gypsum Wallboard	Wall	White	Negative	0.01	Intact
141	Bedroom 1 C	Gypsum Wallboard	Wall	White	Negative	0	Intact
142	Bedroom 1 D	Gypsum Wallboard	Wall	White	Negative	0	Intact
143	Bedroom 1 A	Wood	Door	White	Negative	0	Intact
144	Bedroom 1 A	Wood	Door Frame	White	Negative	0	Intact
145	Bedroom 1 D	Wood	Window Frame	White	Negative	0	Intact
146	Bedroom 1 A (closet)	Gypsum Wallboard	Wall	White	Negative	0	Intact
147	Bedroom 1 B (closet)	Gypsum Wallboard	Wall	White	Negative	0	Intact
148	Bedroom 1 C (closet)	Gypsum Wallboard	Wall	White	Negative	0	Intact
149	Bedroom 1 D (closet)	Wood	Door	White	Negative	0	Intact
150	Bedroom 1 D (closet)	Wood	Door Frame	White	Negative	0	Intact
151	Bedroom 1 (closet)	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
152	Bedroom	Gypsum Wallboard	Wall	White	Negative	0	Intact
153	Standardize						

Reading	Test Location	Substrate	Component	Color	Positive/Negative	XRF Reading	Condition
154	Standardize						
155	Standardize						
156	Standardize						
157	Standardize						
158	Standardize						
159	Calibrate	Test Paint	NIST Standard	Red		1.14	
160	Calibrate	Test Paint	NIST Standard	Red		1.06	
161	Calibrate	Test Paint	NIST Standard	Red		1.09	
<b>South Building Unit 4</b>							
162	Living Room/Kitchen A	Gypsum Wallboard	Wall	White	Negative	0	Intact
163	Living Room/Kitchen B	Gypsum Wallboard	Wall	White	Negative	0	Intact
164	Living Room/Kitchen C	Gypsum Wallboard	Wall	White	Negative	0	Intact
165	Living Room/Kitchen D	Gypsum Wallboard	Wall	White	Negative	0	Intact
166	Living Room/Kitchen B	Wood	Cabinet	Varnish	Negative	0	Intact
167	Living Room/Kitchen C	Wood	Window Frame	White	Negative	0	Intact
168	Living Room/Kitchen D	Wood	Window Frame	White	Negative	0	Intact
169	Living Room/Kitchen D	Wood	Door	White	Negative	0	Intact
170	Living Room/Kitchen D	Wood	Door Frame	White	Negative	0	Intact
171	Living Room/Kitchen	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
172	Bedroom 2 A	Gypsum Wallboard	Wall	White	Negative	0	Intact
173	Bedroom 2 B	Gypsum Wallboard	Wall	White	Negative	0	Intact
174	Bedroom 2 C	Gypsum Wallboard	Wall	White	Negative	0	Intact
175	Bedroom 2 D	Gypsum Wallboard	Wall	White	Negative	0	Intact
176	Bedroom 2 B	Wood	Window Frame	White	Negative	0	Intact
177	Bedroom 2 A (closet)	Gypsum Wallboard	Wall	White	Negative	0	Intact
178	Bedroom 2 B (closet)	Wood	Door	White	Negative	0	Intact
179	Bedroom 2 B (closet)	Wood	Door Frame	White	Negative	0	Intact
180	Bedroom 2 C (closet)	Gypsum Wallboard	Wall	White	Negative	0	Intact
181	Bedroom 2 D (closet)	Gypsum Wallboard	Wall	White	Negative	0	Intact
182	Bathroom A	Gypsum Wallboard	Wall	White	Negative	0	Intact
183	Bathroom B	Gypsum Wallboard	Wall	White	Negative	0	Intact
184	Bathroom C	Gypsum Wallboard	Wall	White	Negative	0	Intact

Reading	Test Location	Substrate	Component	Color	Positive/Negative	XRF Reading	Condition
185	Bathroom D	Gypsum Wallboard	Wall	White	Negative	0	Intact
186	Bathroom	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
187	Bathroom B	Wood	Cabinet	Varnish	Negative	0	Intact
188	Bathroom A	Wood	Door	White	Negative	0	Intact
189	Bathroom A	Wood	Door Frame	White	Negative	0	Intact
190	Bedroom 2	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
191	Bedroom 1 A	Gypsum Wallboard	Wall	White	Negative	0	Intact
192	Bedroom 1 B	Gypsum Wallboard	Wall	White	Negative	0	Intact
193	Bedroom 1 C	Gypsum Wallboard	Wall	White	Negative	0	Intact
194	Bedroom 1 D	Gypsum Wallboard	Wall	White	Negative	0	Intact
195	Bedroom 1 D	Wood	Window Frame	White	Negative	0	Intact
196	Bedroom 1 C	Wood	Door	White	Negative	0	Intact
197	Bedroom 1 C	Wood	Door Frame	White	Negative	0	Intact
198	Bedroom 1 A (closet)	Gypsum Wallboard	Wall	White	Negative	0	Intact
199	Bedroom 1 B (closet)	Gypsum Wallboard	Wall	White	Negative	0	Intact
200	Bedroom 1 C (closet)	Gypsum Wallboard	Wall	White	Negative	0	Intact
201	Bedroom 1 D (closet)	Wood	Door	White	Negative	0	Intact
202	Bedroom 1 D (closet)	Wood	Door Frame	White	Negative	0	Intact
203	Bedroom 1 (closet)	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
204	Bedroom 1	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
<b>North Building Unit 5</b>							
205	Living Room/Kitchen A	Gypsum Wallboard	Wall	White	Negative	0	Intact
206	Living Room/Kitchen B	Gypsum Wallboard	Wall	White	Negative	0	Intact
207	Living Room/Kitchen C	Gypsum Wallboard	Wall	White	Negative	0	Intact
208	Living Room/Kitchen D	Gypsum Wallboard	Wall	White	Negative	0	Intact
209	Living Room/Kitchen C	Wood	Cabinet	Varnish	Negative	0	Intact
210	Living Room/Kitchen C	Wood	Window Frame	White	Negative	0	Intact
211	Living Room/Kitchen B	Wood	Door	White	Negative	0	Intact
212	Living Room/Kitchen B	Wood	Door Frame	White	Negative	0	Intact
213	Living Room/Kitchen	Gypsum Wallboard	Ceiling	White	Negative	0.01	Intact
214	Living Room/Kitchen	Wood	Window Frame	White	Negative	0	Intact
215	Bedroom 2 A	Gypsum Wallboard	Wall	White	Negative	0	Intact
216	Bedroom 2 B	Gypsum Wallboard	Wall	White	Negative	0	Intact
217	Bedroom 2 C	Gypsum Wallboard	Wall	White	Negative	0	Intact
218	Bedroom 2 D	Gypsum Wallboard	Wall	White	Negative	0	Intact
219	Bedroom 2 D	Wood	Window Frame	White	Negative	0	Intact
220	Bedroom 2 A (closet)	Gypsum Wallboard	Wall	White	Negative	0	Intact
221	Bedroom 2 B (closet)	Gypsum Wallboard	Wall	White	Negative	0	Intact
222	Bedroom 2 C (closet)	Gypsum Wallboard	Wall	White	Negative	0	Intact

Reading	Test Location	Substrate	Component	Color	Positive/Negative	XRF Reading	Condition
223	Bedroom 2 D (closet)	Wood	Wall	White	Negative	0	Intact
224	Bedroom 2 D (closet)	Wood	Door Frame	White	Negative	0	Intact
225	Bedroom 2 (closet)	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
226	Bedroom 2	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
227	Bathroom A	Gypsum Wallboard	Wall	White	Negative	0	Intact
228	Bathroom B	Gypsum Wallboard	Wall	White	Negative	0	Intact
229	Bathroom C	Gypsum Wallboard	Wall	White	Negative	0	Intact
230	Bathroom D	Gypsum Wallboard	Wall	White	Negative	0	Intact
231	Bathroom D	Wood	Cabinet	Varnish	Negative	0	Intact
232	Bathroom A	Wood	Door	White	Negative	0	Intact
233	Bathroom A	Wood	Door Frame	White	Negative	0	Intact
234	Bathroom	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
235	Bedroom 1 A	Gypsum Wallboard	Wall	White	Negative	0	Intact
236	Bedroom 1 B	Gypsum Wallboard	Wall	White	Negative	0	Intact
237	Bedroom 1 C	Gypsum Wallboard	Wall	White	Negative	0	Intact
238	Bedroom 1 D	Gypsum Wallboard	Wall	White	Negative	0	Intact
239	Bedroom 1 B	Wood	Window Frame	White	Negative	0	Intact
240	Bedroom 1 C	Wood	Door	White	Negative	0	Intact
241	Bedroom 1 C	Wood	Door Frame	White	Negative	0	Intact
242	Bedroom 1 A (closet)	Gypsum Wallboard	Wall	White	Negative	0.01	Intact
243	Bedroom 1 B (closet)	Wood	Door	White	Negative	0	Intact
244	Bedroom 1 B (closet)	Wood	Door Frame	White	Negative	0	Intact
245	Bedroom 1 C (closet)	Gypsum Wallboard	Wall	White	Negative	0	Intact
246	Bedroom 1 D (closet)	Gypsum Wallboard	Wall	White	Negative	0	Intact
247	Bedroom 1 Closet	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
248	Bedroom 1	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
249	Livingroom A	Gypsum Wallboard	Wall	White	Negative	0.01	Intact
250	Livingroom B	Wood	Door	White	Negative	0	Intact
251	Livingroom B	Wood	Door Frame	White	Negative	0	Intact
252	Livingroom C	Gypsum Wallboard	Wall	White	Negative	0	Intact
253	Livingroom D	Gypsum Wallboard	Wall	White	Negative	0	Intact
<b>North Building Unit 6</b>							
254	Living Room/Kitchen A	Gypsum Wallboard	Wall	White	Negative	0	Intact
256	Living Room/Kitchen B	Gypsum Wallboard	Wall	White	Negative	0	Intact
257	Living Room/Kitchen C	Gypsum Wallboard	Wall	White	Negative	0	Intact
258	Living Room/Kitchen D	Wood	Cabinet	Varnish	Negative	0	Intact
259	Living Room/Kitchen D	Wood	Window	White	Negative	0	Intact
260	Living Room/Kitchen C	Wood	Door	White	Negative	0	Intact
261	Living Room/Kitchen B	Wood	Door Frame	White	Negative	0	Intact

Reading	Test Location	Substrate	Component	Color	Positive/Negative	XRF Reading	Condition
262	Living Room/Kitchen B	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
263	Living Room/Kitchen Pantry A	Gypsum Wallboard	Wall	White	Negative	0	Intact
264	Living Room/Kitchen Pantry B	Wood	Door	White	Negative	0	Intact
265	Living Room/Kitchen Pantry B	Wood	Door Frame	White	Negative	0	Intact
266	Living Room/Kitchen Pantry C	Gypsum Wallboard	Wall	White	Negative	0	Intact
267	Living Room/Kitchen Pantry D	Gypsum Wallboard	Wall	White	Negative	0	Intact
268	Living Room/Kitchen Pantry	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
269	Bathroom A	Gypsum Wallboard	Wall	White	Negative	0	Intact
270	Bathroom B	Gypsum Wallboard	Wall	White	Negative	0	Intact
271	Bathroom C	Gypsum Wallboard	Wall	White	Negative	0	Intact
272	Bathroom D	Gypsum Wallboard	Wall	White	Negative	0	Intact
273	Bathroom D	Wood	Cabinet	Varnish	Negative	0	Intact
274	Bathroom	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
275	Bathroom C	Wood	Door	White	Negative	0	Intact
276	Bathroom C	Wood	Door Frame	White	Negative	0	Intact
277	Bedroom 2 A	Gypsum Wallboard	Wall	White	Negative	0	Intact
278	Bedroom 2 B	Gypsum Wallboard	Wall	White	Negative	0	Intact
279	Bedroom 2 C	Gypsum Wallboard	Wall	White	Negative	0	Intact
280	Bedroom 2 D	Gypsum Wallboard	Wall	White	Negative	0	Intact
281	Bedroom 2 B	Wood	Window Frame	White	Negative	0	Intact
282	Bedroom 2	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
283	Bedroom 2 A	Wood	Door	White	Negative	0	Intact
284	Bedroom 2 A	Wood	Door Frame	White	Negative	0	Intact
285	Bedroom 1 A	Gypsum Wallboard	Wall	White	Negative	0	Intact
286	Bedroom 1 B	Gypsum Wallboard	Wall	White	Negative	0	Intact
287	Bedroom 1 C	Gypsum Wallboard	Wall	White	Negative	0	Intact
288	Bedroom 1 D	Gypsum Wallboard	Wall	White	Negative	0	Intact
289	Bedroom 1	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
290	Bedroom 1 B	Wood	Window Frame	White	Negative	0	Intact
291	Bedroom 1 A	Wood	Door	White	Negative	0	Intact
292	Bedroom 1 A	Wood	Door Frame	White	Negative	0	Intact
<b>North Building Unit 7</b>							
293	Living Room/Kitchen A	Gypsum Wallboard	Wall	White	Negative	0.01	Intact
294	Living Room/Kitchen B	Gypsum Wallboard	Wall	White	Negative	0	Intact
295	Living Room/Kitchen C	Gypsum Wallboard	Wall	White	Negative	0	Intact
296	Living Room/Kitchen D	Gypsum Wallboard	Wall	White	Negative	0	Intact
297	Living Room/Kitchen	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
298	Living Room/Kitchen B	Wood	Window Frame	White	Negative	0	Intact
299	Living Room/Kitchen D	Wood	Cabinet	Varnish	Negative	0	Intact

Reading	Test Location	Substrate	Component	Color	Positive/Negative	XRF Reading	Condition
300	Bedroom 1 A	Gypsum Wallboard	Wall	White	Negative	0	Intact
301	Bedroom 1 B	Gypsum Wallboard	Wall	White	Negative	0	Intact
302	Bedroom 1 C	Gypsum Wallboard	Wall	White	Negative	0	Intact
303	Bedroom 1 D	Gypsum Wallboard	Wall	White	Negative	0	Intact
304	Bedroom 1	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
305	Bathroom A	Gypsum Wallboard	Wall	White	Negative	0	Intact
306	Bathroom B	Gypsum Wallboard	Wall	White	Negative	0	Intact
307	Bathroom C	Gypsum Wallboard	Wall	White	Negative	0	Intact
308	Bathroom	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
309	Bathroom D	Gypsum Wallboard	Wall	White	Negative	0	Intact
310	Bathroom D	Wood	Cabinet	Varnish	Negative	0	Intact
311	Bathroom A	Wood	Door	White	Negative	0	Intact
312	Bathroom A	Wood	Door Frame	White	Negative	0	Intact
313	Bedroom 2 A	Gypsum Wallboard	Wall	White	Negative	0	Intact
314	Bedroom 2 B	Gypsum Wallboard	Wall	White	Negative	0	Intact
315	Bedroom 2 C	Gypsum Wallboard	Wall	White	Negative	0	Intact
316	Bedroom 2	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
317	Bedroom 2 B	Wood	Door	White	Negative	0	Intact
318	Bedroom 2	Wood	Door Frame	White	Negative	0	Intact
319	Bedroom 2 D	Gypsum Wallboard	Wall	White	Negative	0.03	Intact
320	Living Room/Kitchen A	Wood	Door	White	Negative	0	Intact
321	Living Room/Kitchen A	Wood	Door Frame	White	Negative	0	Intact
322	Living Room/Kitchen B	Wood	Door	White	Negative	0	Intact
323	Living Room/Kitchen B	Wood	Door Frame	White	Negative	0	Intact
<b>North Building Unit 8</b>							
324	Living Room/Kitchen A	Gypsum Wallboard	Wall	White	Negative	0	Intact
325	Living Room/Kitchen B	Gypsum Wallboard	Wall	White	Negative	0	Intact
326	Living Room/Kitchen C	Gypsum Wallboard	Wall	White	Negative	0	Intact
327	Living Room/Kitchen D	Gypsum Wallboard	Wall	White	Negative	0	Intact
328	Living Room/Kitchen A	Gypsum Wallboard	Wall	White	Negative	0	Intact
329	Living Room/Kitchen	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
330	Living Room/Kitchen	Wood	Cabinet	Varnish	Negative	0	Intact
331	Living Room/Kitchen B	Wood	Door	White	Negative	0	Intact
332	Living Room/Kitchen B	Wood	Door Frame	White	Negative	0	Intact
333	Mechanical Closet A	Gypsum Wallboard	Wall	White	Negative	0	Intact
334	Mechanical Closet B	Wood	Door	White	Negative	0	Intact
335	Mechanical Closet B	Wood	Door Frame	White	Negative	0	Intact
336	Mechanical Closet C	Gypsum Wallboard	Wall	White	Negative	0	Intact
337	Mechanical Closet D	Gypsum Wallboard	Wall	White	Negative	0	Intact

Reading	Test Location	Substrate	Component	Color	Positive/Negative	XRF Reading	Condition
338	Bathroom A	Gypsum Wallboard	Wall	White	Negative	0	Intact
339	Bathroom B	Gypsum Wallboard	Wall	White	Negative	0	Intact
340	Bathroom C	Gypsum Wallboard	Wall	White	Negative	0	Intact
341	Bathroom D	Gypsum Wallboard	Wall	White	Negative	0	Intact
342	Bathroom	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
343	Bathroom D	Wood	Cabinet	Varnish	Negative	0	Intact
344	Bathroom C	Wood	Door	White	Negative	0	Intact
345	Bathroom C	Wood	Door Frame	White	Negative	0	Intact
346	Bedroom A	Gypsum Wallboard	Wall	White	Negative	0.01	Intact
347	Bedroom B	Gypsum Wallboard	Wall	White	Negative	0.03	Intact
348	Bedroom C	Gypsum Wallboard	Wall	White	Negative	0.03	Intact
349	Bedroom D	Gypsum Wallboard	Wall	White	Negative	0.04	Intact
350	Bedroom	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
351	Bedroom D	Wood	Window Frame	White	Negative	0	Intact
352	Closet A	Gypsum Wallboard	Wall	White	Negative	0	Intact
353	Closet B	Gypsum Wallboard	Wall	White	Negative	0	Intact
354	Close C	Gypsum Wallboard	Wall	White	Negative	0	Intact
355	Closet D	Wood	Door	White	Negative	0	Intact
356	Close D	Wood	Door Frame	White	Negative	0	Intact
357	Bedroom A	Wood	Door	White	Negative	0	Intact
358	Bedroom A	Wood	Door Frame	White	Negative	0	Intact

Reading	Test Location	Substrate	Component	Color	Positive/Negative	XRF Reading	Condition
1	Calibration	Test Paint	NIST Standard	Red	Positive	1.06	
2	Calibration	Test Paint	NIST Standard	Red	Positive	1.06	
3	Calibration	Test Paint	NIST Standard	Red	Positive	1.08	
<b>South Building</b>							
4	Exterior Side D	Metal	Door	White	Negative	0	Intact
5	Exterior Side D	Metal	Door	White	Negative	0	Intact
6	Exterior Side D	Metal	Door	White	Negative	0	Intact
7	Exterior Side D	Metal	Door	White	Negative	0	Intact
8	Exterior Side D	Wood	Door Frame	White	Negative	0	Intact
9	Exterior Side D	Wood	Door Frame	White	Negative	0	Intact
10	Exterior Side D	Wood	Door Frame	White	Negative	0	Intact
11	Exterior Side D	Wood	Door Frame	Tan	Negative	0	Intact
12	Exterior Side D	Cement Board	Panel	Tan	Negative	0	Intact
13	Exterior Side D	Cement Board	Panel	White	Negative	0	Intact
14	Exterior Side D	Cement Board	Soffit	White	Negative	0	Intact
15	Exterior Side D	Cement Board	Soffit	White	Negative	0	Intact
16	Exterior Side D	Metal	Down Spout	White	Negative	0	Intact
17	Exterior Side D	Cement Board	Panel	Blue	Negative	0	Intact
18	Exterior Side D	Cement Board	Panel	Blue	Negative	0	Intact
19	Exterior Side D	Wood	Trim	Brown	Negative	0	Intact
20	Exterior Side D	Cement Board	Gas Meter Cover	Brown	Negative	0	Intact
21	Laundry Room	Gypsum Wallboard	Ceiling	White	Negative	0	Intact
22	Laundry Room A	Gypsum Wallboard	Wall	White	Negative	0	Intact
23	Laundry Room B	Gypsum Wallboard	Wall	White	Negative	0	Intact
24	Laundry Room C	Gypsum Wallboard	Wall	White	Negative	0	Intact
25	Laundry Room D	Gypsum Wallboard	Wall	White	Negative	0	Intact
26	Laundry Room B	Door	Metal	White	Negative	0	Intact
27	Laundry Room B	Door Frame	Wood	White	Negative	0	Intact
28	Storage Room	Ceiling	Ceiling	White	Negative	0	Intact
29	Storage Room	Gypsum Wallboard	Wall	White	Negative	0	Intact
30	Storage Room	Gypsum Wallboard	Wall	White	Negative	0	Intact
31	Storage Room	Gypsum Wallboard	Wall	White	Negative	0	Intact
32	Storage Room	Gypsum Wallboard	Wall	White	Negative	0	Intact
33	Exterior Side A	Cement Board	Panel	Blue	Negative	0	Intact
34	Exterior Side A	Cement Board	Panel	Tan	Negative	0	Intact
35	Exterior Side A	Cement Board	Siding	Brown	Negative	0	Intact
36	Exterior Side A	Trim	Wood	White	Negative	0	Intact
37	Exterior Side A	Cement Board	Soffit	White	Negative	0	Intact
38	Exterior Side A	Wood	Beam	White	Negative	0	Intact

Reading	Test Location	Substrate	Component	Color	Positive/Negative	XRF Reading	Condition
39	Exterior Side B	Metal	Door	White	Negative	0	Intact
40	Exterior Side B	Wood	Door Frame	White	Negative	0	Intact
41	Exterior Side B	Metal	Down Spout	White	Negative	0	Intact
42	Exterior Side B	Cement Board	Panel	Tan	Negative	0	Intact
43	Exterior Side B	Cement Board	Soffit	Tan	Negative	0	Intact
44	Exterior Side B	Metal	Door	White	Negative	0	Intact
45	Exterior Side B	Wood	Door Frame	White	Negative	0	Intact
46	Exterior Side B	Metal	Down Spout	White	Negative	0	Intact
47	Exterior Side B	Cement Board	Panel	Tan	Negative	0	Intact
48	Exterior Side B	Cement Board	Soffit	White	Negative	0	Intact
49	Exterior Side B	Metal	Door	White	Negative	0	Intact
50	Exterior Side B	Wood	Door Frame	White	Negative	0	Intact
51	Exterior Side B	Metal	Down Spout	White	Negative	0	Intact
52	Exterior Side B	Cement Board	Panel	White	Negative	0	Intact
53	Exterior Side B	Cement Board	Soffit	White	Negative	0	Intact
54	Exterior Side B	Metal	Door	White	Negative	0	Intact
55	Exterior Side B	Wood	Door Frame	White	Negative	0	Intact
56	Exterior Side B	Metal	Down Spout	White	Negative	0	Intact
57	Exterior Side B	Cement Board	Panel	Tan	Negative	0	Intact
58	Exterior Side B	Cement Board	Soffit	White	Negative	0	Intact
59	Exterior Side B	Metal	Gutter	White	Negative	0	Intact
60	Exterior Side B	Metal	Gutter	White	Negative	0	Intact
61	Exterior Side B	Cement Board	Trim	White	Negative	0	Intact
62	Exterior Side B	Cement Board	Trim	White	Negative	0	Intact
63	Exterior Side C	Cement Board	Panel	Blue	Negative	0	Intact
64	Exterior Side C	Cement Board	Panel	Tan	Negative	0	Intact
65	Exterior Side C	Cement Board	Trim	White	Negative	0	Intact
66	Exterior Side C	Cement Board	Trim	White	Negative	0	Intact
67	Exterior Side C	Cement Board	Siding	Brown	Negative	0	Intact
68	Exterior Side C	Cement Board	Soffit	White	Negative	0	Intact
69	Exterior Side C	Metal	Trim	Brown	Negative	0	Intact
70	Exterior Side C	Siding	Cement Board	Brown	Negative	0	Intact
71	Exterior Side C	Metal	Trim at Roof	Brown	Negative	0	Intact
72	Exterior Side C	Metal	Fence Pole	Black	Negative	0	Intact
<b>North Building</b>							
73	Exterior Side A	Cement Board	Panel	Green	Negative	0	Intact
74	Exterior Side A	Cement Board	Panel	Tan	Negative	0	Intact
75	Exterior Side A	Cement Board	Siding	Brown	Negative	0	Intact
76	Exterior Side A	Wood	Trim	White	Negative	0	Intact

Reading	Test Location	Substrate	Component	Color	Positive/Negative	XRF Reading	Condition
77	Exterior Side A	Cement Board	Soffit	White	Negative	0	Intact
78	Exterior Side A	Wood	Beam	White	Negative	0	Intact
79	Exterior Side D	Metal	Door	White	Negative	0	Intact
80	Exterior Side D	Wood	Door	White	Negative	0	Intact
81	Exterior Side D	Metal	Down Spout	White	Negative	0	Intact
82	Exterior Side D	Cement Board	Panel	Tan	Negative	0	Intact
83	Exterior Side D	Cement Board	Soffit	White	Negative	0	Intact
84	Exterior Side D	Metal	Door	White	Negative	0	Intact
85	Exterior Side D	Wood	Door	White	Negative	0	Intact
86	Exterior Side D	Metal	Down Spout	White	Negative	0	Intact
87	Exterior Side D	Cement Board	Panel	Tan	Negative	0	Intact
88	Exterior Side D	Cement Board	Soffit	White	Negative	0	Intact
89	Exterior Side D	Metal	Door	White	Negative	0	Intact
90	Exterior Side D	Wood	Door	White	Negative	0	Intact
91	Exterior Side D	Metal	Down Spout	White	Negative	0	Intact
92	Exterior Side D	Cement Board	Panel	Tan	Negative	0	Intact
93	Exterior Side D	Cement Board	Soffit	White	Negative	0	Intact
94	Exterior Side D	Metal	Door	White	Negative	0	Intact
95	Exterior Side D	Wood	Door	White	Negative	0	Intact
96	Exterior Side D	Metal	Down Spout	White	Negative	0	Intact
97	Exterior Side D	Cement Board	Panel	Tan	Negative	0	Intact
98	Exterior Side D	Cement Board	Soffit	White	Negative	0	Intact
99	Exterior Side D	Metal	Gutter	White	Negative	0	Intact
100	Exterior Side D	Metal	Gutter	White	Negative	0	Intact
101	Exterior Side D	Wood	Trim	White	Negative	0	Intact
102	Exterior Side D	Wood	Trim	White	Negative	0	Intact
103	Exterior Side C	Cement Board	Panel	Blue	Negative	0	Intact
104	Exterior Side C	Cement Board	Panel	Tan	Negative	0	Intact
105	Exterior Side C	Cement Board	Trim	White	Negative	0	Intact
106	Exterior Side C	Cement Board	Trim	White	Negative	0	Intact
107	Exterior Side C	Cement Board	Siding	Brown	Negative	0	Intact
108	Exterior Side C	Cement Board	Soffit	White	Negative	0	Intact
109	Exterior Side C	Metal	Trim	Brown	Negative	0	Intact
110	Exterior Side C	Metal	Fence Pole	Black	Negative	0	Intact
111	Exterior Side C	Wood	Trim	White	Negative	0	Intact
112	Exterior Side C	Wood	Trim	White	Negative	0	Intact
113	Exterior Side B	Metal	Door	White	Negative	0	Intact
114	Exterior Side B	Wood	Door	White	Negative	0	Intact
115	Exterior Side B	Cement Board	Panel	Tan	Negative	0	Intact

Reading	Test Location	Substrate	Component	Color	Positive/Negative	XRF Reading	Condition
116	Exterior Side B	Cement Board	Trim	White	Negative	0	Intact
117	Exterior Side B	Metal	Door	White	Negative	0	Intact
118	Exterior Side B	Wood	Door	White	Negative	0	Intact
119	Exterior Side B	Wood	Trim	White	Negative	0	Intact
120	Exterior Side B	Metal	Door	White	Negative	0	Intact
121	Exterior Side B	Wood	Door	White	Negative	0	Intact
122	Exterior Side B	Cement Board	Siding	Brown	Negative	0	Intact
123	Exterior Side B	Metal	Door	White	Negative	0	Intact
124	Exterior Side B	Wood	Door	White	Negative	0	Intact
125	Exterior Side B	Cement Board	Siding	Brown	Negative	0	Intact
126	Exterior Side B	Cement Board	Soffit	White	Negative	0	Intact
127	Exterior Side B	Metal	Gutter	White	Negative	0	Intact
128	Exterior Side B	Cement Board	Soffit	White	Negative	0	Intact
129	Exterior Side B	Metal	Gutter	White	Negative	0	Intact
130	Exterior Side B	Cement Board	Panel	Green	Negative	0	Intact
131	Exterior Side B	Cement Board	Panel	Green	Negative	0.02	Intact
132	Exterior Side B	Cement Board	Panel	Brown	Negative	0	Intact

**EMSL Analytical, Inc.**

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 Phone/Fax: 2062696310 / (206) 900-8789  
<http://www.emsl.com> [seattlelab@emsl.com](mailto:seattlelab@emsl.com)

EMSL Order: 511702034  
 CustomerID: PBSE51  
 CustomerPO:  
 ProjectID:

Attn: **Mark Hiley**  
**PBS Engineering & Environmental, Inc.**  
**2517 Eastlake Ave. East Ste. 100**  
**Seattle, WA 98102**

Phone: (206) 233-9639  
 Fax: (206) 762-4780  
 Received: 07/27/17 4:45 PM  
 Collected:

Project: **40573.133, Shelcor Apts**

**Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\***

<i>Client SampleDescription</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>RDL</i>	<i>Lead Concentration</i>
D-1 511702034-0001	Site: Unit 1 Foyer	7/28/2017	72 in <sup>2</sup>	20 µg/ft <sup>2</sup>	<20 µg/ft <sup>2</sup>
D-2 511702034-0002	Site: Unit 2 Foyer	7/28/2017	72 in <sup>2</sup>	20 µg/ft <sup>2</sup>	<20 µg/ft <sup>2</sup>
D-3 511702034-0003	Site: Unit 3 Foyer	7/28/2017	72 in <sup>2</sup>	20 µg/ft <sup>2</sup>	<20 µg/ft <sup>2</sup>
D-4 511702034-0004	Site: Unit 4 Foyer	7/28/2017	72 in <sup>2</sup>	20 µg/ft <sup>2</sup>	<20 µg/ft <sup>2</sup>
D-5 511702034-0005	Site: Unit 5 Foyer	7/28/2017	72 in <sup>2</sup>	20 µg/ft <sup>2</sup>	<20 µg/ft <sup>2</sup>
D-6 511702034-0006	Site: Unit 6 Foyer	7/28/2017	72 in <sup>2</sup>	20 µg/ft <sup>2</sup>	<20 µg/ft <sup>2</sup>
D-7 511702034-0007	Site: Unit 7 Foyer	7/28/2017	72 in <sup>2</sup>	20 µg/ft <sup>2</sup>	<20 µg/ft <sup>2</sup>
D-8 511702034-0008	Site: Unit 8 Foyer	7/28/2017	72 in <sup>2</sup>	20 µg/ft <sup>2</sup>	<20 µg/ft <sup>2</sup>

Lauren Kerber, Laboratory Manager  
 or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft<sup>2</sup> which is dependent on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Seattle, WA

Initial report from 07/28/2017 12:35:07



**EMSL**

#511702034

LABORATORY CHAIN OF CUSTODY

Project: Shelcor Apts.

Project #: 40573.133

Analysis requested: Lead Dust Wipe Samples-FAA

Date: 7/27/17

Relinquished by/Signature: Janet Murphy

Date/Time: 7/27/17

Received by/Signature: Prudy

Date/Time: 7/27/17 4:45

**E-mail results to:**

- Brian Stanford
- Willem Mager
- Gregg Middaugh
- Mark Hiley
- Tim Ogden
- Prudy Stoudt-McRae
- Cel Alvarez
- Janet Murphy
- Kaitlin Soukup
- Martin Estira
- Chuck Greeb
- Mike Smith
- Ferman Fletcher
- Holly Tuttle
- Melissa Mearns

**TURN AROUND TIME:**

- 1 Hour
- 2 Hours
- 4 Hours
- 24 Hours
- 48 Hours
- 3-5 Days
- Other \_\_\_\_\_

**SAMPLE DATA FORM**

Sample #	Material	Location	Lab
D-1	Dust wipe 9"x8"	Unit 1 Foyer	<b>EMSL</b>
D-2	Dust wipe 9"x8"	Unit 2 Foyer	
D-3	Dust wipe 9"x8"	Unit 3 Foyer	
D-4	Dust wipe 9"x8"	Unit 4 Foyer	
D-5	Dust wipe 9"x8"	Unit 5 Foyer	
D-6	Dust wipe 9"x8"	Unit 6 Foyer	
D-7	Dust wipe 9"x8"	Unit 7 Foyer	
D-8	Dust wipe 9"x8"	Unit 8 Foyer	



**EMSL Analytical, Inc.**

3317 3rd Ave S, Suite D 2nd floor, Seattle, WA 98134  
Phone/Fax: 2062696310 / (206) 900-8789  
<http://www.emsl.com> [seattlelab@emsl.com](mailto:seattlelab@emsl.com)

EMSL Order: 511702035  
CustomerID: PBSE51  
CustomerPO:  
ProjectID:

Attn: **Mark Hiley**  
**PBS Engineering & Environmental, Inc.**  
**2517 Eastlake Ave. East Ste. 100**  
**Seattle, WA 98102**

Phone: (206) 233-9639  
Fax: (206) 762-4780  
Received: 07/27/17 4:45 PM  
Collected:

Project: **40573.133, Shelcor Apts**

**Test Report: Lead in Soils by Flame AAS (SW 846 3050B/7000B)\***

<i>Client SampleDescription</i>	<i>Collected</i>	<i>Analyzed</i>	<i>RDL</i>	<i>Lead Concentration</i>
S1 511702035-0001		7/28/2017 Site: Soil composite from dripline, North Bldg	40 mg/Kg	41 mg/Kg
S2 511702035-0002		7/28/2017 Site: Soil composite from dripline, South Bldg	40 mg/Kg	47 mg/Kg

Lauren Kerber, Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Soil/Solids by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 40 mg/kg based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. Results reported based on dry weight. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.  
Samples analyzed by EMSL Analytical, Inc. Seattle, WA

Initial report from 07/28/2017 12:45:52



**TAB 2**  
**Certifications**

---



# STATE OF WASHINGTON

## Department of Commerce Lead-Based Paint Program

**Janet J. Murphy**

*Has fulfilled the certification requirements of Washington Administrative code (WAC) 365-230 and has been certified to conduct lead-based paint activities pursuant to WAC 365-230-200 as a:*

### **Risk Assessor**

**Certification #**

0258

**Issuance Date**

3/23/2016

**Expiration Date**

3/8/2019

**STATE OF WASHINGTON**

**Department of Commerce**

Lead-Based Paint Abatement Firm

**PBS Engineering & Environmental Inc.**

*Has fulfilled the certification requirements of  
WAC 365-230  
and has been certified to conduct lead-based  
paint activities.*

**Certification #**

178

**Issuance Date**

05/24/2017

**Expiration Date**

09/03/2019



## AIHA Laboratory Accreditation Programs, LLC

*acknowledges that*

### **EMSL Analytical, Inc.**

3317 3rd Avenue S, Suite D, Seattle, WA 98134

Laboratory ID: 167337

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

#### **LABORATORY ACCREDITATION PROGRAMS**

- |   |  |
|---|--|
| <input type="checkbox"/> <b>INDUSTRIAL HYGIENE</b>                    | Accreditation Expires:                   |
| <input checked="" type="checkbox"/> <b>ENVIRONMENTAL LEAD</b>         | Accreditation Expires: June 01, 2019     |
| <input checked="" type="checkbox"/> <b>ENVIRONMENTAL MICROBIOLOGY</b> | Accreditation Expires: December 01, 2018 |
| <input type="checkbox"/> <b>FOOD</b>                                  | Accreditation Expires:                   |
| <input type="checkbox"/> <b>UNIQUE SCOPES</b>                         | Accreditation Expires:                   |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website ([www.aihaaccreditedlabs.org](http://www.aihaaccreditedlabs.org)) for the most current Scope.

William Walsh, CIH  
Chairperson, Analytical Accreditation Board

Cheryl O. Morton  
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 15: 03/30/2016

Date Issued: 05/31/2017



## AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

### EMSL Analytical, Inc.

3317 3rd Avenue S, Suite D, Seattle, WA 98134

Laboratory ID: **167337**

Issue Date: 05/31/2017

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air and composited wipes analyses are not included as part of the NLLAP.

### Environmental Lead Laboratory Accreditation Program (ELLAP)

**Initial Accreditation Date: 06/01/2017**

Field of Testing (FoT)	Technology sub-type/ Detector	Method	Method Description <i>(for internal methods only)</i>
<b>Paint</b>		EPA SW-846 3050B	
		EPA SW-846 3051A	
		EPA SW-846 7000B	
<b>Soil</b>		EPA SW-846 3050B	
		EPA SW-846 3051A	
		EPA SW-846 7000B	
<b>Settled Dust by Wipe</b>		EPA SW-846 3050B	
		EPA SW-846 3051A	
		EPA SW-846 7000B	
<b>Airborne Dust</b>		NIOSH 7082	

A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>