Lead-based Paint Survey and Risk Assessment

Applicant ID SBL39524
35 South Annapolis Ave Atlantic City, NJ 08401

Construction Year: Unavailable
Final Field Assessment Date: 12/04/14 and12/08/2014

SUMMARY OF FINDINGS

Number of Units Evaluated:	1
Total Number of Units:	1
Lead-based Paint:	No
Lead-based Paint in Locations of Deteriorated Paint:	No
Lead-based Paint Hazards (Soil-lead or Dust-lead):	No

APPLICANT

PROVIDENCE SEASHORE HOUSE, LLC
ATLANTIC CITY, NJ 08401
609.929.2700 phone

SITE

35 South Annapolis Ave
Atlantic City, NJ 08401

SUBMITTED BY

URS CORPORATION (NEW JERSEY)
1255 BROAD STREET, SUITE 201
CLIFTON, NJ 07013

Project No: 15807778.01000

SUBMITTED TO

NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ENVIRONMENTAL REVIEW CDBG-DR PROGRAM
101 SOUTH BROAD STREET
TRENTON, NJ 08625

Prepared by Risk Assessor: Brian Rodriguez 12/11/2014
Date

This Page Left Intentionally Blank

Table of Contents

TABLES

APPENDICES

Section 1: Executive Summary

1.1 Introduction

URS CORPORATION (NEW JERSEY CONSULTANT) contracted with NEW JERSEY DEPARTMENT OF COMMUNITY AFFAIRS to conduct this Lead-Based Paint Survey and Risk Assessment of 35 South Annapolis Avenue Atlantic City, NJ. The final field portion of the Evaluation was conducted on 12/04/2012 and 12/08/2014.

The purpose of this Evaluation is limited to providing the Client a report concerning lead-based paint, and/or lead-based paint hazards specified in the Evaluation, and evident at the Job Site at the time of the Evaluation. It is the Consultant's understanding that the Client will utilize this Evaluation solely to make a determination as to the regulatory levels of lead-based paint and/or lead-based paint hazards.

Client understands that the actual testing is not 100% and that all testing/sampling is conducted on a representative sample selection basis in accordance with United States Department of Housing and Urban Development Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, Chapter 7 Lead-Based Paint Inspection, 2012 Edition.

This Evaluation will be used to prepare cost estimates. The Consultant does not assume responsibility for the discovery and elimination of potential hazards that could cause accidents, injuries, or damage. This Evaluation includes conditions, operations, and practices as observed during the Evaluation. Changes, procedural modifications, or facility renovations made after the Evaluation are not included.

The Evaluation contains independent conclusions and recommendations representing the Consultant's best professional judgment based on information and data available during the course of this Evaluation. Factual information regarding operations, conditions, and test data provided by the Client or its representative has been assumed to be correct and complete. Since the facts included in this report are subject to professional interpretation, various conclusions could result. Additionally, the conclusions and recommendations presented are based on the conditions that existed on the date of the Evaluation. If the recommendations presented are not implemented within a reasonable period of time, future conditions could occur which would alter the conclusions and recommendations of this report.

Because of the nature of the assignment, this report should not be used for any purpose other than that indicated. Any (i) application, and/or use of the information and recommendations presented here for any purpose other than the intended purpose; or (ii) its application and/or use by any entity other than the original Client, shall constitute an agreement to defend and indemnify the Consultant from and against any and all liability in connection with the performance of these services and the information contained herein, whether arising out of the Consultant's negligence or otherwise. No changes to this report, its form, or content can be made without the Consultant's express written consent. The Consultant's liability associated with this report is limited to the fee paid by the Client for this Evaluation. Consultant does not accept any

third party action or liability. Regardless of theory, action, or compliant, Consultant's liability will not exceed the fee of the Evaluation paid to Consultant from Client.

The information in this report must be disclosed to all existing and new residents and to any new buyer in the future, under the Lead Disclosure Rule (24 CFR Part 35, Subpart A (HUD's rule) and 40 CFR Part 745, Subpart F (EPA's identical rule)).

1.2 Summary of Property Evaluation

The Consultant found that lead-based paint hazards (illustrated in Table 1-4) were not present at the Job Site on the date of the evaluation. The table below identifies lead-based paint and/or lead-based paint hazards as defined by the U.S. Environmental Protection Agency (EPA) within the Job Site.

The Evaluation determined no paint-lead hazards as defined by EPA. For specific locations and additional detail on the locations of deteriorated lead-based paint reference Table 1-5: Locations of Deteriorated Lead-based Paint. Based on the grouping procedures in

Table 1-1: Job Site Summary

Job Site Number: SBL39524	Job Site Name: 35 South Annapolis Avenue
Lead-based Paint Present:	No
Lead-based Paint in Locations of Deteriorated Paint:	No
Dust-lead Hazards Present:	No
Soil-lead Hazards Present:	No
This property is exempt from HUD's Lead Safe Housing Rule. The Property Owner and/or its designated representative is encouraged to take actions to remedy the lead hazard(s) in the reported location(s) and similar locations.	

1.2.1 Building Groups

Individual building(s) were grouped into similar groups of buildings in accordance with HUD Guidelines. This ensures consistency during the evaluation of the property. The building(s) and exterior site(s) were grouped according to: 1) construction date, 2) construction type, and/or 3) written documentation or visual evidence of similar construction materials criteria. The table provided below list the groups and the buildings within each group:

There is one building.

Table 1-2: The Building		
Job Site Number: SBL39524	Job Site Name: 35 South Annapolis Avenue	
Group	**Constructed**	
	Year	**Type**
Stage 1	Unavailable	Child Care Facility
Total Number of Buildings: 1	Total Number of Units: 1	Total Number of Units Inspected: 1

1.3 Summary of Lead-based Paint

No lead-based paint was found on the Job Site above the EPA regulatory level. See Section 2.2, Lead Regulatory Levels, Table 2-2. All paint was in good condition. One XRF reading (#452) came up as positive with a value of 1.5 g/cm3. Two QA measurements were immediately taken in the same location (#453 and #454) and both came back as negative with a value of 0.0 g/cm3. The positive reading can be discarded, and the testing combination in question (Drywall Ceiling in activity room) can be classified as negative. All other testing combinations were negative.

Please Note: HUD and EPA have provided specific definitions for the terms deteriorated paint, intact paint, and de minimis (small or minimal) levels when these terms are used to describe surface coating conditions and areas. De minimis (small or minimal) is defined in Table 1-3, HUD Definitions. Deteriorated paint is defined as any interior or exterior paint or other coating that is peeling, chipping, chalking, or cracking or any paint or coating located on an interior or exterior surface or fixture that is otherwise damaged or separated from the substrate. To aid in the interpretation of the paint condition information, please refer to the following HUD definitions and criteria for specific interior and exterior surfaces. HUD uses the phrase significant deterioration´ to refer to amounts of deterioration greater than the de minimis (small or minimal) levels. Similarly, significant disturbance´ refers to amounts of disturbance, such as in a large rehabilitation project, greater than the de minimis (small or minimal) levels.

Table 1-3: HUD Definitions		
Building Component(s)	**Intact Paint**	***De minimus*** **(small or minimal) Levels of Deteriorated Paint**
Exterior components with large surface areas (siding, etc.)	Entire surface is intact	Deteriorated paint on less than or equal to 20 square feet of exterior surfaces
Interior components with large surface areas (walls, ceilings, etc.)	Entire surface is intact	Deteriorated paint is observed at less than or equal to 2 square feet of surface in any one interior room or space
Component types with small surface areas (soffits, baseboards, trim, etc.)	Entire surface is intact	Deteriorated paint is observed at less than or equal to 10% of the total surface area of a component type with a small surface area
Note: See 24 CFR 35.1350(d)(1)-(3) for complete information on de minimis (small or minimal) levels.		

Paint conditions and exact location of paint deterioration for specific tested dwelling unit(s), building common area(s) or property common area(s) are reported in this document under Section 4, Appendix D: Paint Condition Survey Results.

Areas and/or components coated with lead-based paint that are currently intact do not constitute a lead hazard. However, be certain to follow the operation and maintenance plan and use lead-safe work practices when dealing with any surfaces that are known or assumed to contain lead-based paint.

1.4 Summary of Lead-based Paint Hazards

EPA with 40 CFR Part 745.65 (a), (b) and (c) defines Lead-based Paint Hazards as:

(a) Paint-lead hazard is any of the following:

(1) Any lead-based paint on a friction surface that is subject to abrasion and where the lead dust levels on the nearest horizontal surface underneath the friction surface (e.g., the window sill, or floor) are equal to or greater than the dust-lead hazard levels identified in paragraph (b) of this section.

(2) Any damaged or otherwise deteriorated lead-based paint on an impact surface that is caused by impact from a related building component (such as a door knob that knocks into a wall or a door that knocks against its door frame).

(3) Any chewable lead-based painted surface on which there is evidence of teeth marks.

(4) Any other deteriorated lead-based paint in any residential building or child-occupied facility or on the exterior of any residential building or child-occupied facility.

(b) Dust-lead hazard is surface dust in a residential dwelling or child-occupied facility that contains a mass-per-area concentration of lead equal to or exceeding 40 μg/ft2 on floors or 250 μg/ft2 on interior window sills based on wipe samples.

(c) Soil-lead hazard. A soil-lead hazard is bare soil on residential real property or on the property of a child-occupied facility that contains total lead equal to or exceeding 400 parts per million in a play area or average of 1,200 parts per million of bare soil in the rest of the yard based on soil samples.

EPA further goes on to explain in 40 CFR 745.227 (h)(3)(i), (ii) and (iii) that a dust-lead hazard is present:

(1) In a residential dwelling on floors and interior window sills when the weighted arithmetic mean lead loading for all single surface or composite samples of floors and interior window sills are equal to or greater than 40 micrograms per square foot (μg/ft2) for floors and 250 μg/ft2 for interior window sills, respectively;

(2) On floors or interior window sills in an unsampled residential dwelling in a multi-family dwelling, if a dust-lead hazard is present on floors or interior window sills, respectively, in at least one sampled residential unit on the property; and,

(3) On floors or interior window sills in an unsampled common area in a multi-family dwelling, if a dust-lead hazard is present on floors or interior window sills, respectively, in at least one sampled common area in the same common area group on the property.

and, as specified in 40 CFR 745.227(h)(4)(i) and (ii), a soil-lead hazard is present:

(1) In a play area when the soil-lead concentration from a composite play area sample of bare soil is equal to or greater than 400 parts per million; or

(2) In the rest of the yard when the arithmetic mean lead concentration from a composite sample (or arithmetic mean of composite samples) of bare soil from the rest of the yard (i.e., non-play areas) for each residential building on a property is equal to or greater than 1,200 parts per million.

Table 1-4: Dust-lead and Soil-lead Hazards			
Job Site Name: 35 South Annapolis Avenue			**Job Site Number:** SBL39524
Building Designation: Child Care Facility	**Area:** 7,700 ft^2		**Date of Construction:** Unavailable
Hazard Type: None	No lead based hazards were found		

1.5 Summary of Regulatory Requirements and Recommendations

The results of this evaluation indicate that lead-based paint in amounts greater than or equal to 1 mg/cm² in paint was not found on any of the tested building components, using the inspection protocol in Chapter 7 of the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (2012 Revision). Therefore, this Job Site qualifies for the exemption from the Lead Safe Housing Rule in 24 CFR part 35 for Target Housing.

A Job Site found to be free of lead-based paint according to the Federal definition means that in the areas tested no surface coating was found that meets or exceeds the Federal Regulatory level. However, reasonable care should be taken during any paint disturbance to minimize dust and debris, as some paint may contain lead at lower levels.

This Job Site does not contain lead hazards in the form of dust hazards as defined by EPA. We recommend that the Job Site Owner and/or its designated representative control the hazards in order to ensure that children are protected, even though not required by Federal regulations. Control measures related to treating the identified lead-based paint hazards may be found in Section I.9 of the Executive Summary, and in Section 3, and Section 4, Appendix H. The Job Site Owner and/or its designated representative may contact the EPA, local or State lead authority or a certified risk assessor for further information on proper control measures.

1.6 Lead Disclosure Requirements

The Residential Lead-based Paint Hazard Reduction Act of 1992 requires Property Owners and/or the designated representatives to disclose the findings of this report to resident(s) within a prescribed period if lead-based paint is present. In addition, depending on the findings of the evaluation, a Property Owner and/or its designated representative may be required to conduct additional disclosure activities. As a result, based on the findings of this evaluation the following disclosure statements apply:

Lead-based paint, as defined by EPA and/or the State, was not identified at the property.

The Residential Lead-Based Paint Hazard Reduction Act of 1992 directed EPA and HUD to jointly issue regulations requiring disclosure of known lead-based paint and/or lead- based paint hazards by persons selling or leasing housing constructed prior to 1978. These regulations (with identical wording 24 CFR Part 35, and 40 CFR Part 745), known as the Lead Disclosure Rule, were published on March 6, 1996.

At a minimum, an approved summary of this evaluation must be provided to new lessees (residents) and purchasers of this property under federal law (24 CFR Part 35 and 40 CFR Part 745) before they become obligated under a lease or sales contract. The complete report must be provided upon request to both purchaser and resident. Lessors and sellers are also required to distribute an educational pamphlet approved by the EPA and include a standard Lead Warning Statement in their leases or sales contracts to ensure that the public has the information they need to protect their children from lead-based paint hazards.

1.7 Minimum Requirements to Control Lead-based Paint Hazards

This Job Site was found to be free of lead-based paint according to the Federal or State definition. This Job Site does not contain lead hazards in the form of Dust-lead Hazards as discussed in table 1-4. HUD urges the Property Owner and/or its designated representative control the hazards in order to ensure that children are protected, even though not required by Federal or State regulations. Recommended control measure as discussed in the following Sections.

1.7.1 Lead-based Paint in Areas of Deteriorated Paint

There are no lead-based paint in areas of deteriorated paint locations and the Property Owner and/or its designated representative is not required to take any further action.

1.7.2 Dust Lead Hazards

Dust lead hazards were not found in the buildings listed in Table 1-4. Property Owners and/or the designated representatives are required to take no further action.

Section 2: Lead-based Paint Survey and Risk Assessment (Evaluation) Report

2.1 Overview of the Evaluation

2.1.1 Introduction

The final field assessment for a lead-based paint survey and a lead-based paint risk assessment (Evaluation) was conducted at the property 35 South Annapolis Avenue, Atlantic City, NJ, Property ID # SBL39524, on 12/04/2014 and 12/08/2014. URS CORPORATION (NEW JERSEY), a certified Risk Assessment firm in NJ, conducted the evaluation. Brian Rodriguez (permitted under designation 022422), a State Certified Risk Assessor or Lead-based Paint Inspector in NJ, performed the fieldwork. The credentials of this staff member and of the staff member's employing firm are described in Appendix G: Certifications, Licenses, and Accreditations. The purpose of the evaluation was to determine the presence and location of lead-based paint hazards and lead-based paint.

These evaluation activities will help the Property Owner and/or its designated representative to ensure the health and safety of the residents, especially children, and the workers. As part of the evaluation, a visual assessment of the tested components was performed, a lead-based paint evaluation was performed, and dust wipe samples were taken. A lead-based paint evaluation using an X-ray fluorescence (XRF) lead-in-paint analyzer was performed in each selected dwelling unit, basement, and common area. See Section 4, Appendix A: Property Information, for complete building information.

2.1.2 Description of Job Site

The Job Site consisted of testing one (1) child care facility. Detailed information on the Job Site, which includes site plan and unit plan(s), is provided in Section 4, Appendix A.

2.2 Lead Regulatory Levels

The lead regulatory levels provided below are those used when preparing this lead-based paint evaluation or when evaluating data collected. The EPA regulatory levels are the same as the state regulatory levels provided in the following table.

Table 2-1: Lead Regulatory Levels		
Job Site Number: SBL39524	**Job Site Name:** 35 S. Annapolis Ave	
	EPA Levels	**New Jersey Levels**
Lead-based Paint	>/= 1.0 milligrams per square centimeter or >/= 0.5% by weight (or 5,000 ppm)	>= 1 milligrams per square centimeter or >/= 0.5% by weight (or 5,000 ppm)
Lead in Dust		
Floor	>/= 40 micrograms per square foot	>/= 40 micrograms per square foot
Window Sill	>/= 250 micrograms per square foot	>/= 250 micrograms per square foot
Lead in Bare Soil		
Child-Play Areas (dwelling perimeter and yard)	400 ppm (parts per million)	400 ppm (parts per million)
Rest of the Yard (dwelling perimeter and yard)	1200 ppm (parts per million)	1200 ppm (parts per million)

2.3 Lead-based Paint Survey Protocols

2.3.1 Evaluation Equipment

When paint was tested for lead, the Consultant typically utilized a NITON model XLP Series X-ray fluorescence (XRF) spectrum analyzer, running software version 5.1 (or equivalent), with a Cadmium109 source utilized in the K&L Spectrum mode to determine the concentration of lead in paint.

The serial number of the instrument is 7510. The current age of the radioactive source is 26.65mCi.

The results of the lead-based paint survey are evaluated in accordance with the manufacturer's performance characteristics sheet. All measurements made with the XRF came back as negative except for reading number #452.

To assure accuracy and precision of the instrument, the spectrum analyzer is self-calibrated each time the instrument is turned on (e.g. after turning on the unit or battery change). Internal machine self- calibration occurs automatically.

Furthermore, at the beginning (Initial Calibration) and end (Final Calibration) of each day of the evaluation, the spectrum analyzer calibration is validated with a laminated Lead Paint Standards

testing card as provided by the manufacturer. The manufacturer supplied standards are traceable to the NIST kit SRM 2579a. The traceability pathway is by direct comparison of the paint standard to a NIST kit SRM 2579a with a spectrum analyzer.

Initial and Final calibration validations are completed against one standard, 1.0 mg/cm², on the³Surface Lead side of the testing card; In addition, periodically during the course of evaluation (not to exceed every four hours), the calibration of the spectrum analyzer is validated. The periodic calibration validation is conducted by using the surface side of the 1.0 mg/cm² manufacturer's supplied standard three readings on the 1.0 mg/cm² standard and then calculating the average of the three readings.

The Inspector will read the standard(s) until the instrument displays a value between acceptable ranges (which approximate the certified values of the samples as provided by the manufacturer) and are recorded on the XRF calibration logs (Appendix C).

2.3.2 Evaluation Protocols, Exceptions, and Variations

Evaluation exceptions and variations can be found in B-2: Locations Removed from the Evaluation and Special Conditions.

2.3.3 Lead-based Paint

For the lead-based paint survey portion of the Evaluation, the Job Site was tested for lead-based paint using selected portions of the inspection protocol of Chapter 7 of the HUD Guidelines for the Evaluation and Control of Lead-based Paint Hazards in Housing (2012 Revision) to determine whether lead-based paint is present in the house, dwelling unit, residential building, or housing development, including common areas and exterior surfaces, and, if present, which building components contain lead-based paint.

A testing combination is a unique combination of room equivalent, building component type and substrate. The selection of the test location for a specific testing combination was representative of the paint over the areas which were most likely to be coated with old paint or other lead-based coatings.

The following table, examples of interior and exterior building component types, delineates typical areas and testing combinations that are sampled. Unlisted components that are coated with paint, varnish, shellac, wallpaper, stain, or other coatings were also considered as separate testing combinations.

Commonly Encountered Interior Painted Surfaces That Should Be Tested Include:	
Balustrades	Floors
Baseboards	Handrails
Bathroom Vanities	Newel Posts
Beams	Other Heating Units
Cabinets	Radiators

Ceilings	Shelf Supports
Chair Rails	Shelves
Columns	Stair Stringers
Counter Tops	Stair Treads and Risers
Crown Molding	Stools and Aprons
Doors and Trims	Walls
Fireplaces / Mantles	Window Sashes and Trim
Exterior Painted Components (if accessible) That Should Be Tested Include:	
Balustrades	Lattice Work
Bulkheads	Painted Roofing
Chimneys	Railing Caps
Columns	Rake Boards
Corner Boards	Sashes
Fascias	Soffits
Floors	Stairs and Risers
Gutters and Downspouts	Stair Stringers
Joists	Window Trim
Handrails	
Other Exterior Painted Components Include:	
Fences	Storage Sheds & Garages
Laundry Line Posts	Swing Sets and Other Play Equipment

2.4 Risk Assessment Overview

The risk assessment is an on-site investigation to determine the existence, nature, severity, and location of lead-based paint hazards, and the provision of a report by the individual or the firm conducting the risk assessment, explaining the results of the investigation and options for reducing lead-based paint hazards. A risk assessment conforming to HUD guidelines was performed within the same tested unit(s) and common area(s) where the lead-based paint survey was conducted. The risk assessment was conducted by the risk assessor who conducted the lead-based paint survey; the inspector is listed in Section 2.1.1, Lead-Based Paint Inspection; inspector credentials are described in Appendix E: Certifications, Licenses, and Accreditations.

There are several types of lead-based paint hazards. Section 1.4 presents the risk assessment findings for types of lead-based paint hazards that could be found during a risk assessment.

Practice for Field Collection of Settled Dust Samples Using Wipe Sampling Methods for Lead Determination by Atomic Spectrometry Techniques, or its HUD-approved equivalent, was used for settled dust collection. On floors, tests of settled dust included collection of dust samples from an area having a minimum collection area of one square foot. On window sills and other rectangular surfaces, tests of settled dust included collection of dust samples from an area having a minimum collection area of 0.1 square foot. Area dimensions were collected and recorded in inches to the nearest 1/16th of an inch. The collected dust samples with the collection

dimensions (in inches) were submitted to the selected laboratory, and analysis results from the laboratory required for Risk Assessment Reporting are reported in Appendix E.

Thirty (30) dust wipes were collected near friction or impact spots or in areas nearest to deteriorated paint:

On-site Community Centers, Day Care, Recreational, or other Common Areas Frequented by Children:

For spaces up to 2,000 square feet:

1. Floors: Two samples from widely separated locations in high-traffic areas regularly used or frequented by children

2. Windows: One sample from an interior window sill

For spaces over to 2,000 square feet:

1. Floors: One additional sample for each increment of 2,000 square feet

2. Windows: One sample from an interior window sill for each increment of 2,000 square feet

Practice for the Field Collection of Soil Samples for Lead Determination by Atomic Spectrometry Techniques, or its HUD-approved equivalent, were used for soil collection. Collected soil samples were submitted to our selected laboratory for lead determination, and analysis results from the laboratory required for Risk Assessment Reporting is reported in Appendix F.

Areas sampled for lead in soil include:

1. Each exterior children's play area where bare soil is present; and,

2. Drip-line/foundation where bare soil is present.

In order to reduce variability, soil samples collected are "composite" samples, meaning that soil collected from more than one spot is mixed with soil from another spot of the same sample type (i.e. children's play area, dripline/foundation and/or midyard). Each composite sample usually consists of 5 - 10 sub-samples mixed together. The play area and midyard bare soil sample areas are divided by an X-shaped grid and the sub-samples are collected at equidistant points along each axis as site conditions permit. Note, however, that sampling bare areas is more important than maintaining a straight line along the grid. If there is no bare soil observed, such as areas covered by pavement or concrete, dense grass, ivy, mulch, or other ground covering material, no soil sampling is conducted.

2.4.1 Equipment Quality Control

If a Thermo NITON XRF instrument was utilized during the survey, an XRF resolution of less than 450eV was achieved and maintained throughout the survey. Calibration readings within the acceptable range were achieved and maintained throughout the survey. If acceptable resolution and/or calibration ranges were not achieved, the XRF unit was taken out-of-service and the lead-based paint survey stopped until the problem was resolved and corrected. Readings collected after the last acceptable resolution and/or calibration were deemed invalid and the data were discarded and re-sampled.

For additional quality control safeguards, ten representative testing combinations were selected for re-testing by XRF. The ten repeat XRF results are compared with the ten XRF results previously made on the same testing combinations Quality Control data results are included in Appendix J.

2.4.2 Environmental Sampling Quality Control

The designated laboratory provided dust wipe spike samples. The designated laboratory also provided soil spike samples. Soil spike samples were submitted blindly at a rate of at least 1 per 20 samples. The spikes are used to verify the laboratory analysis data and to confirm the consistency of the data.

Environmental sampling quality control data results are included in the appendices.

2.4.3 Inaccessible Areas / Protocol Variations

The evaluation was only of readily accessible areas. Generally, the following areas were considered inaccessible:

1. Original walls or ceiling surfaces enclosed with wallboard or similar material.
2. Locked areas.
3. Space which would require destructive measures (i.e., cutting, hammering, removing, etc.) to gain access.
4. Space greater than 8' from the floor or grade.

Additional, specific areas to which access was not possible are included in Appendix B. Protocol variations and special conditions encountered during the Evaluation are included in Appendix B.

Appendix A

Special Conditions:

- XRF testing combinations were not the same in every room. Not every room in the building had windows, painted ceilings, painted floors, or doors. These special conditions were noted at the bottom of page of XRF data (Appendix B-1) by the inspector.
- Since the XRF data collection was done by hand, some of the XRF data sheets contains symbols such as " " or arrows pointing downward. These symbols were used to indicate that the above information also applies to this line and, therefore, the testing combination in question. Due to the large scope of this project, this was done in an effort to save time.
- The XRF data sheets all refer to "Single-Family Housing" in the title. The inspector is aware that this facility was not Single-Family Housing, but rather a Child Care facility. The proper inspection protocols were used for this facility. These data sheets were only used because they were the most similar and convenient of the forms provided by HUD's website.
- The basement of the building does not have any painted surfaces and rarely has any human occupancy, so no XRF readings or dust wipe samples were taken.

Quality Assurance:

- A minimum of ten XRF readings were repeated in the same location as the reading before as an extra step of Quality Assurance to ensure accurate XRF measurements. These readings have been noted in Appendix B-1 with the symbol (*) to the left of the data entry.
- The original dust wipe QA (sample 2-31) came back with a lead concentration of 130 micrograms/ft2, which is not within the acceptable 80% to 120% range of the true value of the sample, 251.4 microgram/wipe as provided by EMSL. Two additional spikes and blanks were sent on 12/10/14 to confirm quality on the dust wipe samples taken on 12/08/14. The results of these four QA samples were received on 12/11/14 with acceptable values, ensuring that the samples taken on 12/08/14 can be trusted. The table below summarizes the results of these four samples.

Sample Name	Type	Expected Result (ug/ft2)	Acceptable Range(ug/ft2)	Actual Result(ug/ft2)
121014-1	**Spike**	**145**	**116-174**	**160**
121014-2	**Spike**	**145**	**116-174**	**120**
121014-3	**Blank**	**0**	**0-10**	**<10**
121014-4	**Blank**	**0**	**0-10**	**<10**

- The soil spike was accurate with a value of 3200 mg/kg (true value 3242 mg/kg).
- One XRF reading (#452) came back as positive with a value of 1.5 g/cm3. Two QA measurements were immediately taken in the same location and both came back as negative with a value of 0.0 g/cm3. The positive reading can be discarded, and testing combination in question (Drywall Ceiling in activity room) can be classified as negative.

Appendix B: XRF Sampling

Appendix B-1: XRF Data by Room Equivalent

Appendix B-2: XRF Performance Characteristic Sheet

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S Annapolis Ave Atlantic City, NJ Date 12/4/14

Room Equivalent Waiting Area

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
13	Drywall	Wall	tan	(XRF) A Wall A Center	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
14	"	"	"	Wall B Center Left	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg.
15	"	"	"	Wall C Bottom Right	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg.
16	"	"	"	Wall D Center	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg.
17	Wood	Chair Rail	Light Blue	Chair Rail, Wall A	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg.
(XRF) ~~14~~ 21	Drywall	Ceiling	tan	Top Right Wall	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
22	Wood	Sill	White	Wall A, Window 1	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
23	"	Casing	"	" " " "	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg.
24	"	Frame	"	" " " "	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
25	"	Sash	"	" " " "	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg.
26	"	Sill	Yellow	Wall A, Window 3	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
27	"	Casing	Green	" " " "	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
28	"	"	Purple	" " " "	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
29	"	"	Orange	" " " "	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
30	"	Casing	Red	Wall B, Window 1	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
32	"	~~Casing~~ Chair Rail (XRF)	Blue	Wall B, Window 3	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
33	"	Frame	"	" " " "	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
31	"	Frame	Red	Wall B, Window 1	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg.
34	Wood	Counter	Yellow	Wall B, Countertop	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
35	Drywall	Wall	Grey	Wall B, Counter	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg.
										mg/cm² %	
										mg/cm² %	

1997 Revision

Form 7.1

* No doors, Carpet floor.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave Atlantic City, NJ Date 12/4/14

Room Equivalent Reception

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
36	Dry Wall	Wall	tan	Wall A, Bottom Center	0.0	NA	0.0 ~~Neg~~	Neg	NA	mg/cm² %	Neg
37	plastic	Outlet	tan	Wall A, Power Outlet 3	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
38	Drywall	Wall	tan	Wall B, Center	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
39	"	Wall	tan	Wall C, Center	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
40	"	"	"	Wall D, Center Left	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg.
41	"	"	"	Ceiling	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg.
42	Wood	Desk	Grey	Wall D, Desk	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
43	Wood	Cabinet	Grey	Wall C, Cabinet	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg.
44	Metal	Vent	Grey	Wall B, Vent	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg.
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

* Floor Carpeting, no doors, no windows.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave Atlantic City, NJ Date 12/4/14

Room Equivalent Entry way #1

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
45	Drywall	Wall	tan	Wall A, Center Left.	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
46	"	"	tan	Wall B, Bottom Left	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
47	"	"	"	Wall C, Center	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg.
49	"	"	"	Wall B, Center Left	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg.
50	plastic	toe board	grey	Wall C, toe board	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg.
51	wood	Casing	grey	Wall C, door	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg.
52	wood	frame	grey	Wall C, door	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg.
53	wood	door	grey	Wall C, door	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg.
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent ~~Mechanical Room #1~~ (60) Janitor's Closet #1

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
54	Drywall	Wall	Light Pink	Wall B, Top Left	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
55	"	"	" "	Wall C, Center	0.0	"	0.0	Neg	"	mg/cm² %	Neg
56	"	"	" "	Wall D, Center	0.0	"	0.0	Neg	"	mg/cm² %	Neg
* 57	"	"	" "	Wall D, Center	0.0	"	0.0	Neg	"	mg/cm² %	Neg
58	wood	~~Key box~~ Wood Strip (61)	" "	Wall C,	0.0	"	0.0	Neg	"	mg/cm² %	Neg
59	Metal	Key box	tan	Wall B	0.0	"	0.0	Neg	"	mg/cm² %	Neg
60	~~Drywall~~ wood (62)	~~Casing~~ Wall (63)	grey	Wall D, Door	0.0	"	0.0	Neg	"	mg/cm² %	Neg
61	wood	frame	grey	Wall D, Door	0.0	"	0.0	Neg	"	mg/cm² %	Neg
62	"	door	grey	Wall D, Door	0.0	"	0.0	Neg	"	mg/cm² %	Neg
63	Drywall	wall	Light pink	Wall A, Top.	0.0	"	0.0	Neg	"	mg/cm² %	Neg
64	tile	Floor	white/grey	Floor	0.0	"	0.0	Neg	"	mg/cm² %	Neg
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

NO windows. Ceiling tile not painted

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave Atlantic City, NJ Date 12/4/14

Room Equivalent Room #2

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
65	Drywall	wall	blue	Wall A, Bottom Left	0.0	NA	0.0	Neg	0.0	mg/cm² %	Neg
66	plastic	toe board	grey	Wall A, Toe Board	0.01	"	0.01	Neg	0.01	mg/cm² %	Neg.
67	Drywall	wall	blue	Wall B, center	0.0	"	0.0	Neg	0.0	mg/cm² %	Neg
69	"	"	"	wall C, center	0.0	"	0.0	Neg	0.0	mg/cm² %	Neg.
70	"	"	"	Wall D, center	0.0	"	0.0	Neg	0.0	mg/cm² %	Neg
71	wood	Casing	White	wall B, window	0.0	"	0.0	Neg	0.0	mg/cm² %	Neg
72	"	sill	"	" " "	0.0	"	0.0	Neg	0.0	mg/cm² %	Neg
73	"	sash	"	" " "	0.0	"	0.0	Neg	0.0	mg/cm² %	Neg
74	wood	floor	brown	Floor	0.0	"	0.0	Neg	0.0	mg/cm² %	Neg.
75	wood	casing	Light Blue	Wall D, door	0.0	"	0.0	Neg	0.0	mg/cm² %	Neg
76	wood	frame	" "	" " "	0.0	"	0.0	Neg	0.0	mg/cm² %	Neg
77	wood	door	" "	" " "	0.0	"	0.0	Neg	0.0	mg/cm² %	Neg.
78	wood	cabinet	pink	wall D, ~~door~~ upper cabinet	0.0	"	0.0	Neg	0.0	mg/cm² %	Neg.
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Ceiling tile not painted

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent ~~HVAC Room~~ Cubby Room

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
79	drywall	wall	tan	Wall A, Center Right	0.0	NA	~~Neg~~ 0.0	Neg	0.0	mg/cm² %	Neg
80	"	"	"	Wall B, center	0.0	"	~~Neg~~ 0.0	Neg	0.0	mg/cm² %	"
81	"	"	"	Wall C, Bottom Right	0.0	"	~~Neg~~ 0.0	Neg	0.0	mg/cm² %	"
* 84	"	"	"	" " " "	0.0	"	~~Neg~~ 0.0	Neg	0.0	mg/cm² %	"
85	"	"	"	Wall D, center	0.0	"	~~Neg~~ 0.0	Neg	0.0	mg/cm² %	"
86	wood	cubby	yellow	Wall D, cubby top	0.0	"	0.0	Neg	0.0	mg/cm² %	"
* 87	wood	cubby	yellow	" " " "	0.0	"	0.0	Neg	0.0	mg/cm² %	"
88	"	casing	grey	Wall B, door	0.0	"	0.0	Neg	0.0	mg/cm² %	"
89	"	frame	"	" " "	0.0	"	0.0	Neg	0.0	mg/cm² %	"
90	"	door	"	" " "	0.0	"	0.0	Neg	0.0	mg/cm² %	"
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

No windows. Ceiling tile not painted. Floor is carpet

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Laundry Room

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
91	drywall	wall	pink	Wall A, Center Left	0.0	NA	~~Neg~~ 0.0	Neg	NA	mg/cm² %	Neg
92	"	"	"	Wall B, Center	0.0	NA	0.0	Neg	"	mg/cm² %	"
93	"	"	"	Wall C, Center left	0.0	NA	0.0	Neg	"	mg/cm² %	"
94	"	"	"	Wall D, top Right	0.0	NA	0.0	Neg	"	mg/cm² %	"
(BN) 95	tile	floor	tan	Floor	~~95.05~~ 0.05 (BN)	"	95.05	Pos	"	mg/cm² %	Pos
* 96	"	"	"	"	~~96.04~~ 0.04 (BN)	"	96.04	Pos	"	mg/cm² %	Pos
97	wood	casing	gray	wall B, door	0.0	"	0.0	Neg	"	mg/cm² %	Neg
98	"	frame	"	" " "	0.0	"	0.0	Neg	"	mg/cm² %	"
99	"	door	"	" " "	0.0	"	0.0	Neg	"	mg/cm² %	"
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

No windows. Ceiling tile not painted

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Restroom #1

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

	Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
	100	Drywall	wall	white	Wall A, center right	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
	102	"	"	"	Wall B, center left	0.0	"	0.0	"	"	mg/cm² %	"
	103	"	"	pink	Wall C top right	0.0	"	0.0	"	"	mg/cm² %	"
	104	"	"	white	Wall D, bottom center	0.01	"	0.01	"	"	mg/cm² %	"
*	107	"	"	"	" " " "	0.0	"	0.0	"	"	mg/cm² %	"
	108	tile	floor	brown	Floor	~~0~~ 0.13	"	0.13	"	"	mg/cm² %	"
*	109	"	"	"	"	0.5	"	0.5	"	"	mg/cm² %	"
	110	wood	casing	grey	Wall B, door	0.0	"	0.0	"	"	mg/cm² %	"
	111	"	frame	"	" " "	0.0	"	0.0	"	"	mg/cm² %	"
	112	"	door	"	" " "	0.0	"	0.0	"	"	mg/cm² %	"
											mg/cm² %	
											mg/cm² %	
											mg/cm² %	
											mg/cm² %	
											mg/cm² %	
											mg/cm² %	
											mg/cm² %	
											mg/cm² %	
											mg/cm² %	
											mg/cm² %	
											mg/cm² %	
											mg/cm² %	
											mg/cm² %	

No windows. Ceiling tile not painted.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Restroom #2

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
113	Drywall	wall	blue	Wall A, center	0.0	NA	0.0	Neg	NA	mg/cm² %	0.0
115	"	"	"	Wall B, center	0.0	"	0.0	"	"	mg/cm² %	0.0
117	"	"	"	Wall C, bottom center	0.0	"	0.0	"	"	mg/cm² %	0.0
118	"	"	"	Wall D, center left	0.0	"	0.0	"	"	mg/cm² %	0.0
119	wood	casing	grey	Wall D, door	0.0	"	0.0	"	"	mg/cm² %	0.0
120	"	frame	"	" " "	0.0	"	0.0	"	"	mg/cm² %	0.0
121	"	door	"	" " "	0.0	"	0.0	"	"	mg/cm² %	0.0
122	tile	floor	light tan	floor	0.08	"	0.08	"	"	mg/cm² %	0.08
125	plastic	floor board	grey	Wall A, Floor Board	0.02	"	0.02	"	"	mg/cm² %	0.02
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

No windows. Ceiling is unpainted tile

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent restroom #3

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, Inc)	Laboratory Result	UNITS	Final Classification
126	drywall	wall	pink	Wall A, bottom Right	0.01	N/A	0.01	Neg	N/A	mg/cm² %	Neg
127	"	"	"	Wall B, center	0.0	"	0.0	"	"	mg/cm² %	"
128	"	"	"	Wall C, center left	0.0	"	0.0	"	"	mg/cm² %	"
129	"	"	"	Wall D, top left	0.0	"	0.0	"	"	mg/cm² %	"
130	tile	floor	light tan	Floor	0.12	"	0.12	"	"	mg/cm² %	"
* 131	"	"	" "	"	0.17	"	0.17	"	"	mg/cm² %	"
132	plastic	toe board	grey	Wall A, toe board	0.01	"	0.01	"	"	mg/cm² %	"
134	wood	casing	grey	Wall D, door	0.0	"	0.0	"	"	mg/cm² %	"
135	"	frame	"	" " "	0.0	"	0.0	"	"	mg/cm² %	"
136	"	door	"	" " "	0.0	"	0.0	"	"	mg/cm² %	"
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

No windows. Ceiling is unpainted tile.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Room #3

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
137	Drywall	wall	green	Wall A, Bottom Left	0.0	NA	0.0	Neg	NA	mg/cm² %	
138	"	"	"	" B, Center	0.01	"	0.01	"	"	mg/cm² %	
139	"	"	"	Wall C, Center left	0.0	"	0.0	"	"	mg/cm² %	
140	"	"	"	Wall D, bottom left	0.0	"	0.0	"	"	mg/cm² %	
142	plastic	toe board	tan	Wall D, toe board	0.0	"	0.0	"	"	mg/cm² %	
143	wood	floor	brown	floor	0.0	"	0.0	"	"	mg/cm² %	
144	wood	sill	white	Wall C, window	0.01	"	0.01	"	"	mg/cm² %	
145	"	Casing	"	Wall C, window 3	0.0	"	0.0	"	"	mg/cm² %	
146	"	sash	"	Wall C, " "	0.0	"	0.0	"	"	mg/cm² %	
147	"	Casing	grey	Wall A, door	0.0	"	0.0	"	"	mg/cm² %	
148	"	frame	"	" " "	0.0	"	0.0	"	"	mg/cm² %	
149	"	door	"	" " "	0.0	"	0.0	"	"	mg/cm² %	
150	drywall	wall	white	Restroom, Wall A	0.0	"	0.0	"	"	mg/cm² %	
151	"	"	"	" " B	0.0	"	0.0	"	"	mg/cm² %	
152	"	"	"	" " C	0.0	"	0.0	"	"	mg/cm² %	
(R) ~~153~~ 154	"	"	"	" " D	0.0	"	0.0	"	"	mg/cm² %	
155	plastic	toeboard	grey	" Wall A toeboard	0.0	"	0.0	"	"	mg/cm² %	
156	tile	Floor	white/grey	" Floor	0.0	"	0.0	"	"	mg/cm² %	
157	wood	Cabinet	green	" Wall A Cabinet	0.0	"	0.0	"	"	mg/cm² %	
159	wood	frame	green	" Wall D door	0.0	"	0.0	"	"	mg/cm² %	
159	"	casing	"	" " " "	0.0	"	0.0	"	"	mg/cm² %	
160	"	door	"	" " " "	0.0	"	0.0	"	"	mg/cm² %	

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Room #3

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
161	Drywall	wall	pink	Closet, wall B	0.0	NA	0.0	Neg	NA	mg/cm² %	
162	"	"	"	" , " C	0.01	"	0.01	"	"	mg/cm² %	
(BN) * 163	"	"	"	" , " "	0.0	"	0.0	"	"	mg/cm² %	
164	"	"	"	" , " D	0.0	"	0.0	"	"	mg/cm² %	
165	wood	shelf	white	" , shelf	0.0	"	0.0	"	"	mg/cm² %	
166	"	Casing	grey	" , door	0.0	"	0.0	"	"	mg/cm² %	
167	"	frame	"	" , "	0.0	"	0.0	"	"	mg/cm² %	
1	"	door	"	" , "	0.0	"	0.0	"	"	mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

* Closet wall A inaccessible, closet flooring inaccessible.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Locker Room

XRF Serial No. 7510 Inspector Name Brian Rodrigues Signature Brian Rodrigues

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
169	drywall	wall	white	Wall A	0.0	NA	0.0 ~~Neg~~ (BR)	Neg	NA	mg/cm² %	Neg.
171	"	"	"	Wall B	0.0	"	0.0	"	"	mg/cm² %	"
172	"	"	"	Wall C	0.0	"	0.0	"	"	mg/cm² %	"
177	"	"	"	Wall D	0.0	"	0.0	"	"	mg/cm² %	"
174	tile	floor	white/grey	Floor	0.0	"	0.0	"	"	mg/cm² %	"
175	plaster	toe board	grey	wall D, toe board	0.0	"	0.0	"	"	mg/cm² %	"
176	wood	casing	grey	wall A, door	0.0	"	0.0	"	"	mg/cm² %	"
177	"	frame	"	" " "	0.0	"	0.0	"	"	mg/cm² %	"
178	"	door	"	" " "	0.0	"	0.0	"	"	mg/cm² %	"
179	wood	door	pink	electrical room (BR) ~~closet~~, door	0.0	"	0.0	"	"	mg/cm² %	"
181	wood	casing	white	wall C ~~B~~, window	0.0	"	0.0	"	"	mg/cm² %	"
182	"	sill	white	" " "	0.0	"	0.0	"	"	mg/cm² %	"
183	"	sash	white	" " "	0.0	"	0.0	"	"	mg/cm² %	"
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Ceiling is unpainted tile.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S Annapolis Ave Atlantic City, NJ Date 12/4/14

Room Equivalent kitchen

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
184	drywall	wall	yellow	Wall A, center	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
186	"	"	"	Wall B, bottom center	0.0	NA	0.0	"	"	mg/cm² %	"
187	"	"	"	Wall C, center	0.0	NA	0.0	"	"	mg/cm² %	"
188	"	wall	"	Wall D, left	0.0	NA	0.0	"	"	mg/cm² %	"
189	wood			Wall A, cabinet 5	0.0	NA	0.0	"	"	mg/cm² %	"
190	"	casing	white	Wall B, window	0.0	NA	0.0	"	"	mg/cm² %	"
191	"	sill	"	" " "	0.0	NA	0.0	"	"	mg/cm² %	"
192	"	frame	"	" " "	0.0	NA	0.0	"	"	mg/cm² %	"
193	"	sash	"	" " "	0.0	NA	0.0	"	"	mg/cm² %	"
194	~~tile~~ "	cabinet base	white	Wall D, cabinet base	0.0	"	0.0	"	"	mg/cm² %	"
196	tile	floor	tan	floor	0.0	"	0.0	"	"	mg/cm² %	"
198	wood	casing	grey	Wall C, door	0.0	"	0.0	"	"	mg/cm² %	"
199	"	frame	"	" " "	0.0	"	0.0	"	"	mg/cm² %	"
200	"	door	"	" " "	0.0	"	0.0	"	"	mg/cm² %	"
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Ceiling is unpainted tile

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City NJ Date 12/4/14

Room Equivalent Director's office

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
208	Drywall	wall	Blue	wall A, Center	0.0	NA	0.0		NA	mg/cm² %	
209	"	"	"	" B, Bottom center	0.0		0.0			mg/cm² %	
210	"	"	"	" C, center right	0.0		0.0			mg/cm² %	
211	"	"	"	" D, Cent	0.0		0.0			mg/cm² %	
212	wood	chair rail	tan	wall D, chair rail	0.0		0.0			mg/cm² %	
214	drywall	wall	tan	wall A, center bottom	0.0		0.0			mg/cm² %	
215	"	"	"	" B, center	0.0		0.0			mg/cm² %	
216	"	"	"	" C, bottom right	0.0		0.0			mg/cm² %	
217	"	"	"	" D, bottom left	0.0		0.0			mg/cm² %	
218	wood	floor	brown	Floor	0.0		0.0			mg/cm² %	
219	drywall	ceiling	blue	Ceiling	0.0		0.0			mg/cm² %	
220	wood	casing	white	wall C, window	0.0		0.0			mg/cm² %	
221	"	sill	"	" " "	0.0		0.0			mg/cm² %	
222	"	sash	"	" " "	0.0		0.0			mg/cm² %	
223	drywall	wall	tan	closet, wall A	0.0		0.0			mg/cm² %	
224	"	"	"	" " C	0.0		0.0			mg/cm² %	
225	"	"	"	" " D	0.0		0.0			mg/cm² %	
228	wood	floor	brown	closet, floor	0.0		0.0			mg/cm² %	
229	wood	frame	tan	closet, door	0.0		0.0			mg/cm² %	
230	"	door	"	" "	0.0		0.0			mg/cm² %	
231	wood	frame	tan	wall A, door	0.0		0.0			mg/cm² %	
232	"	casing	tan	" " "	0.0		0.0			mg/cm² %	
233	"	door	white	" " "	0.0		0.0			mg/cm² %	

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent HVAC Room #2

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature [illegible]

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
234	wood	Casing	grey	wall C, door	0.0	NA	0.0		NA	mg/cm² %	
235	"	frame	"	" " "	0.0	↓	0.0		↓	mg/cm² %	
236	"	door	"	" " "	0.0	↓	0.0		↓	mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Door system was only painted area in room.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Room #4

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
237	drywall	wall	yellow	Wall A, Center	0.0	NA	0.0		NA	mg/cm² %	
238	"	"	"	" B, Center Right	0.0		0.0			mg/cm² %	
239	"	"	"	" C, Center	0.0		0.0			mg/cm² %	
240	"	"	"	" D, Center	0.0		0.0			mg/cm² %	
242	"	"	"	Wall B, Ceiling.	0.0		0.0			mg/cm² %	
243	wood	frame	grey	Wall C, door	0.0		0.0			mg/cm² %	
244	"	casing	"	" " "	0.0		0.0			mg/cm² %	
245	"	door	"	" " "	0.0		0.0			mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

No windows. Carpet floor.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City NJ Date 12/4/14

Room Equivalent Cot Closet

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
246	drywall	wall	white	Wall A, top Right	0.0	NA	0.0		NA	mg/cm² %	
248	"	"	"	" B, Center	0.0		0.0			mg/cm² %	
250	"	"	"	" C, Center	0.0		0.0			mg/cm² %	
251	"	"	"	" D, Center	0.0		0.0			mg/cm² %	
252	wood	casing	grey	Wall A, door	0.0		0.0			mg/cm² %	
253	"	frame	"	" " , "	0.0		0.0			mg/cm² %	
254	"	door	"	" " , "	0.0		0.0			mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

No windows. Floor/ceiling not painted

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Exam Room #1

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, Inc)	Laboratory Result	UNITS	Final Classification
255	drywall	wall	green	Wall A, right	0.0	NA	0.0		NA	mg/cm² %	
256	"	"	"	" B, right	0.0		0.0			mg/cm² %	
258	"	"	"	" C, top ~~left~~ right	0.0		0.0			mg/cm² %	
259	"	"	"	" D, center left	0.0		0.0			mg/cm² %	
260	wood	casing	grey	Wall C, door	0.0		0.0			mg/cm² %	
261	"	frame	"	" " "	0.0		0.0			mg/cm² %	
262	"	door	"	" " "	0.0		0.0			mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

No windows. Ceiling/floor not painted

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent treatment room

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
263	drywall	wall	yellow	wall A, center	0.0	NA	0.0	N	NA	mg/cm² %	
264	"	"	"	" B, center right	0.0		0.0			mg/cm² %	
265	"	"	"	" C, center left	0.0		0.0			mg/cm² %	
266	"	"	"	" D, center	0.0		0.0			mg/cm² %	
267	wood	floor	tan	floor	0.0		0.0			mg/cm² %	
268	wood	Casing	green	wall C, window	0.0		0.0			mg/cm² %	
269	"	sill	"	" " "	0.0		0.0			mg/cm² %	
270	"	sash	white	" " "	0.0		0.0			mg/cm² %	
~~[illegible]~~				~~[illegible] wall A, closet~~						mg/cm² %	
271	drywall	wall	white	closet, wall A	0.0		0.0			mg/cm² %	
272	"	"	"	" " B	0.0		0.0			mg/cm² %	
273	"	"	"	" " C	0.0		0.0			mg/cm² %	
275	"	"	"	" " D	0.0		0.0			mg/cm² %	
276	wood	shelf	white	closet, shelf	0.0		0.0			mg/cm² %	
277	"	shelf support	"	closet, shelf, wall B	0.0		0.0			mg/cm² %	
278	"	casing	green	wall A, door	0.0		0.0			mg/cm² %	
279	"	framing	"	" " "	0.0		0.0			mg/cm² %	
280	"	door	"	" " "	0.0		0.0			mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

* Floor inaccessible in closet. Ceiling not painted

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Nurse's Office

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
281	drywall	wall	white	Wall A, right	0.0	NA			NA	mg/cm² %	
283	"	"	"	" B, center right	0.0					mg/cm² %	
286	"	"	"	" C, center left	0.0					mg/cm² %	
287	"	"	"	" D, center right	0.0					mg/cm² %	
285	"	"	"	Wall B, center right	0.0					mg/cm² %	
288	wood	Sill	white	Wall D, window	0.0					mg/cm² %	
289	"	Casing	"	" " "	0.0					mg/cm² %	
290	"	frame	"	" " "	0.0					mg/cm² %	
291	"	Sash	"	" " "	0.0					mg/cm² %	
292	wood	casing	grey	Wall A, door	0.0					mg/cm² %	
293	"	frame	"	" " "	0.0					mg/cm² %	
294	"	door	"	" " "	0.0					mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Ceiling/floor not painted

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave Atlantic City, NJ Date 12/4/14

Room Equivalent Staff Lounge

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature [signature]

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
296	drywall	wall	yellow	Wall A, Center	0.0	NA	0.0	Neg	NA	mg/cm² %	
297	"	"	"	" B, right	0.0		0.0			mg/cm² %	
298	"	"	"	" C, top right	0.0		0.0			mg/cm² %	
299	"	"	"	" D, center left	0.0		0.0			mg/cm² %	
300	wood	cabinet	white	Wall C, cabinet #1	0.0		0.0			mg/cm² %	
301	tile	floor	brown	floor	0.05		0.05			mg/cm² %	
302 *	"	"	"	"	0.19		0.19			mg/cm² %	
303	wood	sill	white	Wall D, window #1	0.0		0.0			mg/cm² %	
304	"	casing	"	" " " "	0.0		0.0			mg/cm² %	
305	"	frame	"	" " " "	0.0		0.0			mg/cm² %	
306	"	sash	"	" " " "	0.0		0.0			mg/cm² %	
307	plastic	toe board	grey	Wall B, toe board	0.0		0.0			mg/cm² %	
308	wood	casing	grey	wall B, door	0.0		0.0			mg/cm² %	
309	"	frame	"	" " "	0.0		0.0			mg/cm² %	
310	"	door	"	" " "	0.0		0.0			mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave Atlantic City, NJ Date 12/4/14

Room Equivalent Room #8

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
312	drywall	wall	white	Wall A, right	0.0	NA	0.0	Neg		mg/cm² %	
313	"	"	"	" B, center	0.0		0.0			mg/cm² %	
314	"	"	"	" C, left	0.0		0.0			mg/cm² %	
315	"	"	"	" D, left	0.0		0.0			mg/cm² %	
316	wood	sill	white	Wall D, window	0.0		0.0			mg/cm² %	
317	"	casing #1	"	" " " #1	0.0		0.0			mg/cm² %	
318	"	frame	"	" " " "	0.0		0.0			mg/cm² %	
319	"	sash	"	" " " "	0.0		0.0			mg/cm² %	
320	tile	floor	white/grey	floor	0.0		0.0			mg/cm² %	
322	plastic	toe board	grey	Wall B, toe board	0.0		0.0			mg/cm² %	
324	wood	casing	grey	Wall C, door	0.0		0.0			mg/cm² %	
325	"	frame	"	" " "	0.0		0.0			mg/cm² %	
326	"	door	"	" " "	0.0		0.0			mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Ceiling not painted

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave Atlantic City, NJ Date 12/4/14

Room Equivalent HVAC Room #2

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
327	wood	casing	[illegible] grey	Wall D, door	0.0	NA	0.0	Neg	NA	mg/cm² %	Neg
328	"	frame	"	" " "	0.0	↓	0.0	↓	↓	mg/cm² %	↓
329	"	door	Pink	" " "	0.0	↓	0.0	↓	↓	mg/cm² %	↓
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Door system is only painted surface in room.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35. S. Annapolis Ave Atlantic City, NJ Date 12/14/14

Room Equivalent Storage Room

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
330	drywall	wall	White	Wall A, center	0.0	NA			NA	mg/cm² %	
331	"	"	"	" B, "	0.0					mg/cm² %	
332	"	"	"	" C, "	0.0					mg/cm² %	
* 334	"	"	"	" ~~D~~ C "	0.0					mg/cm² %	
335	"	"	"	" D, "	0.0					mg/cm² %	
336	wood		pink	wall C, cabinet	0.02					mg/cm² %	
* 337	"		"	" " "	0.0					mg/cm² %	
338	wood	casing	grey	wall A, door	0.0					mg/cm² %	
339	"	frame	"	" " "	0.0					mg/cm² %	
340	"	door	"	" " "	0.0					mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

No windows. Floor/ceiling not painted.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City NJ Date 12/4/14

Room Equivalent Hallway #1

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
341	drywall	wall	tan	Wall A, center right.	0.0	NA	0.0	Neg	NA	mg/cm² %	
342	wood	side lite	white	Wall A, side lite base	0.0					mg/cm² %	
343	"	casing	"	" " , door	0.0					mg/cm² %	
344	"	frame	"	" " , "	0.0					mg/cm² %	
~~345~~ 345	"	door	"	" " , "	0.0		↓			mg/cm² %	
346	wood	floor	brown	floor	0.01		0.01			mg/cm² %	
* 347	"	"	"	floor	0.00		0.0			mg/cm² %	
349	drywall	wall	tan	Wall D, right	0.00					mg/cm² %	
351	"	"	Pink	closet, wall A	0.00					mg/cm² %	
352	"	"	"	" " C	0.00					mg/cm² %	
355	"	"	"	" " D	0.0					mg/cm² %	
356	wood	shelf	white	" wall D, shelf	0.0					mg/cm² %	
357	wood	"	"	" wall C, shelf support	0.0					mg/cm² %	
358	wood	casing	grey	" wall B, door	0.0					mg/cm² %	
359	"	frame	"	" " " "	0.0					mg/cm² %	
360	"	door	"	" " " "	0.0					mg/cm² %	
361	wood	chair railing	grey	wall D, chair rail	0.0					mg/cm² %	
362	drywall	wall	"	wall D, grey	0.0					mg/cm² %	
363	"	"	tan	Wall C, Left	0.0					mg/cm² %	
364	"	"	"	Wall B, center	0.0					mg/cm² %	
365	wood	casing	grey	wall B, door #2	0.0					mg/cm² %	
366	"	frame	"	" " " "	0.0					mg/cm² %	

* Closet, wall B inaccessible.

364 wood door grey wall B, door #2 0.0

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave Atlantic City, NJ Date 12/4/14

Room Equivalent Hallway # 2

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
368	drywall	wall	tan	Wall A, Left	0.0	NA	0.0	Neg		mg/cm² %	
369	"	"	"	Wall B, Left	0.0					mg/cm² %	
370	"	"	"	" C, Left	0.0					mg/cm² %	
371	wood	casing	grey	Wall B, door	0.0					mg/cm² %	
372	"	frame	"	" " "	0.0					mg/cm² %	
373	~~metal~~ wood	door	"	" " "	0.0					mg/cm² %	
374	wood	Casing	grey	Wall C, door #1	0.0					mg/cm² %	
375	"	frame	"	" " " "	0.0					mg/cm² %	
376	"	door	"	" " " "	0.0					mg/cm² %	
377	wood	floor	brown	floor	0.0					mg/cm² %	
378	drywall	wall	tan	Wall D, Center	0.0					mg/cm² %	
379 ~~380 381~~	drywall ~~plastic~~	"	grey	Wall D, ~~chair rail~~ grey	0.0					mg/cm² %	
381	plastic	toe board	~~tan~~	Wall A, toe board	0.0					mg/cm² %	
382	wood	chair rail	grey	Wall A, chair rail	0.0					mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Ceiling not painted

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Hallway #3

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
383	drywall	wall	tan	Wall A, Left	0.0	NA	0.0	Neg		mg/cm² %	
384	"	"	"	" B, left	0.0					mg/cm² %	
385	"	"	"	" C, center	0.0					mg/cm² %	
386	"	"	"	" D, left	0.0					mg/cm² %	
387	wood		white	Wall D, Portrait casing	0.0					mg/cm² %	
389	drywall	wall	grey	Wall B, Grey	0.0					mg/cm² %	
390	wood	chair rail	grey	Wall B, Chair rail	0.0					mg/cm² %	
391	wood	casing	grey	Wall B, door #1	6.9					mg/cm² %	
392	"	frame	"	" " " "	0.0					mg/cm² %	
393	"	door	"	" " " "	0.0					mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

No windows. Ceiling/floor not painted.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Social worker Room

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
395	drywall	wall	tan	Wall A, top Right	0.0	NA	Neg 0.0	Neg		mg/cm² %	
396	"	"	light blue	" " , bottom right	0.0					mg/cm² %	
397	"	"	tan	Wall B, top left	0.0					mg/cm² %	
398	"	"	light blue	Wall B, bottom left	0.0					mg/cm² %	
399	"	"	tan	Wall C, top left	0.0					mg/cm² %	
400	"	"	light blue	Wall C, bottom left	0.0					mg/cm² %	
401	"	"	tan	wall D, top right	0.0					mg/cm² %	
402	"	"	light blue	wall D, ~~top~~ Bottom right	0.0					mg/cm² %	
403	wood	casing	grey	wall A, door	0.0					mg/cm² %	
404	"	frame	"	" " "	0.0					mg/cm² %	
405	"	door	"	" " "	0.0					mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

No windows. Walls had 2 different paints, so 2 readings for each wall. Floor not painted.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35. S. Annapolis Ave Atlantic City, NJ Date 12/4/14

Room Equivalent Hallway # 4

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
406	drywall	wall	tan	Wall A, center	0.0	NA	0.0	Neg		mg/cm² %	
407	"	"	grey	Wall A, grey	0.0	↓	↓	↓		mg/cm² %	
408	wood	chair rail	"	wall A, chair rail	0.0					mg/cm² %	
409	drywall	wall	tan	Wall B, right	0.01		0.01			mg/cm² %	
410	"	"	"	" " "	0.00		0.0			mg/cm² %	
411	"	"	"	Wall C, Left	0.00					mg/cm² %	
413 ~~413~~	"	"	"	Wall D, Center	0.00					mg/cm² %	
414	wood	casing	grey	Wall C, door #2	0.0					mg/cm² %	
415	"	frame	"	" " " "	0.0					mg/cm² %	
416 ~~416~~	"	door	"	" " " "	0.0	↓	↓	↓		mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

1997 Revision

Form 7.1

No windows. Ceiling/floor not painted.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave Atlantic City NJ Date 12/4/14

Room Equivalent Foyer

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
~~X~~ 418	drywall	wall	Pink	Wall A, Center	0.0	N/A	0.0	Neg		mg/cm² %	
419	"	"	"	" B, top Right	0.0					mg/cm² %	
420	"	"	"	wall C, right	0.0					mg/cm² %	
422	"	"	"	wall D, left	0.0					mg/cm² %	
423	"	ceiling	Pink ~~white~~ BW	ceiling	0.0					mg/cm² %	
424	metal	airvent	grey	ceiling	0.0					mg/cm² %	
425	wood	casing	grey	wall B, door	0.0					mg/cm² %	
426	"	casing	"	wall B, sidelite base	0.0					mg/cm² %	
427	"	frame	"	wall B, door	0.0					mg/cm² %	
428	metal	door	"	" " "	0.0					mg/cm² %	
429	wood	casing	"	Wall C, sidelite base	0.0					mg/cm² %	
430	wood	casing	"	" " door	0.0					mg/cm² %	
431	"	frame	"	" " "	0.0					mg/cm² %	
432	~~metal~~ wood	door	~~pink~~	" " "	0.0					mg/cm² %	
433	wood	casing	grey	Wall A, window #2	0.0					mg/cm² %	
434	"	sill	"	" " " "	0.0					mg/cm² %	
435	"	sash	"	" " " "	0.0					mg/cm² %	
436	tile	floor	tan	floor	0.0					mg/cm² %	
438	plastic	toe board	grey	wall A, toe board	0.0					mg/cm² %	
439	wood	newell post	brown	newell post #1	0.0		↓			mg/cm² %	
440	"	ballister	grey	Ballister #5	0.06		0.06			mg/cm² %	
441	"	"	grey	" "	0.05	↓	0.05	↓		mg/cm² %	

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Foyer

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature [signature]

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
442	wood	tread	brown	tread #8	0.0	NA	0.0	Neg		mg/cm² %	
443	"	rise	"	rise #8	0.5	↓	0.5	↓		mg/cm² %	
* 444	"	"	"	" "	0.4	↓	0.4	↓		mg/cm² %	
445	"	railing	brown	railing #2	0.01	↓	0.01	↓		mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent activity room (2nd floor)

XRF Serial No. 7510 Inspector Name Brian Signature

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
44C	drywall	wall	blue	wall A	0	NA	0.0	neg		mg/cm² %	
448	drywall	wall	blue	wall B	0			neg		mg/cm² %	
449	drywall	wall	blue	wall C	0			neg		mg/cm² %	
450	drywall	wall	blue	wall D	0			neg		mg/cm² %	
451	wood	floor	gray	floor	0			neg		mg/cm² %	
452	drywall	ceiling	blue	ceiling	1.5		1.5	pos		mg/cm² %	
☆ 453	drywall	ceiling	blue	ceiling	0		0.0	neg		mg/cm² %	
☆ 454	drywall	ceiling	blue	ceiling	0			neg		mg/cm² %	
458	toeboard	wall	blue	wall A	0			neg		mg/cm² %	
459	wood	window sill	white	wall C	0			neg		mg/cm² %	
461	wood	window casing	white	wall C	0			neg		mg/cm² %	
462	wood	window frame	white	wall C	0			neg		mg/cm² %	
463	wood	window trim	white	wall C	0			neg		mg/cm² %	
464	wood	cabinet	pink	wall D	0			neg		mg/cm² %	
465	drywall	wall	white	closet 1 wall A	0			neg		mg/cm² %	
466	drywall	wall	white	closet 1 wall B	0			neg		mg/cm² %	
467	drywall	wall	white	closet 1 wall C	0			neg		mg/cm² %	
468	drywall	wall	white	closet 1 wall D	0			neg		mg/cm² %	
469	wood	casing	white	closet 1	0			neg		mg/cm² %	
470	wood	frame	white	closet 1	0			neg		mg/cm² %	
471	wood	door	pink	closet 1	0			neg		mg/cm² %	
472	wood	casing	white	door wall D	0			neg		mg/cm² %	

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Activity Room

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature [signature]

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, Inc)	Laboratory Result	UNITS	Final Classification
473	wood	frame	white	door wall D	0	N/A	0.0	neg		mg/cm² %	
474	wood	door	white	door wall D	0	↓	↓	neg		mg/cm² %	
475	metal	pipe	white	wall A	0	↓	↓	neg		mg/cm² %	
476	wood	coat rack	blue	wall D	0	↓	↓	neg		mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. ~~Vantor~~ (N) 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Vending Room (2nd Floor)

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature [signature]

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
479	drywall	wall	peach	Wall A, Center	0.0	NA	0.0	Neg		mg/cm² %	
480	"	"	"	" B, "	0.0					mg/cm² %	
482	"	"	"	" C, "	0.0					mg/cm² %	
483	"	"	"	" D, "	0.0					mg/cm² %	
485	"	"	"	" " , "	0.0					mg/cm² %	
486	toe board	plastic	grey	Wall A	0.0					mg/cm² %	
487	wood	casing	white	Wall C, window #3	0.0					mg/cm² %	
488	"	frame	"	" " , " "	0.0					mg/cm² %	
489	"	sill	"	" " , " "	0.0					mg/cm² %	
490	"	sash	"	" " , " "	0.00					mg/cm² %	
491	"	casing	grey	Wall A, door	0.0					mg/cm² %	
492	"	frame	"	" " , "	0.0					mg/cm² %	
493	"	door	"	" " , "	0.0					mg/cm² %	
496	drywall	wall	peach	Ceiling	0.0					mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Floor not painted.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Outside, Wall A, Exterior

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature [signature]

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
506	Vinyl	~~Width~~ Siding	tan	Wall A, Center	0.01	NA	0.01	Neg		mg/cm² %	
507	metal	Casing	grey	Wall A, door #1	0.0	↓	0.00	↓		mg/cm² %	
508	metal	door	"	" " " "	0.0	↓	↓	↓		mg/cm² %	
509	metal	downspout	tan	Wall A, downspout #1	0.0	↓	↓	↓		mg/cm² %	
511	cement	foundation	~~tan~~ grey	Wall A, foundation	0.04	↓	0.04	↓		mg/cm² %	
# 512	"	"	"	" " "	0.05	↓	0.05	↓		mg/cm² %	
513	metal	Casing	tan	Wall A, window #4	0.0	↓	0.0	↓		mg/cm² %	
534	wood	~~siding~~	pink	playhouse, Wall A	0.0	↓	↓	↓		mg/cm² %	
535	"	siding	purple	" " " window #1	0.0	↓	↓	↓		mg/cm² %	
536	"	siding	white	~~wall~~ playhouse, wall D, door	0.0	↓	↓	↓		mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave Atlantic City, NJ Date 12/4/14

Room Equivalent Wall B outside, Exterior

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
515	Vinyl	Siding	tan	Wall B, center	0.0	NA	0.0	Neg		mg/cm² %	
516	Metal	Casing	"	Wall B, window #6	0.0	↓	↓	↓		mg/cm² %	
517	Metal	downspout	"	Wall B, downspout #3	0.0	↓	↓	↓		mg/cm² %	
519	Cement	foundation	ave of	foundation	0.0	↓	↓	↓		mg/cm² %	
520	metal	casing	white	wall B, door #1	0.0	↓	↓	↓		mg/cm² %	
521	metal	door	white	wall B, door #1	0.0	↓	↓	↓		mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Wall C, outside

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
523	Vinyl	siding	tan	wall C, Right	0.0	NA	0.0	Neg		mg/cm² %	
524	metal	downspout	"	" " , downspout	0.01		0.01			mg/cm² %	
* 525	"	"	"	" " "	0.01		0.01			mg/cm² %	
526	metal	casing	"	wall C, window #1	0.0		0.0			mg/cm² %	
527	"	foundation	grey	foundation	0.0		0.0			mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Wall D Exterior

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature [signature]

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
528	vinyl	siding	tan	wall D siding	0.0	NA	0.0	Neg		mg/cm² %	
529	metal	cas.ng	"	wall D, window #4	0.0	↓	0.0	↓		mg/cm² %	
~~536~~531	cement	foundation	gray	foundation	0.01	↓	0.01	↓		mg/cm² %	
532	metal	downspout	tan	wall D, downspout #1	0.01	↓	0.01	↓		mg/cm² %	
533	"	"	"	" " " "	0.02	↓	0.02	↓		mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Room #7

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
539	drywall	wall	white	Wall A, Center	0.0	NA	0.0	Neg		mg/cm² %	
540	"	"	"	" B, Center	0.0					mg/cm² %	
541	"	"	purple	Wall C, Center	0.0					mg/cm² %	
542	"	"	"	Wall D, Left	0.0					mg/cm² %	
543	"	"	white	Wall D, right	0.0					mg/cm² %	
544	plastic	toe board	grey	Wall A, toe board	0.01		0.01			mg/cm² %	
545	wood	casing	white	Wall D, window #2	0.0		0.0			mg/cm² %	
546	"	frame	"	" " " "	0.0					mg/cm² %	
547	"	sill	"	" " " "	0.0					mg/cm² %	
548	tile	floor	white/grey	floor	0.0					mg/cm² %	
549	wood	casing	grey	Wall B, door	0.0					mg/cm² %	
550	"	frame	"	" " "	0.0					mg/cm² %	
551	"	door	"	" " "	0.0					mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Ceiling not painted

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Room #1

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
552	drywall	wall	green	Wall A, center	0.0	NA	0.0	Neg		mg/cm² %	
553	"	"	"	wall B, center top	0.0					mg/cm² %	
554	"	"	"	wall C, right	0.0					mg/cm² %	
555	"	"	"	wall D, left	0.0					mg/cm² %	
556	wood	cabinet	pink.	wall A, cabinet #1	0.0					mg/cm² %	
558	"	casing	white	" " window #1	0.0					mg/cm² %	
559	"	frame	"	" " " "	0.0					mg/cm² %	
560	"	sill	"	" " " "	0.0					mg/cm² %	
561	"	sash	"	" " " "	0.0					mg/cm² %	
562	wood	casing	grey	wall A, door	0.0					mg/cm² %	
563	"	frame	"	" " "	0.0					mg/cm² %	
564	"	door	"	" " "	0.0					mg/cm² %	
566	tile	floor	white/grey	floor	0.0					mg/cm² %	
568	drywall	wall	white	closet, wall A	0.0					mg/cm² %	
569	"	"	"	" wall B	0.0					mg/cm² %	
570	"	"	"	" wall C	0.0					mg/cm² %	
571	"	"	"	" " D	0.0					mg/cm² %	
572	wood	casing	grey	closet, wall A, door	0.0					mg/cm² %	
573	"	frame	"	" " " "	0.0					mg/cm² %	
574	"	door	"	" " " "	0.0					mg/cm² %	
575	"	casing	grey	wall C, doorway	0.0					mg/cm² %	
576	"	frame	"	" " "	0.0					mg/cm² %	

no door for wall C doorway.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Room #1

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
577	drywall	wall	yellow	Restroom, Wall A	0.0					mg/cm² %	
578	"	"	"	" , Wall B	0.0					mg/cm² %	
579	"	"	"	" , " C	0.0					mg/cm² %	
580	"	"	"	" , " D	0.0					mg/cm² %	
581	tile	floor	white/grey	floor	0.0					mg/cm² %	
582	wood	casing	grey	Restroom, wall B, door	0.0					mg/cm² %	
583	"	frame	"	" , " " , "	0.0					mg/cm² %	
584	"	door	"	" , " " , "	0.0					mg/cm² %	
585	drywall	wall	yellow	Entry Way, Wall A	0.0					mg/cm² %	
586	"	"	"	" " , Wall B	0.0					mg/cm² %	
587	"	"	"	" " , " C	0.0					mg/cm² %	
588	"	"	"	" " , " D	0.0					mg/cm² %	
589	wood	floor	brown	Entry Way, Floor	0.0					mg/cm² %	
590	"	casing	grey	Entry Way, Wall B, door	0.0					mg/cm² %	
591	"	frame	"	" " , " " , "	0.0					mg/cm² %	
592	"	door	"	" " , " " , "	0.0					mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent office #1

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature [signature]

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
593	drywall	wall	peach	Wall A, center	0.0	NA	0.0	Neg		mg/cm² %	
594	"	"	"	Wall B, center	0.0					mg/cm² %	
596	"	"	"	" C, "	0.0					mg/cm² %	
599	"	"	"	" D, "	0.0					mg/cm² %	
600	wood	shelf support	"	Wall C, shelf support	0.0					mg/cm² %	
601	plastic	toe board	grey	Wall C, toe board	0.0					mg/cm² %	
602	wood	cabinet	brown	Wall D, Cab. net #1	0.0		0.0			mg/cm² %	
604 *	"	"	"	" " "	0.15		0.15			mg/cm² %	
605	wood	casing	grey	Wall A, door	0.0		0.0			mg/cm² %	
606	"	frame	"	" " "	0.0		0.0			mg/cm² %	
607	"	door	"	" " "	0.0		0.0			mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Ceiling/floor not painted. No window

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent Restroom #4

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
608	drywall	wall	peach	wall A, center	0.0	NA	0.0	Neg		mg/cm² %	
609	"	"	"	" B, "	0.0	↓	↓	↓		mg/cm² %	
610	"	"	"	" C, ~~right~~ left	0.0					mg/cm² %	
611	"	"	"	" D, center	0.0		↓			mg/cm² %	
613	tile	floor	tan	floor	0.05		0.05			mg/cm² %	
614	wood	casing	grey	wall C, door	0.0		0.0			mg/cm² %	
615	"	frame	"	" " "	0.01		0.01			mg/cm² %	
616	"	door	"	" " "	0.0		0.0			mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

No windows. Ceiling too high - inaccessible.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent ~~Room~~ (BR) Restroom #5

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
617	drywall	wall	white	Wall A, center	0.0	NA	0.0	Neg		mg/cm² %	
618	"	"	"	" B, "	0.0					mg/cm² %	
619	"	"	"	" ~~(BR)~~ C, "	0.0					mg/cm² %	
620	"	"	"	" D, "	0.0					mg/cm² %	
621	wood	chair rail	"	Wall A, chair rail	0.0					mg/cm² %	
622	plastic	toe board	grey	wall D, toe board	0.0					mg/cm² %	
624	wood	casing	grey	wall C, door	0.0					mg/cm² %	
625	"	frame	"	" " , "	0.0					mg/cm² %	
626	"	door	"	" " , "	0.0					mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

1997 Revision

Form 7.1

No window. Floor not painted. Ceiling too high.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/4/14

Room Equivalent office #2 (2nd Floor)

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature [signature]

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
628	drywall	wall	beach	wall A, center	0.0	NA	0.0	Neg		mg/cm² %	
629	"	"	"	" B, "	0.0					mg/cm² %	
631	"	"	"	" C, "	0.0					mg/cm² %	
632	"	"	"	" D, "	0.0					mg/cm² %	
633	wood	casing	white	wall A, window #2	0.0					mg/cm² %	
634	"	sill	"	" " " "	0.0					mg/cm² %	
635	"	frame	"	" " " "	0.0					mg/cm² %	
636	"	sash	"	" " " "	0.0					mg/cm² %	
637	drywall	ceiling ~~wall~~ (BR)	beach	ceiling	0.0					mg/cm² %	
638	wood	casing	grey	wall C, door	0.0					mg/cm² %	
639	"	~~frame~~	"	" " "	0.0					mg/cm² %	
640	"	door	"	" " "	0.0					mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

1997 Revision

Form 7.1

Floor not painted.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/8/14

Room Equivalent office #4

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
651	drywall	wall	pink	wall A	0.01		0.01	neg		mg/cm² %	
652	drywall	wall	pink	wall B	0		0	neg		mg/cm² %	
653	drywall	wall	pink	wall C	0.01		0.01	neg		mg/cm² %	
654	drywall	wall	pink	wall D	0		0.6	neg		mg/cm² %	
655	plastic	tabeard	blue	wall B	0			neg		mg/cm² %	
658	drywall	ceiling	pink	ceiling	0			neg		mg/cm² %	
659	wood	ceiling	white	wall E window 2	0			neg		mg/cm² %	
660	wood	sill	white	wall C window 2	0			neg		mg/cm² %	
661	wood	fram	white	wall C window 2	0			neg		mg/cm² %	
662	wood	sash	white	wall C window 2	0			neg		mg/cm² %	
663	wood	cabnet	pink	wall C cabnet	0			neg		mg/cm² %	
664	wood	door casing	blue	wall A door	0			neg		mg/cm² %	
665	wood	door frame	blue	wall A door	0			neg		mg/cm² %	
666	wood	door	pink	wall A door	0			neg		mg/cm² %	
				closet no painted surface						mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

1997 Revision

Form 7.1

Closet had no painted surfaces

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/18/14

Room Equivalent office #3

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
667	drywall	wall	pink	wall A	0	NA	0.0	neg		mg/cm² %	
668	drywall	wall	pink	wall B	0			neg		mg/cm² %	
669	drywall	wall	pink	wall C	0			neg		mg/cm² %	
670	drywall	wall	pink	wall D	0			neg		mg/cm² %	
671	drywall	ceiling	pink	ceiling	0			neg		mg/cm² %	
672	wood	window casing	white	window	0			neg		mg/cm² %	
673	wood	window frame	white	window wall A	0			neg		mg/cm² %	
674	wood	window sill	white	window wall A	0			neg		mg/cm² %	
675	wood	window sash	white	window wall A	0			neg		mg/cm² %	
676	wood	casing	blue	door wall C	0			neg		mg/cm² %	
677	wood	frame	blue	door wall C	0			neg		mg/cm² %	
678	wood	door	pink	door wall C	0			neg		mg/cm² %	
☆ 679		door			0			neg		mg/cm² %	
680	plastic	tackboard	blue	wall C	0			neg		mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

☆ Floor not painted

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave. Atlantic City, NJ Date 12/8/14

Room Equivalent office 5

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
681	drywall	wall	pink	wall A	0	NA	0.0	neg		mg/cm² %	
682	drywall	wall	pink	wall B	0			neg		mg/cm² %	
683	drywall	wall	pink	wall C	0			neg		mg/cm² %	
684	drywall	wall	pink	wall D	0			neg		mg/cm² %	
685	drywall	ceiling	pink	ceiling	0			neg		mg/cm² %	
686	wood	casing	white	window 2 / wall C	0			neg		mg/cm² %	
687	wood	frame	white	window 2 wall C	0			neg		mg/cm² %	
688	wood	sill	white	window 2 wall C	0			neg		mg/cm² %	
689	wood	sash	white	window 2 wall C	0			neg		mg/cm² %	
690	metal	pipe	white	wall D pipe	0			neg		mg/cm² %	
691	drywall	toeboard	blue	wall D toeboard	0			neg		mg/cm² %	
692	wood	casing	blue	wall C door	0			neg		mg/cm² %	
693	wood	frame	blue	wall C door	0			neg		mg/cm² %	
694	wood	door	blue	wall C door	0			neg		mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Floor not painted.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave Atlantic City, NJ Date 12/8/14

Room Equivalent office 6

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
695	drywall	wall	white	wall A	0	NA	0.0	neg		mg/cm² %	
696	drywall	wall	white	wall B	0			neg		mg/cm² %	
697	drywall	wall	white	wall C	0			neg		mg/cm² %	
698	drywall	wall	white	wall D	0			neg		mg/cm² %	
699	drywall	ceiling	white	ceiling	0			neg		mg/cm² %	
700	wood	casing	white	wall A window	0			neg		mg/cm² %	
701	wood	sill	white	wall A window	0			neg		mg/cm² %	
				frame no paint						mg/cm² %	
702	wood	sash	white	wall A window	0			neg		mg/cm² %	
703	wood	shelf	grey	wall B shelf B	0			neg		mg/cm² %	
704	plastic	toeboard	black	wall A toeboard	0			neg		mg/cm² %	
705	wood	casing	white	wall B door	0			neg		mg/cm² %	
706	wood	frame	white	wall B door	0			neg		mg/cm² %	
707	wood	door	clear	wall B door	0			neg		mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

1997 Revision

Form 7.1

Window frame was not painted.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave Atlantic City, NJ Date 12/8/14

Room Equivalent hallway #5

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
708	drywall	wall	purple	wall A	0	AA	0.0	neg		mg/cm² %	
709	drywal	wall	purple	wall B	0			neg		mg/cm² %	
710	drywall	wall	purple	wall C	0			neg		mg/cm² %	
711	drywall	wall	purple	wall D	0			neg		mg/cm² %	
712	drywall	ceiling	white	ceiling	0			neg		mg/cm² %	
713	wood	rail	white	wall A rail	0			neg		mg/cm² %	
714	wood	chairrail	white	wall A chairrail	0			neg		mg/cm² %	
715	wood	toeboard	white	wall A toeboard	0			neg		mg/cm² %	
716	wood	mailbox	white	wall B mailbox	0			neg		mg/cm² %	
717	wood	casing	white	wall C door 2	0			neg		mg/cm² %	
718	wood	frame	white	wall C door 2	0			neg		mg/cm² %	
719	wood	door	pink	wall C door 2	0			neg		mg/cm² %	
722	wood	crown molding	white	Wall C	0.01		0.01	neg		mg/cm² %	
										mg/cm² %	
			wood ceiling not painted							mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Wood ceiling not painted.

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave Atlantic City, NJ Date 12/8/14

Room Equivalent exterior balcony floor 2 wall C

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
723	ceramic	floor	white	floor	0	NA	0.0	Neg		mg/cm² %	
724	vinyl	wall siding	tan	wall C	0	↓	↓	↓		mg/cm² %	
725	vinyl	casing	tan	window 7	0					mg/cm² %	
726	metal	door	white	door	0					mg/cm² %	
728	wood	board	white	door	0					mg/cm² %	
731	wood	board	white	hvac containment	0		↓			mg/cm² %	
732	metal	downspout	tan	wall C downspout	0.01	↓	0.01	↓		mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 35 S. Annapolis Ave Atlantic City, NJ Date 12/8/14

Room Equivalent Stairway (1)

XRF Serial No. 7510 Inspector Name Brian Rodriguez Signature Brian Rodriguez

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
733	drywall	wall	purple	wall A	0	N/A	0.0	Neg		mg/cm² %	
734	drywall	wall	purple	wall B	0					mg/cm² %	
735	drywall	wall	purple	wall C	0					mg/cm² %	
736	drywall	wall	purple	wall D	0					mg/cm² %	
737	metal	pipe	purple	wall A riser	0					mg/cm² %	
738	wood	casing	purple	wall B window	0					mg/cm² %	
739	wood	frame	purple		0					mg/cm² %	
740	wood	rail	purple	wall B rail	0					mg/cm² %	
741	wood	guard		stair guard	0					mg/cm² %	
				(ceiling too high	cant	reach)				mg/cm² %	
742	tile	floor	white	floor	0					mg/cm² %	
744	plastic	toeboard	blue	wall C toeboard	0					mg/cm² %	
				Stairs not	painted					mg/cm² %	
745	wood	casing	purple	wall D door	0					mg/cm² %	
746	metal	door	blue	wall D door	0					mg/cm² %	
747	wood	frame	purple	wall D door	0					mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Ceiling too high to test.

Niton XLp 300, 9/24/2004, ed. 1

Performance Characteristic Sheet

EFFECTIVE DATE: **September 24, 2004** **EDITION NO.: 1**

MANUFACTURER AND MODEL:

Make: *Niton LLC*
Tested Model: *XLp 300*
Source: ^{109}Cd
Note: This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLi and XLp series:

XLi 300A, XLi 301A, XLi 302A and XLi 303A.
XLp 300A, XLp 301A, XLp 302A and XLp 303A.
XLi 700A, XLi 701A, XLi 702A and XLi 703A.
XLp 700A, XLp 701A, XLp 702A, and XLp 703A.

Note: The XLi and XLp versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm^2 (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm^2 in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm^2 film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is not needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm^2)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

Niton XLp 300, 9/24/2004, ed. 1

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

Conduct XRF retesting at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

Testing Times Using K+L Reading Mode (Seconds)						
	All Data			Median for laboratory-measured lead levels (mg/cm^2)		
Substrate	25^{th} Percentile	Median	75^{th} Percentile	Pb < 0.25	0.25 ≤ Pb<1.0	1.0 ≤ Pb
Wood Drywall	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22	15	18	16

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

Appendix B-3: XRF Calibration/Field Validation Results

Calibration Check Test Results

Page 1 of 3

Address/Unit No. 35 S Annapolis Ave. Atlantic City NJ

Device Niton XRF XLp 300

Date 12/4/14 XRF Serial No. 7510

Contractor URS

Inspector Name Brian Rodriguez Signature

NIST SRM Used 1.04 mg/cm² Calibration Check Tolerance Used mg/cm²

First Calibration Check Initial Reading at 9:28 Resolution 426.4

NIST SRM			First Average	Difference Between First Average and NIST SRM*
First Reading	Second Reading	Third Reading		
1.1	1.0	1.0	1.03	0.01
(9)	(10)	(12)		

Second Calibration Check 11:36 am

NIST SRM			Second Average	Difference Between Second Average and NIST SRM*
First Reading	Second Reading	Third Reading		
1.0	1.0	1.1	1.03	0.01

Third Calibration Check *(if required)* 12:15 pm Res = 427.5

NIST SRM			Third Average	Difference Between Third Average and NIST SRM*
First Reading	Second Reading	Third Reading		
1.0	1.0	1.0	1.0	0.04

Fourth Calibration Check *(if required)* 2:30 pm

NIST SRM			Fourth Average	Difference Between Fourth Average and NIST SRM*
First Reading	Second Reading	Third Reading		
1.1	0.9	1.0	1.0	0.4

* If the difference of the Calibration Check Average from the NIST SRM film value is greater than the specified Calibration Check Tolerance for this device, consult the manufacturer's recommendations to bring the instrument back into control. Retest all testing combinations tested since the last successful Calibration Check test.

1997 Revision Form 7.2

Calibration Check Test Results

Page 2 of 3

Address/Unit No. 35 S. Annapolis Ave.
Atlantic City, NJ

Device Niton XRF XLp 300

Date 12/4/14 XRF Serial No. 7510

Contractor URS

Inspector Name Brian Rodriguez Signature Brian Rodriguez

NIST SRM Used 1.04 mg/cm² Calibration Check Tolerance Used _____ mg/cm²

First Calibration Check 4:30pm End of testing Res = 427.0

NIST SRM			First Average	Difference Between First Average and NIST SRM*
First Reading	Second Reading	Third Reading		
1.1	1.0	1.1	1.06	0.02

Second Calibration Check

NIST SRM			Second Average	Difference Between Second Average and NIST SRM*
First Reading	Second Reading	Third Reading		

Third Calibration Check *(if required)*

NIST SRM			Third Average	Difference Between Third Average and NIST SRM*
First Reading	Second Reading	Third Reading		

Fourth Calibration Check *(if required)*

NIST SRM			Fourth Average	Difference Between Fourth Average and NIST SRM*
First Reading	Second Reading	Third Reading		

* If the difference of the Calibration Check Average from the NIST SRM film value is greater than the specified Calibration Check Tolerance for this device, consult the manufacturer's recommendations to bring the instrument back into control. Retest all testing combinations tested since the last successful Calibration Check test.

1997 Revision Form 7.2

Calibration Check Test Results

Page 3 of 3

Address/Unit No. 35 S. Annapolis Ave
Atlantic City, NJ

Device Niton XRF XLp 300

Date 12/8/14 XRF Serial No. 7510

Contractor URS

Inspector Name Brian Rodriguez Signature

NIST SRM Used 1.04 mg/cm² Calibration Check Tolerance Used mg/cm²

First Calibration Check 9:10 am Res: 431.2

NIST SRM			First Average	Difference Between First Average and NIST SRM*
First Reading	Second Reading	Third Reading		
1.1	1.1	1.0	1.06	0.02

Res = 430.4

Second Calibration Check 10:08 am Final Cal. End of testing

NIST SRM			Second Average	Difference Between Second Average and NIST SRM*
First Reading	Second Reading	Third Reading		
1.1	1.0	1.1	1.06	0.02

Third Calibration Check *(if required)*

NIST SRM			Third Average	Difference Between Third Average and NIST SRM*
First Reading	Second Reading	Third Reading		

Fourth Calibration Check *(if required)*

NIST SRM			Fourth Average	Difference Between Fourth Average and NIST SRM*
First Reading	Second Reading	Third Reading		

* If the difference of the Calibration Check Average from the NIST SRM film value is greater than the specified Calibration Check Tolerance for this device, consult the manufacturer's recommendations to bring the instrument back into control. Retest all testing combinations tested since the last successful Calibration Check test.

1997 Revision Form 7.2

Appendix C: Dust Wipe Sample Analytical Data

Appendix C-1: Dust Wipe Sampling Data Summary Sheet

Sample #	Room Equivalent	Location
2-1	Stairway	Floor leading to activity room
2-2	Activity Room	Window (1) Sill Wall A
2-3	Hallway 5	Floor by entrance to Foyer
2-4	Vending Room	Window (2) Sill Wall C
2-5	Restroom 4	Floor by door
2-6	Restroom 5	Floor by door
2-7	Office 4	Window(2) Sill Wall C
2-8	Hallway 5	Floor in middle of Hallway 5
2-9	Office 6	Floor by door
2-10	Office 3	Window (2) Sill Wall A
2-11	Foyer	Floor by Main Entrance
2-12	Waiting Area	Window (1) Sill Wall A
2-13	Hallway 1	Floor by intersection with Hallway 4
2-14	Room 2	Floor by door
2-15	Room 2	Window Sill Wall B
2-16	Cubby Room	Floor by door
2-17	Restroom 2	Floor by door
2-18	Restroom 3	Floor by door
2-19	Hallway 2	Floor where Hallway 1 and 2 meet
2-20	Room 3	Floor by entrance door
2-21	Room 3	Window Sill Wall C
2-22	Exam Room 1	Floor by door
2-23	Treatment Room	Window Sill Wall C
2-24	Hallway 3	Hallway by where Hallway 3 and 4 meet
2-25	Room 7	Floor by door
2-26	Room 8	Window Sill Wall A
2-27	Hallway 4	By children cubbies on floor
2-28	Room 1 Entrance	Entrance by door on floor
2-29	Restroom in Room 1	Floor
2-30	Room 1	Window Sill Wall A
2-31	Dust Spike	Dust Spike for QA

Appendix C-2: Dust Wipe Sampling Analytical Data

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 786-5974
http://www.EMSL.com cinnaminsonleadlab@emsl.com

EMSL Order:	201417555
CustomerID:	DAME50
CustomerPO:	15807778
ProjectID:	

Attn: **Bharti Ujjani**
URS Corporation
1255 Broad Street
Clifton, NJ 07013

Phone:	(973) 785-0700
Fax:	(973) 785-0023
Received:	12/08/14 2:45 PM
Collected:	12/8/2014

Project: **15807778.01000**

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

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
2-1	201417555-0008	12/8/2014	12/9/2014	144 in²	10 µg/ft²
	Site: Stairway				
2-2	201417555-0009	12/8/2014	12/9/2014	50 in²	57 µg/ft²
	Site: Activity Room				
2-3	201417555-0010	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Hall #5				
2-4	201417555-0011	12/8/2014	12/9/2014	128 in²	98 µg/ft²
	Site: Vending Room				
2-5	201417555-0012	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Bathroom #4				
2-6	201417555-0013	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Bathroom #5				
2-7	201417555-0014	12/8/2014	12/9/2014	48 in²	<30 µg/ft²
	Site: Office #4				
2-8	201417555-0015	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Hall #5				
2-9	201417555-0016	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Office #6				
2-10	201417555-0017	12/8/2014	12/9/2014	120 in²	<12 µg/ft²
	Site: Office #3				
2-11	201417555-0018	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Foyer				
2-12	201417555-0019	12/8/2014	12/9/2014	48 in²	<30 µg/ft²
	Site: Waiting area				
2-13	201417555-0020	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Hall #1				
2-14	201417555-0021	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Room #2				
2-15	201417555-0022	12/8/2014	12/9/2014	48 in²	<30 µg/ft²
	Site: Room #2				

Julie Smith - Laboratory Director
NJ-NELAP Accredited:03036
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/ft² which is dependant 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 established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 12/09/2014 14:51:18

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 786-5974
http://www.EMSL.com cinnaminsonleadlab@emsl.com

EMSL Order:	201417555
CustomerID:	DAME50
CustomerPO:	15807778
ProjectID:	

Attn: **Bharti Ujjani**
URS Corporation
1255 Broad Street
Clifton, NJ 07013

Phone:	(973) 785-0700
Fax:	(973) 785-0023
Received:	12/08/14 2:45 PM
Collected:	12/8/2014

Project: **15807778.01000**

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

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
2-16	201417555-0023	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Cubby Room				
2-17	201417555-0024	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Restroom #2				
2-18	201417555-0025	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Restroom #3				
2-19	201417555-0026	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Hall #2				
2-20	201417555-0027	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Room #3				
2-21	201417555-0028	12/8/2014	12/9/2014	48 in²	<30 µg/ft²
	Site: Room #3				
2-22	201417555-0029	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Exam Room #1				
2-23	201417555-0030	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Treatment Room				
2-24	201417555-0031	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Hall #3				
2-25	201417555-0032	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Room #7				
2-26	201417555-0033	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Room #8				
2-27	201417555-0034	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Hall #4				
2-28	201417555-0035	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Room 1 entrance				
2-29	201417555-0036	12/8/2014	12/9/2014	144 in²	<10 µg/ft²
	Site: Restroom in Rm #1				
2-30	201417555-0037	12/8/2014	12/9/2014	48 in²	<30 µg/ft²
	Site: Room #1				

Julie Smith - Laboratory Director
NJ-NELAP Accredited:03036
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/ft² which is dependant 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 established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 12/09/2014 14:51:18

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 786-5974
http://www.EMSL.com cinnaminsonleadlab@emsl.com

EMSL Order:	201417555
CustomerID:	DAME50
CustomerPO:	15807778
ProjectID:	

Attn: **Bharti Ujjani**
URS Corporation
1255 Broad Street
Clifton, NJ 07013

Phone:	(973) 785-0700
Fax:	(973) 785-0023
Received:	12/08/14 2:45 PM
Collected:	12/8/2014

Project: **15807778.01000**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Area Sampled*	*Lead Concentration*
2-31	*201417555-0038*	12/8/2014	12/9/2014	144 in²	130 µg/ft²
	Site: Room #6				

Julie Smith - Laboratory Director
NJ-NELAP Accredited:03036
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/ft² which is dependant 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 established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 12/09/2014 14:51:18

Test Report ChmSnglePrm/nQC-7.32.3 Printed: 12/9/2014 2:51:18 PM

Page 4 of 4

Appendix C-3: Additional Dust Spike/Blank Sampling Data

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 786-5974
http://www.EMSL.com cinnaminsonleadlab@emsl.com

EMSL Order:	201417667
CustomerID:	DAME50
CustomerPO:	158007775
ProjectID:	

Attn: **Bharti Ujjani**
URS Corporation
1255 Broad Street
Clifton, NJ 07013

Phone:	(973) 785-0700
Fax:	(973) 785-0023
Received:	12/11/14 9:51 AM
Collected:	12/10/2014

Project: **15707775.01000**

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

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
12/10/14-1	201417667-0001	12/10/2014	12/11/2014	n/a	160 µg/wipe
	Site: Room 5				
12/10/14-2	201417667-0002	12/10/2014	12/11/2014	n/a	120 µg/wipe
	Site: Room 1				
12/10/14-3	201417667-0003	12/10/2014	12/11/2014	n/a	<10 µg/wipe
	Site: Room 3				
12/10/14-4	201417667-0004	12/10/2014	12/11/2014	n/a	<10 µg/wipe
	Site: Room 4				

Julie Smith - Laboratory Director
NJ-NELAP Accredited:03036
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/ft² which is dependant 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 established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 12/11/2014 15:01:09

Test Report ChmSnglePrm/nQC-7.32.3 Printed: 12/11/2014 3:01:09 PM

Page 1 of 1

Appendix D: Soil Sample Analytical Data

D-1: Soil Sampling Data Summary Sheet

Sample #	Subsample #	Area Description
3-1	6	Soil around entryway
3-2	1	Soil Spike for Quality Assurance
3-3	7	Soil in west corner of lot
3-4	8	Southeast Drip line
3-5	7	Soil near child play area
3-6	6	Soil along southeast edge of parcel
3-7	7	Turf and soil underneath turf

D-2: Soil Sampling Analytical Data

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 786-5974
http://www.EMSL.com cinnaminsonleadlab@emsl.com

EMSL Order:	201417555
CustomerID:	DAME50
CustomerPO:	15807778
ProjectID:	

Attn: **Bharti Ujjani**
URS Corporation
1255 Broad Street
Clifton, NJ 07013

Phone:	(973) 785-0700
Fax:	(973) 785-0023
Received:	12/08/14 2:45 PM
Collected:	12/4/2014

Project: **15807778.01000**

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

Client Sample Description	Lab ID	Collected	Analyzed	Lead Concentration
3-1	201417555-0001	12/4/2014	12/9/2014	<40 mg/Kg
	Site: Soil ground entryway			
3-2	201417555-0002	12/4/2014	12/9/2014	3200 mg/Kg
	Site: Dripline			
3-3	201417555-0003	12/4/2014	12/9/2014	110 mg/Kg
	Site: Soil in west corner of lot			
3-4	201417555-0004	12/4/2014	12/9/2014	100 mg/Kg
	Site: Soil along SE edge of building			
3-5	201417555-0005	12/4/2014	12/9/2014	290 mg/Kg
	Site: Soil near playground			
3-6	201417555-0006	12/4/2014	12/9/2014	150 mg/Kg
	Site: Soil along edge of lot			
3-7	201417555-0007	12/4/2014	12/9/2014	60 mg/Kg
	Site: Turf/playground			

Julie Smith - Laboratory Director
NJ-NELAP Accredited:03036
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 established by the AIHA-LAP, unless specifically indicated otherwise

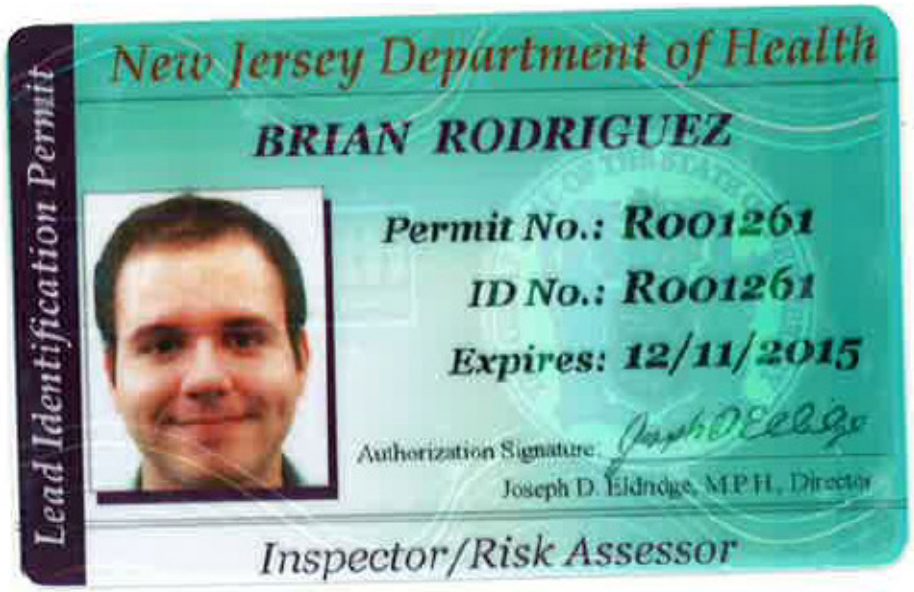
Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 12/09/2014 14:51:18

Test Report ChmSnglePrm/nQC-7.32.3 Printed: 12/9/2014 2:51:18 PM

Appendix E: Certifications, Licenses, and Accreditations

E-1: Lead-based Paint Inspector and Risk Assessor's License/Certification Information



This PERMIT has been issued in accordance with N.J.A.C. 8:62. You MUST have this PERMIT with you any time you are performing work for which it is required. Failure to carry this PERMIT or altering or falsifying this PERMIT may result in a civil administrative PENALTY of up to $1,000 per day for the first offense and up to $5,000/day for each subsequent offense. Each day shall constitute an additional and separate offense.

To report a lost or stolen PERMIT, defects to a PERMIT, or to find out how to renew a PERMIT, contact the NJ DOH (see below).

E-mail: iep.program@doh.state.nj.us
Web: www.state.nj.us/health/iep
Telephone: 609-826-4950
Fax: 609-826-4975
Address: NJ DOH, CEOHS, EOHAP
PO Box 372, Trenton, NJ 08625-0372

If this PERMIT is found abandoned, please send to the above address.

Issued By	Card Number	Issue Date
DA	R001261-1	12/11/2013

E-2: Copy of Firm's Lead Activity License/Certification

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

LOCATION
101 SOUTH BROAD STREET
TRENTON, NEW JERSEY 08618

STATE OF NEW JERSEY
DEPARTMENT OF COMMUNITY AFFAIRS
DIVISION OF CODES AND STANDARDS
BUREAU OF CODE SERVICES
LEAD HAZARD ABATEMENT

RICHARD E. CONSTABLE, III
Commissioner

MAILING ADDRESS
PO BOX 818
TRENTON, NJ 08625-0818

Certificate - Lead Evaluation Contractor

This is to certify that the Department of Community Affairs has

(XX) CERTIFIED
( ) RECERTIFIED

URS CORPORATION
1255 BROAD STREET
CLIFTON, NJ 07013

To act as a Lead Evaluation Contractor on the following projects

Residential
Public Buildings

Cert # 00554 E

Effective Date: AUGUST 1, 2013

Date of Expiration: JULY 31, 2015

Certificate Type: 2 YEAR

Sincerely,

James L. Amici
Supervisor of Certification
Lead Hazard Abatement Unit

KLACER (Rev. 08/27/2013)

E-3: Laboratory Accreditation Information

American Association for Laboratory Accreditation

Accredited Laboratory

A2LA has accredited

EMSL ANALYTICAL, INC.

Cinnaminson, NJ

for technical competence in the field of

Environmental Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

Presented this 11th day of September 2013.

President & CEO
For the Accreditation Council
Certificate Number 2845.01
Valid to May 31, 2015

For the tests to which this accreditation applies, please refer to the laboratory's Environmental Scope of Accreditation.

American Association for Laboratory Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL ANALYTICAL, INC.
200 Route 130 North
Cinnaminson, NJ 08077
Helen M. MacMinn Phone: 856 858 4800 x 2546

ENVIRONMENTAL

Valid To: May 31, 2015 Certificate Number: 2845.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform recognized EPA methods using the following testing technologies and in the analyte categories identified below; for the test methods applicable to the National Environmental Lead Laboratory Accreditation Program (NLLAP) and tests on children's products:

ENVIRONMENTAL LEAD	
Test	**Test Method(s)**
Total Lead (Pb) in Soil	EMSL Analytical, Inc. LM-007A (Modified EPA 7000B – (FLAA), 3050 Hotblock Digestion)
Total Lead (Pb) in Paint Chips	EMSL Analytical, Inc. LM-007B (Modified EPA 7000B – (FLAA), 3050 Hotblock Digestion)
Total Lead (Pb) in Dust Wipes	EMSL Analytical, Inc. LM-007C (Modified EPA 7000B – (FLAA), 3050 Hotblock Digestion)

AIR MATRIX	
Test	**Test Method(s)**
Total Lead (Pb) in Air	NIOSH 7082 – (FLAA)
Total Lead (Pb) in Air	NIOSH 7105 – (GFAA)
Total Metals in Air	EMSL Analytical, Inc. LM-003 (Modified NIOSH 7300 for ICP/ICP-MS)

5301 Buckeystown Pike, Suite 350 | Frederick, Maryland 21704-8373 | Phone: 301 644 3248 | Fax: 301 662 2974 | www.A2LA.org

Accreditation is also granted to this laboratory to perform the following tests on children's products:

CHEMICAL	
Test	**Test Method(s)**
Lead in Paint and Surface Coatings	16 CFR 1303 (using ASTM E1613 and E1645); CPSC-CH-E1003-09.1
Total Lead in Children's Metal Jewelry	CPSC-CH-E1001-08.1
Total Lead in Children's Metal Products	CPSC-CH-E1001-08.1
Total Lead in Children's Non-Metal Products	CPSC-CH-E1002-08
Phthalates	CPSC-CH-C1001-09.3 (using EPA SW-846 8270)
Soluble Heavy Metals Content (As, Ba, Cd, Cr, Pb, Hg, Sb, Se)	ASTM F 963-11 Section 4.3.5.1 & Section 4.3.5.2
Total Cadmium in Children's Metal Products Including Children's Metal Jewelry	EMSL Analytical, Inc. LM-016, (Modified CPSC-CH-E1001-08.1)
Total Cadmium in Children's Non Metal Products	EMSL Analytical, Inc. LM-016, (Modified CPSC-CH-E1002-08)

Accreditation is also granted to this laboratory to perform the following tests on brake friction materials:

ASBESTOS ANALYSIS	
Test	**Test Method(s)**
Sample Preparation by Drilling	SAE J2975
Polarized Light Microscopy	SAE J2975, EPA 600/R-93/116

Appendix F: Laboratory Chain of Custody Forms

OrderID: 201417555

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 201417555

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: URS CORP	EMSL-Bill to: ☑ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 1255 BROAD ST	*Third Party Billing requires written authorization from third party*
City: CLIFTON State/Province: NJ	Zip/Postal Code: 07013 Country: US
Report To (Name): BHARTI UJJANI	Telephone #: 973 883 8691
Email Address: BHARTI.UJJANI@URS.COM	Fax #: Purchase Order: 15807778
Project Name/Number: 15807778.01000	Please Provide Results: ☐ Fax ☑ Email
U.S. State Samples Taken: NJ	CT Samples: ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☐ 6 Hour ☑ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	Flame Atomic Absorption	0.01%	☐
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☐
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☒ non ASTM ☐ *If no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☒
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☒
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: Michael Collins Signature of Sampler: [signature]

Sample #	Location	Volume/Area	Date/Time Sampled
1 3-1	soil ground entryway		12/4/14
2 3-2	dripline		12/4/14
3 3-3	soil in west corner of lot		12/4/14
4 3-4	soil along SE edge of building		12/4/14
5 3-5	soil near playground		12/4/14

Client Sample #'s 3-1 - 3-5 Total # of Samples: 5 3/8

Relinquished (Client):	[signature]	Date:	12/8/14	Time:	2:45 pm
Received (Lab):	[signature]	Date:	12/8/14	Time:	2:45 P

Comments:

Page 1 of 3 pages

35

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only)*: 201417555

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Sample #	Location	Volume/Area	Date/Time Sampled
6	3-6	soil along SE edge of lot		12/4/14
7	3-7	turf / playground		12/4/14
8	2-1	stairway	144 in^2	12/8/14
9	2-2	activity room	50 in^2	12/8/14
10	2-3	hall #5	144 in^2	12/8/14
11	2-4	vending room	128 in^2	12/8/14
12	2-5	bathroom #4	144 in^2	12/8/14
13	2-6	bathroom #5	144 in^2	12/8/14
14	2-7	office #4	48 in^2	12/8/14
15	2-8	hall #5	144 in^2	12/8/14
16	2-9	office #6	144 in^2	12/8/14
17	2-10	office #3	120 in^2	12/8/14
18	2-11	foyer	144 in^2	12/8/14
19	2-12	waiting area	48 in^2	12/8/14
20	2-13	hall #1	144 in^2	12/8/14
21	2-14	room #2	144 in^2	12/8/14
22	2-15	room #2	48 in^2	12/8/14
23	2-16	cubby room	144 in^2	12/8/14

Comments/Special Instructions:

Page 2 of 3 pages

OrderID: 201417555

EMSL ANALYTICAL, INC.

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only):* 201417555

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Sample #	Location	Volume/Area	Date/Time Sampled
24	2-17	restroom #2	144 in^2	12/8/14
25	2-18	restroom #3	144 in^2	12/8/14
26	2-19	hall #2	144 in^2	12/8/14
27	2-20	room #3	144 in^2	12/8/14
28	2-21	room #3	48 in^2	12/8/14
29	2-22	exam room #1	144 in^2	12/8/14
30	2-23	treatment room	144 in^2	12/8/14
31	2-24	hall #3	144 in^2	12/8/14
32	2-25	room #7	144 in^2	12/8/14
33	2-26	room #8	144 in^2	12/8/14
34	2-27	hall #4	144 in^2	12/8/14
35	2-28	room 1 enterance	144 in^2	12/8/14
36	2-29	restroom in room #1	144 in^2	12/8/14
37	2-30	room #1	48 in^2	12/8/14
38	2-31	room #6	144 in^2	12/8/14

Comments/Special Instructions:

Page 3 of 3 pages

OrderID: 201417667

EMSL ANALYTICAL, INC.

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 201417667

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: URS		**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments**	
Street: 1255 Broad St		*Third Party Billing requires written authorization from third party*	
City: Clifton	**State/Province:** NJ	**Zip/Postal Code:** 07013	**Country:** US
Report To (Name): Bharti Ujjani		**Telephone #:** 973 883 8691	
Email Address: bharti.ujjani@urs.com		**Fax #:**	**Purchase Order:** 15807775
Project Name/Number: 15807775.01000		**Please Provide Results:** ☐ Fax ☑ Email	
U.S. State Samples Taken: NJ		**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☑ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	Flame Atomic Absorption	0.01%	☐
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☐
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☑ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☑
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: Michael Collins **Signature of Sampler:** Michael Collins

	Sample #	Location	Volume/Area	Date/Time Sampled
1	12/10/14-1	room 5		12/10/14
2	12/10/14-2	room 1		12/10/14
3	12/10/14-3	room 3		12/10/14
4	12/10/14-4	room 4		12/10/14

Client Sample #'s 12/10/14-1 - 12/10/14-4 **Total # of Samples:** 4

Relinquished (Client):	Michael Collins	**Date:**	12/10/14	**Time:**	4:30
Received (Lab):	[illegible]	**Date:**	12/11/14	**Time:**	9:51 LD

Comments:

Page 1 of ____ pages

Page 1 Of 1