LEAD BASED PAINT INSPECTION REPORT

FOR

DEPARTMENT OF HEALTH OF PUERTO RICO

SAMPLING CONDUCTED AT
SELECTIVE AREAS OF
DIAGNOSTIC AND TREATMENT CENTER
ADJUNTAS, PR

ZEM-19058

MARCH, 2019

PREPARED BY:
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SECTION 1: EXECUTIVE SUMMARY

1.1 INTRODUCTION

A Lead-Based Paint inspection was conducted on February 27, 2019 at Selective Areas of the Adjuntas' Diagnostic and Treatment Center in Adjuntas, PR. The lead-based paint inspection was performed to identify paint that contains lead above allowable levels and assist with the compliance of local, state and federal regulations.

1.2 SUMMARY OF PROPERTY EVALUATION

The project consisted of the evaluation of selective interior areas of the aforementioned facilities. The evaluation found that lead based paint was present in selective components and surfaces through the areas on the date of the inspection. Table 1-1 identifies the components positive for lead. Table 2-1 identifies lead-based paint as defined by the U.S. Environmental Protection Agency (EPA) and the Environmental Quality Board (EQB). For specific locations and additional detail on the location of lead- reference Sections 2 and 3.

1.3 PROPERTY LOCATIONS OF BUILDING COMPONENTS WITH LEAD-BASED PAINT

Table 1-1 summarizes the site components and surfaces coated with lead-based paint. Details that identify positive lead-based paint findings within specific areas and on surfaces were provided in the Lead-based paint inspection report. The "substrate" is the building component material directly beneath the painted surface. Photographic documentation is for reference purposes and doesn't necessarily include all the surfaces with lead based paint and/or components containing lead.

Table 1-1: Summary of Components containing Lead

Area	Component	Color	Substrate	Approximate Amount
Medical Assistance ***Public*** Men's Bathroom	Lavatory & Toilet	White	Ceramic	1 Unit ea.
Medical Assistance ***Public*** Women's Bathroom	Lavatories	White	Ceramic	2 Units
	Wall D	Cream	Concrete	40 Ft^2
Medical Assistance ***Staff*** Women's Bathroom	Wall D	Cream	Concrete	15 Ft^2
	Toilet	White	Ceramic	1 Unit
Medical Assistance ***Staff*** Men's Bathroom	Lavatory & Toilet	White	Ceramic	1 Unit ea.

Note:

- The quantification of positives materials presented in this table is only an estimate. If an abatement of the materials will be conducted, the Contractors shall estimate the amount of materials to be abated.

Table 1-1: Summary of Components containing Lead				
Area	**Component**	**Color**	**Substrate**	**Approximate Amount**
Newborns Delivery Room Areas 1-5 & 1-23	Sinks	White	Ceramic	2 Units
Newborns Delivery Room Areas 1-9, 1-13 & 1-16	Lavatories	White	Ceramic	4 Units
Newborns Delivery Room Area 1-25	Toilet	White	Ceramic	1 Unit

Note:

- The quantification of positives materials presented in this table is only an estimate. If an abatement of the materials will be conducted, the Contractors shall estimate the amount of materials to be abated.

SECTION 2: LEAD-BASED PAINT INSPECTION REPORT

2.1 OVERVIEW OF THE EVALUATION

This lead-based paint inspection is an investigation to identify all lead-based paint on a surface-by-surface basis. A lead-based paint inspection conforming to HUD guidelines was performed at the aforementioned property.

Averages of 261 samples were taken at identified surfaces of the evaluated areas using X-ray fluorescence (XRF) analyzer. The evaluation found that lead-based paint was present in selective components and surfaces through the site on the date of the assessment (See Table 1-1).

Some of the remaining XRF test locations exhibited lead-in-paint levels below the level that EPA identifies as lead-based paint, namely 1.0 mg/cm^2. Such surfaces could create dust-lead or soil-lead hazards if the paint is turned into dust by abrasion, scraping, or sanding. Should these or any lead containing components or surfaces be disturbed in any manner that generates dust, care should be taken to limit its spread.

Testing was performed by Harry Peña, state-certified lead inspector 2290-1018-LI-002, using the Niton XLp-300A XRF, SN-25492. The credentials are provided in Section 3, Appendix C: Certifications, Licenses, and Accreditations. The XRF analyzer is designed to measure the lead content of surface coatings on a variety of building surfaces, substrates, and components. The measurement is rapid and nondestructive and, according to the manufacturer, is capable of detecting lead concentrations that occur within numerous layers of various surface coatings.

Please refer to the XRF Testing Results Section 3, Appendix D: XRF Sampling Data for the detailed analytical testing results for each distinct area inspected. The reports provide a complete testing data.

2.2 SAMPLING PROCEDURE AND RESULTS PRESENTATION

The Lead Based Paint Sampling Procedure was design to evaluate and document all the data obtained form the inspection in a sequential method that provided confidence at the moment of the results presentation.

The survey was performed following the methodology established in the HUD Guidelines for the Evaluation and Control of Lead Based Paint in Housing (2012 revision) and the PREQB Lead Based Paint Abatement Control Regulation. The surfaces evaluation was performed as follows:

- If the lead concentration measured by the XRF Spectrum Analyzer is less than 1.0 mg/cm^2 it is considered negative.

- If the lead concentration measured by the XRF Spectrum Analyzer is equal or greater than 1.0 mg/cm^2 it is considered positive.

To each functional space of the property a name was assigned according to the use of that space. If no name could be assigned then a code letter or number was assigned. The room numbers will be assigned clockwise as you enter the structure and go towards the left always.

Each wall surface was named with letters beginning with wall A the wall facing the main entrance direction. The wall at your left will be wall B, the wall at front wall C and the wall at you right will be wall D.

2.3 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

	EPA/EQB Levels
Lead-Based Paint	**1.0 mg/cm^2 or 0.5% by weight (or 5,000 ppm)**

2.4 CONDITIONS AND LIMITATIONS—DISCLAIMER

Zimmetry Environmental Management Corp. has performed this lead-based paint inspection in a thorough and professional manner consistent with commonly accepted industry standards. The Preparer cannot guarantee and does not warrant that this evaluation has identified all adverse environmental factors and/or conditions affecting this property on the date of the evaluation.

The results reported and conclusions reached by the Preparer are solely for the benefit of the Owner. The results and opinions in this report, based solely on the conditions found at the property on the date of the evaluation, are valid only on that date. The Preparer assumes no obligation to advise the client of any changes in any real or potential lead-based paint hazards at this residence beyond the date of the property evaluation.

The lead inspection was performed to ready accessible components and surfaces. If suspected components that could contain lead are encountered underneath current installed tiles or other construction material, they shall be managed as containing lead until the appropriate test is performed.

2.5 ABATEMENT CONDITIONS

Abatement, as defined by HUD and the Puerto Rico Environmental Quality Board (EQB), means any set of measures designed to eliminate lead-based paint and/or lead-based paint hazards permanently. The people providing these services must to be trained in accordance with the EQB licensing/certification requirements. The product manufacturer and/or

contractor must warrant abatement methods to last a minimum of 20 years, or these methods must have a design life of at least 20 years.

Abatement activities may include, but are not necessarily limited to:

- onsite or offsite removal of lead-based paint from substrates and components
- replacement of components or fixtures painted with lead-based paint
- permanent enclosure of lead-based paint with construction materials mechanically-fastened to the substrate
- encapsulation of lead-based paint with specially designed encapsulant products
- removal or permanent covering (concrete or asphalt) of soil-lead-based paint hazards

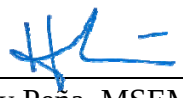
If enclosure or encapsulation is conducted as an abatement method, the lead-based paint remains on the property, so ongoing lead-based paint maintenance is required.

2.6 RECOMMENDATIONS

According to the EQB lead regulations, prior to the demolishing of a structure containing lead based paint, the contaminated surfaces or substrates must be abated or removed. The waste generated has to be characterized to determine if the waste generated is hazardous or non hazardous waste. The firm providing the abatement services must be certified as an abatement firm by the EQB. Workers conducting abatement must be trained and certified as abatement workers by a training provider accredited by the EQB.

2.7 ENVIRONMENTAL ASSESSMENT REPORT CERTIFICATION

Zimmetry Environmental Management Corp. has performed this lead-based paint inspection in a thorough and professional manner consistent with commonly accepted industry standards. The inspection was conducted on February 27, 2019 by Harry Peña, state-certified lead inspector 2290-1018-LI-002, qualified by experience, education and training in the recognition of lead based paint and approved sampling techniques using the Niton XLp-300A XRF, SN-25492.



Harry Peña, MSEM
Environmental Building Consultant

SECTION 3: APPENDICES

Appendix A: XRF Sampling Data

Appendix B: Project Photographs

Appendix C: Certifications, Licenses, and Accreditations

Appendix D: XRF's Performance Characteristics Sheet

Appendix E: Location of Positive Materials

APPENDIX A: XRF SAMPLING DATA

PROJECT:	Centro de Diagnóstico & Tratamiento de Adjuntas, Adjuntas, PR			CLIENT: Departamento de Salud			
DATE:	2/27/2019	SN-25492		LBP Inspector: Harry Peña			
Sample ID.	Functional Space	Location	Color	Subst.	XRF Reading	Pos/Neg	Comments
1	Calibration				1.00		
2	Calibration				1.00		
3	Calibration				1.00		
4	Asistencia Médica Men's Bathroom	Door	Brown	Metal	0.00	Negative	Participant
5	Asistencia Médica Men's Bathroom	Door Casing	Brown	Metal	0.00	Negative	
6	Asistencia Médica Men's Bathroom	Wall A	Cream	Concrete	0.00	Negative	
7	Asistencia Médica Men's Bathroom	Wall B	Cream	Concrete	0.00	Negative	
8	Asistencia Médica Men's Bathroom	Wall C	Cream	Concrete	0.00	Negative	
9	Asistencia Médica Men's Bathroom	Wall D	Cream	Concrete	0.00	Negative	
10	Asistencia Médica Men's Bathroom	Lavatory	White	Ceramic	2.60	Positive	
11	Asistencia Médica Men's Bathroom	Toilet	White	Ceramic	1.20	Positive	
12	Asistencia Médica Men's Bathroom	Urinal	White	Ceramic	0.00	Negative	
13	Asistencia Médica Men's Bathroom	Ceiling	White	Concrete	0.00	Negative	
14	Asistencia Médica Men's Bathroom	Wall Tile	Cream	Concrete	0.00	Negative	
15	Asistencia Médica Men's Bathroom	Floor Tile	Cream	Concrete	0.00	Negative	
16	Asistencia Médica Women's Bath	Lavatory	White	Ceramic	2.60	Positive	Participant
17	Asistencia Médica Women's Bath	Lavatory	White	Ceramic	4.60	Positive	
18	Asistencia Médica Women's Bath	Toilet	White	Ceramic	0.00	Negative	
19	Asistencia Médica Women's Bath	Wall Tile	Cream	Ceramic	0.00	Negative	
20	Asistencia Médica Women's Bath	Floor Tile	Cream	Ceramic	0.00	Negative	
21	Asistencia Médica Women's Bath	Ceiling	White	Concrete	0.00	Negative	
22	Asistencia Médica Women's Bath	Wall A	Cream	Concrete	0.00	Negative	
23	Asistencia Médica Women's Bath	Wall B	Cream	Concrete	0.00	Negative	
24	Asistencia Médica Women's Bath	Wall C	Cream	Concrete	0.00	Negative	
25	Asistencia Médica Women's Bath	Wall D	Cream	Concrete	0.00	Negative	
26	Asistencia Médica Women's Bath	Door	Brown	Metal	0.00	Negative	
27	Asistencia Médica Women's Bath	Door Casing	Brown	Metal	0.00	Negative	
28	Asistencia Médica Women's Bath	Wall D	Cream	Concrete	1.40	Positive	
29	Asistencia Médica Women's Bath	Door	Brown	Wood	0.00	Negative	Employs
30	Asistencia Médica Women's Bath	Door Casing	Brown	Metal	0.00	Negative	
31	Asistencia Médica Women's Bath	Wall A	Cream	Concrete	0.00	Negative	
32	Asistencia Médica Women's Bath	Wall B	Cream	Concrete	0.00	Negative	
33	Asistencia Médica Women's Bath	Wall C	Cream	Concrete	0.00	Negative	
34	Asistencia Médica Women's Bath	Wall D	Cream	Concrete	1.20	Positive	
35	Asistencia Médica Women's Bath	Lavatory	White	Ceramic	0.00	Negative	
36	Asistencia Médica Women's Bath	Toilet	White	Ceramic	2.30	Positive	
37	Asistencia Médica Women's Bath	Wall Tile	Cream	Ceramic	0.01	Negative	
38	Asistencia Médica Women's Bath	Floor Tile	Cream	Ceramic	0.00	Negative	
39	Asistencia Médica Men's Bathroom	Door	Brown	Metal	0.00	Negative	Employs
40	Asistencia Médica Men's Bathroom	Door Casing	Brown	Metal	0.00	Negative	
41	Asistencia Médica Men's Bathroom	Wall A	Cream	Concrete	0.00	Negative	
42	Asistencia Médica Men's Bathroom	Wall B	Cream	Concrete	0.00	Negative	
43	Asistencia Médica Men's Bathroom	Wall C	Cream	Concrete	0.00	Negative	
44	Asistencia Médica Men's Bathroom	Wall D	Cream	Concrete	0.00	Negative	
45	Asistencia Médica Men's Bathroom	Wall Tile	Cream	Ceramic	0.00	Negative	
46	Asistencia Médica Men's Bathroom	Lavatory	White	Ceramic	3.80	Positive	
47	Asistencia Médica Men's Bathroom	Toilet	White	Ceramic	4.80	Positive	
48	Clinicas Externas	Door	Brown	Metal	0.00	Negative	
49	Clinicas Externas	Door Casing	Cream	Metal	0.00	Negative	
50	Clinicas Externas	Wall A	Cream	Concrete	0.00	Negative	
51	Clinicas Externas	Wall B	Cream	Concrete	0.00	Negative	
52	Clinicas Externas	Wall C	Cream	Concrete	0.00	Negative	
53	Clinicas Externas	Wall D	Cream	Concrete	0.00	Negative	
54	Clinicas Externas	Handrail	Cream	Metal	0.00	Negative	
55	Clinicas Externas	Step	Cream	Concrete	0.00	Negative	
56	Administration- Women's Bathroom	Door	Gray	Metal	0.00	Negative	
57	Administration- Women's Bathroom	Door Casing	Gray	Metal	0.00	Negative	
58	Administration- Women's Bathroom	Wall A	Green	Concrete	0.00	Negative	
59	Administration- Women's Bathroom	Wall C	Green	Concrete	0.00	Negative	
60	Administration- Women's Bathroom	Wall D	Green	Concrete	0.00	Negative	
61	Administration- Women's Bathroom	Wall Tile	Cream	Ceramic	0.02	Negative	

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Sample ID.	Functional Space	Location	Color	Subst.	XRF Reading	Pos/Neg	Comments
62	Administration- Women's Bathroom	Floor Tile	Cream	Ceramic	0.01	Negative	
63	Administration- Women's Bathroom	Lavatory	White	Ceramic	0.01	Negative	
64	Administration- Women's Bathroom	Toilet	White	Ceramic	0.03	Negative	
65	Administration- Women's Bathroom	Ceiling	White	Concrete	0.00	Negative	
66	Administration- Men's Bathroom	Toilet	White	Ceramic	0.01	Negative	
67	Administration- Men's Bathroom	Lavatory	White	Ceramic	0.03	Negative	
68	Administration- Men's Bathroom	Urinal	Cream	Ceramic	0.00	Negative	
69	Administration- Men's Bathroom	Wall A	Green	Concrete	0.00	Negative	
70	Administration- Men's Bathroom	Wall B	Green	Concrete	0.00	Negative	
71	Administration- Men's Bathroom	Wall C	Green	Concrete	0.04	Negative	
72	Administration- Men's Bathroom	Wall D	Green	Concrete	0.00	Negative	
73	Administration- Men's Bathroom	Ceiling	White	Concrete	0.00	Negative	
74	Administration- Men's Bathroom	Wall Tile	Cream	Ceramic	0.02	Negative	
75	Administration- Men's Bathroom	Floor Tile	Cream	Ceramic	0.00	Negative	
76	Administration- Men's Bathroom	Door	Gray	Metal	0.00	Negative	
77	Administration- Men's Bathroom	Door Casing	Gray	Metal	0.05	Negative	
78	Sala de Parto, Area 1-1	Wall Tile	Yellow	Ceramic	0.10	Negative	
79	Sala de Parto, Area 1-1	Wall Tile	Yellow	Ceramic	0.04	Negative	
80	Sala de Parto, Area 1-1	Door	White	Wood	0.00	Negative	
81	Sala de Parto, Area 1-1	Door Casing	White	Wood	0.00	Negative	
82	Sala de Parto, Area 1-1	Wall A	Green	Concrete	0.00	Negative	
83	Sala de Parto, Area 1-1	Wall B	Green	Concrete	0.00	Negative	
84	Sala de Parto, Area 1-1	Wall C	Green	Concrete	0.00	Negative	
85	Sala de Parto, Area 1-1	Wall D	Green	Concrete	0.00	Negative	
86	Sala de Parto, Area 1-1	Floor Tile	Cream	Ceramic	0.00	Negative	
87	Sala de Parto, Area 1-2	Door	Gray	Wood	0.00	Negative	
88	Sala de Parto, Area 1-2	Door Casing	Gray	Metal	0.00	Negative	
89	Sala de Parto, Area 1-2	Wall A	Green	Concrete	0.00	Negative	
90	Sala de Parto, Area 1-2	Wall B	Green	Concrete	0.00	Negative	
91	Sala de Parto, Area 1-2	Wall C	Green	Concrete	0.00	Negative	
92	Sala de Parto, Area 1-2	Wall D	Green	Concrete	0.00	Negative	
93	Sala de Parto, Area 1-2	Wall Tile	Cream	Ceramic	0.02	Negative	
94	Sala de Parto, Area 1-2	Floor Tile	Cream	Ceramic	0.00	Negative	
95	Sala de Parto, Area 1-3	Wall Tile	Cream	Ceramic	0.08	Negative	
96	Sala de Parto, Area 1-3	Wall A	Green	Concrete	0.00	Negative	
97	Sala de Parto, Area 1-3	Wall B	Green	Concrete	0.00	Negative	
98	Sala de Parto, Area 1-3	Wall C	Green	Concrete	0.00	Negative	
99	Sala de Parto, Area 1-3	Wall D	Green	Concrete	0.00	Negative	
100	Sala de Parto, Area 1-4	Floor Tile	Yellow	Ceramic	0.00	Negative	
101	Sala de Parto, Area 1-4	Wall Tile	Purple	Ceramic	0.00	Negative	
102	Sala de Parto, Area 1-4	Door	Gray	Wood	0.00	Negative	
103	Sala de Parto, Area 1-4	Door Casing	Gray	Wood	0.00	Negative	
104	Sala de Parto, Area 1-5	Door	Gray	Wood	0.00	Negative	
105	Sala de Parto, Area 1-5	Door Casing	Gray	Metal	0.00	Negative	
106	Sala de Parto, Area 1-5	Sink	White	Ceramic	8.80	Positive	
107	Sala de Parto, Area 1-5	Wall Tile	Yellow	Ceramic	0.00	Negative	
108	Sala de Parto, Area 1-6	Floor Tile	Purple	Ceramic	0.00	Negative	
109	Sala de Parto, Area 1-6	Wall Tile	Purple	Ceramic	0.00	Negative	
110	Sala de Parto, Area 1-6	Door	Gray	Wood	0.00	Negative	
111	Sala de Parto, Area 1-6	Door Casing	Gray	Wood	0.00	Negative	
112	Sala de Parto, Area 1-7	Door	Gray	Wood	0.00	Negative	
113	Sala de Parto, Area 1-7	Door Casing	Gray	Metal	0.00	Negative	
114	Sala de Parto, Area 1-7	Wall A	Green	Concrete	0.00	Negative	
115	Sala de Parto, Area 1-7	Wall B	Green	Concrete	0.00	Negative	
116	Sala de Parto, Area 1-7	Wall C	Green	Concrete	0.00	Negative	
117	Sala de Parto, Area 1-7	Wall D	Green	Concrete	0.00	Negative	
118	Sala de Parto, Area 1-7	Wall Tile	Cream	Ceramic	0.00	Negative	
119	Sala de Parto, Area 1-7	Floor Tile	Cream	Ceramic	0.00	Negative	
120	Sala de Parto, Area 1-7	Shelve	Green	Wood	0.00	Negative	
121	Sala de Parto, Area 1-8	Door	Gray	Wood	0.00	Negative	
122	Sala de Parto, Area 1-8	Door Casing	Gray	Metal	0.00	Negative	
123	Sala de Parto, Area 1-8	Wall Tile	Yellow	Ceramic	0.01	Negative	

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Sample ID.	Functional Space	Location	Color	Subst.	XRF Reading	Pos/Neg	Comments
124	Sala de Parto, Area 1-8	Floor Tile	Cream	Ceramic	0.02	Negative	
125	Sala de Parto, Area 1-8	Ceiling	White	Concrete	0.00	Negative	
126	Sala de Parto, Area 1-9	Door	Gray	Wood	0.00	Negative	
127	Sala de Parto, Area 1-9	Door Casing	Gray	Metal	0.00	Negative	
128	Sala de Parto, Area 1-9	Wall Tile	Yellow	Ceramic	0.00	Negative	
129	Sala de Parto, Area 1-9	Lavatory	White	Ceramic	2.80	Positive	
130	Sala de Parto, Area 1-10	Door	Gray	Wood	0.00	Negative	
131	Sala de Parto, Area 1-10	Door Casing	Gray	Metal	0.00	Negative	
132	Sala de Parto, Area 1-10	Wall A	Green	Concrete	0.00	Negative	
133	Sala de Parto, Area 1-10	Wall C	Green	Concrete	0.00	Negative	
134	Sala de Parto, Area 1-10	Wall D	Green	Concrete	0.00	Negative	
135	Sala de Parto, Area 1-10	Lavatory	White	Ceramic	0.03	Negative	
136	Sala de Parto, Area 1-11	Wall Tile	Yellow	Ceramic	0.00	Negative	
137	Sala de Parto, Area 1-11	Floor Tile	Purple	Ceramic	0.00	Negative	
138	Sala de Parto, Area 1-12	Door	White	Wood	0.00	Negative	
139	Sala de Parto, Area 1-12	Door Casing	White	Metal	0.00	Negative	
140	Sala de Parto, Area 1-12	Wall A	Green	Concrete	0.00	Negative	
141	Sala de Parto, Area 1-12	Wall B	Green	Concrete	0.00	Negative	
142	Sala de Parto, Area 1-12	Wall C	Green	Concrete	0.00	Negative	
143	Sala de Parto, Area 1-12	Wall D	Green	Concrete	0.00	Negative	
144	Sala de Parto, Area 1-13	Door	Gray	Wood	0.00	Negative	
145	Sala de Parto, Area 1-13	Door Casing	Gray	Metal	0.00	Negative	
146	Sala de Parto, Area 1-13	Wall A	Green	Concrete	0.00	Negative	
147	Sala de Parto, Area 1-13	Wall B	Green	Concrete	0.00	Negative	
148	Sala de Parto, Area 1-13	Wall C	Green	Concrete	0.00	Negative	
149	Sala de Parto, Area 1-13	Wall D	Green	Concrete	0.00	Negative	
150	Sala de Parto, Area 1-13	Lavatory	White	Ceramic	2.50	Positive	
151	Sala de Parto, Area 1-13	Lavatory	White	Ceramic	2.90	Positive	
152	Sala de Parto, Area 1-14	Door	Gray	Wood	0.00	Negative	
153	Sala de Parto, Area 1-14	Door Casing	Gray	Metal	0.00	Negative	
154	Sala de Parto, Area 1-14	Wall A	Green	Concrete	0.02	Negative	
155	Sala de Parto, Area 1-14	Wall B	Green	Concrete	0.00	Negative	
156	Sala de Parto, Area 1-14	Wall C	Green	Concrete	0.00	Negative	
157	Sala de Parto, Area 1-14	Wall D	Green	Concrete	0.00	Negative	
158	Sala de Parto, Area 1-14	Wall Tile	Cream	Ceramic	0.00	Negative	
159	Sala de Parto, Area 1-14	Floor Tile	Cream	Ceramic	0.03	Negative	
160	Sala de Parto, Area 1-15	Door	Gray	Wood	0.00	Negative	
161	Sala de Parto, Area 1-15	Door Casing	Gray	Metal	0.00	Negative	
162	Sala de Parto, Area 1-15	Wall A	Green	Concrete	0.02	Negative	
163	Sala de Parto, Area 1-15	Wall B	Green	Concrete	0.00	Negative	
164	Sala de Parto, Area 1-15	Wall C	Green	Concrete	0.00	Negative	
165	Sala de Parto, Area 1-15	Wall D	Green	Concrete	0.00	Negative	
166	Sala de Parto, Area 1-15	Wall Tile	Cream	Ceramic	0.00	Negative	
167	Sala de Parto, Area 1-15	Floor Tile	Cream	Ceramic	0.03	Negative	
168	Sala de Parto, Area 1-15	Urinal	White	Ceramic	0.01	Negative	
169	Sala de Parto, Area 1-16	Door	Gray	Wood	0.00	Negative	
170	Sala de Parto, Area 1-16	Door Casing	Gray	Metal	0.00	Negative	
171	Sala de Parto, Area 1-16	Wall A	Green	Concrete	0.00	Negative	
172	Sala de Parto, Area 1-16	Wall B	Green	Concrete	0.00	Negative	
173	Sala de Parto, Area 1-16	Wall C	Green	Concrete	0.00	Negative	
174	Sala de Parto, Area 1-16	Wall D	Green	Concrete	0.00	Negative	
175	Sala de Parto, Area 1-16	Lavatory	White	Ceramic	2.90	Positive	
176	Sala de Parto, Area 1-17	Door	Gray	Wood	0.00	Negative	
177	Sala de Parto, Area 1-17	Door Casing	Gray	Metal	0.00	Negative	
178	Sala de Parto, Area 1-17	Wall Tile	Cream	Ceramic	0.00	Negative	
179	Sala de Parto, Area 1-17	Floor Tile	Cream	Ceramic	0.00	Negative	
180	Sala de Parto, Area 1-17	Toilet	White	Ceramic	0.00	Negative	
181	Sala de Parto, Area 1-17	Ceiling	White	Concrete	0.00	Negative	
182	Sala de Parto, Area 1-18	Door	Gray	Wood	0.00	Negative	
183	Sala de Parto, Area 1-18	Door Casing	Gray	Metal	0.00	Negative	
184	Sala de Parto, Area 1-18	Wall Tile	Yellow	Ceramic	0.00	Negative	
185	Sala de Parto, Area 1-18	Floor Tile	Cream	Ceramic	0.00	Negative	
186	Sala de Parto, Area 1-19	Door	Gray	Wood	0.00	Negative	
187	Sala de Parto, Area 1-19	Door Casing	Gray	Metal	0.00	Negative	

PROJECT:	Centro de Diagnóstico & Tratamiento de Adjuntas, Adjuntas, PR			CLIENT: Departamento de Salud			
DATE:	2/27/2019	SN-25492		LBP Inspector: Harry Peña			
Sample ID.	Functional Space	Location	Color	Subst.	XRF Reading	Pos/Neg	Comments
188	Sala de Parto, Area 1-19	Wall Tile	Yellow	Ceramic	0.00	Negative	
189	Sala de Parto, Area 1-19	Floor Tile	Cream	Ceramic	0.00	Negative	
190	Sala de Parto, Area 1-20	Door	Gray	Wood	0.00	Negative	
191	Sala de Parto, Area 1-20	Door Casing	Gray	Metal	0.00	Negative	
192	Sala de Parto, Area 1-20	Wall Tile	Yellow	Ceramic	0.00	Negative	
193	Sala de Parto, Area 1-20	Window Shutter	White	Ceramic	0.00	Negative	
194	Sala de Parto, Area 1-20	Window Casing	Green	Metal	0.00	Negative	
195	Sala de Parto, Area 1-20	Lavatory	White	Ceramic	0.00	Negative	
196	Sala de Parto, Area 1-21	Door	Gray	Wood	0.00	Negative	
197	Sala de Parto, Area 1-21	Door Casing	Gray	Metal	0.00	Negative	
198	Sala de Parto, Area 1-21	Wall Tile	Yellow	Ceramic	0.00	Negative	
199	Sala de Parto, Area 1-21	Floor Tile	Cream	Ceramic	0.00	Negative	
200	Sala de Parto, Area 1-21	Cabinet	Cream	Metal	0.00	Negative	
201	Sala de Parto, Area 1-21	Window Casing	White	Metal	0.00	Negative	
202	Sala de Parto, Area 1-22	Door	Gray	Wood	0.00	Negative	
203	Sala de Parto, Area 1-22	Door Casing	Gray	Metal	0.00	Negative	
204	Sala de Parto, Area 1-22	Wall Tile	Cream	Ceramic	0.00	Negative	
205	Sala de Parto, Area 1-22	Floor Tile	Cream	Ceramic	0.00	Negative	
206	Sala de Parto, Area 1-23	Door	Gray	Wood	0.00	Negative	
207	Sala de Parto, Area 1-23	Door Casing	Gray	Metal	0.00	Negative	
208	Sala de Parto, Area 1-23	Wall Tile	Cream	Ceramic	0.00	Negative	
209	Sala de Parto, Area 1-23	Floor Tile	Cream	Ceramic	0.00	Negative	
210	Sala de Parto, Area 1-23	Sink	White	Ceramic	3.70	Positive	
211	Sala de Parto, Area 1-23	Window Shutter	White	Metal	0.00	Negative	
212	Sala de Parto, Area 1-24	Door	Gray	Wood	0.00	Negative	
213	Sala de Parto, Area 1-24	Door Casing	Gray	Metal	0.00	Negative	
214	Sala de Parto, Area 1-24	Wall A	Green	Concrete	0.00	Negative	
215	Sala de Parto, Area 1-24	Wall B	Green	Concrete	0.00	Negative	
216	Sala de Parto, Area 1-24	Wall C	Green	Concrete	0.00	Negative	
217	Sala de Parto, Area 1-24	Wall D	Green	Concrete	0.00	Negative	
218	Sala de Parto, Area 1-24	Window Shutter	White	Metal	0.00	Negative	
219	Sala de Parto, Area 1-25	Door	Gray	Wood	0.00	Negative	
220	Sala de Parto, Area 1-25	Door Casing	Gray	Metal	0.00	Negative	
221	Sala de Parto, Area 1-25	Wall A	Green	Concrete	0.00	Negative	
222	Sala de Parto, Area 1-25	Wall B	Green	Concrete	0.00	Negative	
223	Sala de Parto, Area 1-25	Wall C	Green	Concrete	0.00	Negative	
224	Sala de Parto, Area 1-25	Wall D	Green	Concrete	0.00	Negative	
225	Sala de Parto, Area 1-25	Wall Tile	Cream	Ceramic	0.00	Negative	
226	Sala de Parto, Area 1-25	Floor Tile	Cream	Ceramic	0.00	Negative	
227	Sala de Parto, Area 1-25	Lavatory	White	Ceramic	0.00	Negative	
228	Sala de Parto, Area 1-25	Toilet	White	Ceramic	2.30	Positive	
229	Sala de Parto, Area 1-25	Ceiling	White	Concrete	0.00	Negative	
230	Sala de Parto, Area 1-26	Door	Gray	Wood	0.00	Negative	
231	Sala de Parto, Area 1-26	Door Casing	Gray	Metal	0.00	Negative	
232	Sala de Parto, Area 1-26	Wall A	Green	Concrete	0.00	Negative	
233	Sala de Parto, Area 1-26	Wall B	Green	Concrete	0.00	Negative	
234	Sala de Parto, Area 1-26	Wall C	Green	Concrete	0.00	Negative	
235	Sala de Parto, Area 1-26	Wall D	Green	Concrete	0.00	Negative	
236	Sala de Parto, Area 1-26	Wall Tile	Cream	Ceramic	0.00	Negative	
237	Sala de Parto, Area 1-26	Floor Tile	Cream	Ceramic	0.00	Negative	
238	Sala de Parto, Area 1-26	Ceiling	White	Concrete	0.00	Negative	
239	Sala de Parto, Area 1-26	Shelve	Green	Wood	0.00	Negative	
240	Sala de Parto, Area 1-27	Door	Gray	Wood	0.00	Negative	
241	Sala de Parto, Area 1-27	Door	Gray	Wood	0.00	Negative	
242	Sala de Parto, Area 1-27	Door Casing	Gray	Metal	0.00	Negative	
243	Sala de Parto, Area 1-27	Wall A	Green	Concrete	0.00	Negative	
244	Sala de Parto, Area 1-27	Wall B	Green	Concrete	0.00	Negative	
245	Sala de Parto, Area 1-27	Wall C	Green	Concrete	0.00	Negative	
246	Sala de Parto, Area 1-27	Wall D	Green	Concrete	0.00	Negative	
247	Sala de Parto, Area 1-27	Wall Tile	Cream	Ceramic	0.00	Negative	
248	Sala de Parto, Area 1-27	Floor Tile	Cream	Ceramic	0.00	Negative	
249	Sala de Parto, Area 1-27	Lavatory	White	Ceramic	0.00	Negative	
250	Sala de Parto, Area 1-27	Toilet	White	Ceramic	2.30	Positive	
251	Sala de Parto, Area 1-27	Ceiling	White	Concrete	0.00	Negative	

PROJECT:	Centro de Diagnóstico & Tratamiento de Adjuntas, Adjuntas, PR			CLIENT: Departamento de Salud			
DATE:	2/27/2019	SN-25492		LBP Inspector: Harry Peña			
Sample ID.	Functional Space	Location	Color	Subst.	XRF Reading	Pos/Neg	Comments
252	Sala de Parto, Area 1-28	Door	Gray	Wood	0.00	Negative	
253	Sala de Parto, Area 1-28	Door Casing	Gray	Metal	0.00	Negative	
254	Sala de Parto, Area 1-28	Wall A	Green	Concrete	0.00	Negative	
255	Sala de Parto, Area 1-28	Wall B	Green	Concrete	0.00	Negative	
256	Sala de Parto, Area 1-28	Wall C	Green	Concrete	0.00	Negative	
257	Sala de Parto, Area 1-28	Wall D	Green	Concrete	0.00	Negative	
258	Sala de Parto, Area 1-28	Window Shutter	White	Metal	0.00	Negative	
259	Calibration				1.00		
260	Calibration				1.00		
261	Calibration				1.00		

APPENDIX B: PROJECT PHOTOGRAPHS

Medical Assistance *Public Men's* Bathroom
Lead containing ceramic lavatory

Medical Assistance *Public Men's* Bathroom
Lead containing ceramic toilet

Medical Assistance *Public Women's* Bathroom
Lead containing ceramic lavatories

Medical Assistance *Public Women's* Bathroom
Lead based painted concrete wall

Photographic documentation is for reference purposes and doesn't necessarily include all the surfaces with lead based paint and/or components containing lead

APPENDIX B: PROJECT PHOTOGRAPHS

Medical Assistance *Staff Women's* Bathroom
Lead based painted concrete wall

Medical Assistance *Staff Women's* Bathroom
Lead containing ceramic toilet

Medical Assistance *Staff Men's* Bathroom
Lead containing ceramic lavatory & toilet

Newborns Delivery Room Area 1-5
Lead containing ceramic sink

Photographic documentation is for reference purposes and doesn't necessarily include all the surfaces with lead based paint and/or components containing lead

APPENDIX B: PROJECT PHOTOGRAPHS

Newborns Delivery Room Area 1-9
Lead containing ceramic lavatory

Newborns Delivery Room Area 1-13
Lead containing ceramic lavatories

Newborns Delivery Room Area 1-16
Lead containing ceramic lavatory

Newborns Delivery Room Area 1-23
Lead containing ceramic sink

Photographic documentation is for reference purposes and doesn't necessarily include all the surfaces with lead based paint and/or components containing lead

APPENDIX B: PROJECT PHOTOGRAPHS

Newborns Delivery Room Area 1-25
Lead containing ceramic toilet

Photographic documentation is for reference purposes and doesn't necessarily include all the surfaces with lead based paint and/or components containing lead

APPENDIX C: CERTIFICATIONS, LICENSES, AND ACCREDITATIONS

GOBIERNO DE PUERTO RICO
JUNTA DE CALIDAD AMBIENTAL

Este certificado es otorgado a:

Zimmetry Environmental Management, Corp.
(# s.social: 66-0606404)

Por haber cumplido con los requisitos establecidos en el Capítulo V, Regla 1541, sección B(2) del Reglamento para el Control de Actividades de Mitigación de Pintura con Base de Plomo. Se le otorga una certificación en la disciplina de

Empresa

Para llevar a cabo actividades de mitigación de pintura con base de plomo en la jurisdicción de Puerto Rico

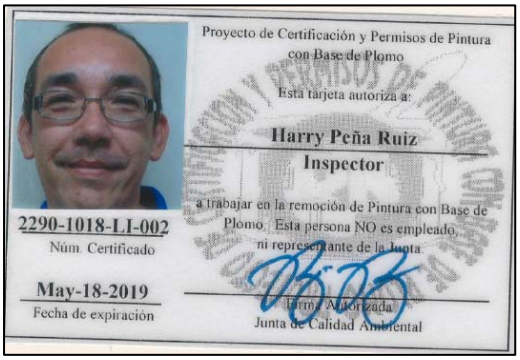
Número de Certificado
5536-0219-LF-001

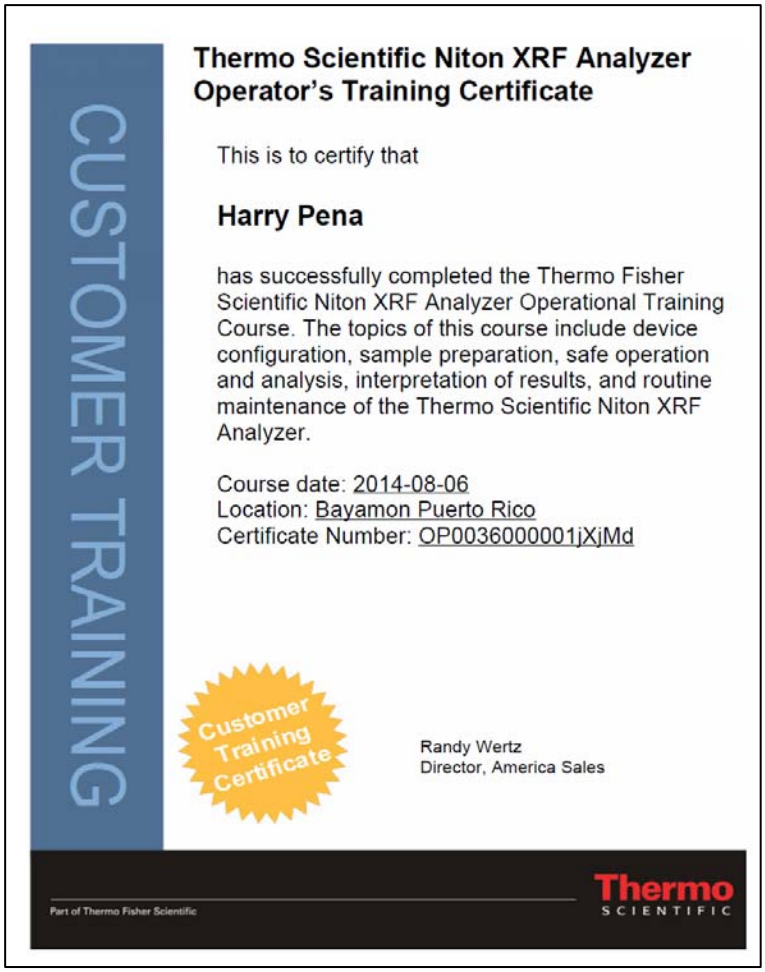
Este certificado está sujeto a ser revocado, suspendido, modificado o enmendado debido a causas que incluyan evidencia de no cumplimiento, información falsa provista en la solicitud o por cualquier alteración que afecte la habilidad de llevar a cabo las tareas efectivamente.

Fecha de emisión: 03 de marzo de 2019
Fecha de expiración: 02 de marzo de 2020

Tania Vázquez Rivera
Directora Ejecutiva

APPENDIX C: CERTIFICATIONS, LICENSES, AND ACCREDITATIONS





APPENDIX D: XRF's PERFORMANCE CHARACTERISTICS SHEET

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 <u>not</u> 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

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 E: LOCATION OF POSITIVE MATERIALS