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The Trusted Integrator for Sustainable Solutions

REMOVAL SUPPORT TEAM 2
EPA CONTRACT EP-W-06-072

December 6, 2012

Ms. Kimberly Staiger, On-Scene Coordinator
U.S. Environmental Protection Agency, Region II
Removal Action Branch
2890 Woodbridge Avenue
Edison, NJ 08837

EPA CONTRACT NO: EP-W-06-072

TDD NO: TO-0027-0097

DOCUMENT CONTROL NO: RST 2-02-F-2215

**SUBJECT: LEAD PAINT FIELD SCREENING TRIP REPORT - BARTH SMELTING
CORPORATION SITE, NEWARK, ESSEX COUNTY, NEW JERSEY**

Dear Ms. Staiger,

Enclosed please find the Lead Paint Field Screening Trip Report for the Barth Smelting Corporation Site located at 99 Chapel Street in Newark, Essex County, New Jersey. Field screening for lead based paint was conducted as part of the Removal Assessment of the property on December 3, 2012. If you have any questions, please do not hesitate to contact me at (732) 585-4441.

Sincerely,

Weston Solutions, Inc.

For Scott Snyder
Removal Support Team 2
Site Project Manager/Group Leader

Enclosure

cc: TDD File No: TO-0027-0097



LEAD PAINT FIELD SCREENING TRIP REPORT

SITE NAME: Barth Smelting Corporation
DC NO.: RST 2-02-F-2215
TDD NO.: TO-0027-0097

EPA SITE ID NO.: A22L
SAMPLING DATE: December 3, 2012

- 1. Site Location:** Barth Smelting Corporation, 99 Chapel Street, Newark, Essex County, New Jersey
Refer to Attachment A, Figure 1, Site Location Map

- 2. Field Screening Location:** Refer to Attachment A, Figure 2, Lead Field Screening Location Map and Attachment B, Table 1, Lead Field Screening Summary Table

3. Introduction:

The Barth Smelting Corporation operated on the Barth Smelting Corporation Site (the Site) from approximately 1946 to 1982 and produced brass and bronze ingots and also worked with non-ferrous metals. The Site is located in a highly industrialized and urban area of Newark, Essex County, New Jersey, adjacent to the Passaic River. The area of the Site has been industrialized since the late 1800s. The Site is currently occupied by various maritime shipping and maintenance facilities. A residential area consisting of an apartment complex operated by the City of Newark Housing Authority is located to the south. A playground and grass-covered play area are located just beyond the fence that separates the Site and the apartment complex. Additional residential properties are located across Chapel Street to the east.

In order to determine if lead is present in painted surfaces of the playground, Weston Solutions, Inc., Removal Support Team 2 (RST 2) performed field screening for playground equipment. This report has been prepared to document the field screening activities which were completed in support of the Removal Assessment.

4. Field Screening Summary:

On December 3, 2012, RST 2 conducted field screening activities for lead based paint for playground equipments located in between the Site and the apartment complex.

Field screening for lead in playground equipment paints was conducted using a portable X-ray fluorescence (XRF) analyzer. Locations for XRF field screening were selected at the discretion of the U.S. Environmental Protection Agency (EPA) On-Scene Coordinator (OSC). A total of 13 lead readings including two to three readings for each of the playground equipment and cinderblock wall separating the Site and playground were recorded. Locations for lead field screening records can be found in Attachment A, Figure 2.

5. Personnel On Site:

<u>Name</u>	<u>Representing</u>	<u>Duties On-Site</u>
Kimberly Staiger	U.S EPA, Region II	On-Scene Coordinator
Dipanjali Chavan	RST 2, Region II	XRF On-Site Field Screening Technician

6. Field Screening Discussion

Based on the field screening results, lead was detected at concentrations ranging from 0.05 to 0.19 milligrams per square centimeter (mg/cm²) for the playground equipment #1. For playground equipment #2, the lead concentrations ranged from 0.01 to 0.18 mg/cm². No lead was detected in paints in the playground equipment #3. Lead was detected at a concentration of 0.01 mg/cm² at one of the screening locations on the cinderblock wall located behind the play area. The U.S. Department of Housing and Urban Development (HUD) *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*, dated July 2012, Action Level for lead in paint is 1 mg/cm².

Refer to Attachment B, Table 1 for the Lead Paint Field Screening Summary Table.

7. Report Prepared By:



Dipanjali Chavan
Project Team Member, RST 2

Date

12/06/12

8. Report Reviewed By:



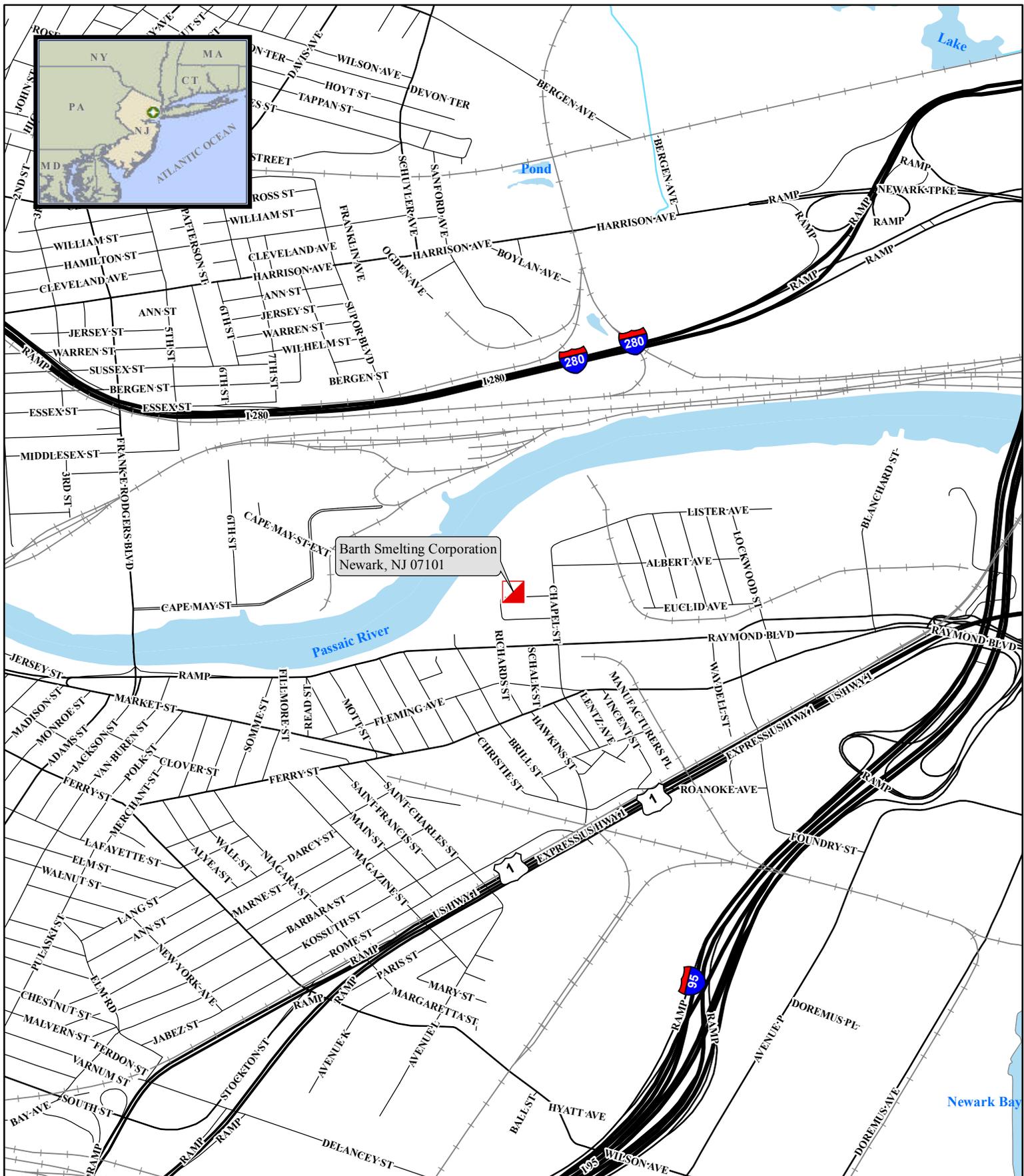
Timothy Benton
Operations Leader, RST 2

Date

12/6/12

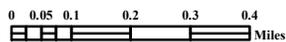
ATTACHMENT A

- Figure 1: Site Location Map
 - Figure 2: Lead Paint Field Screening Location Map
-



Legend

 **Site Location**



WESTON SOLUTIONS **Weston Solutions, Inc.**
Northeast Division

In Association With
H & S Environmental, Inc.,
Scientific and Environmental Associates, Inc.
and Avatar Environmental, LLC.

Figure 1	
Site Location Map	
Barth Smelting Corporation Site Newark, New Jersey	
U.S. ENVIRONMENTAL PROTECTION AGENCY REMOVAL SUPPORT TEAM 2 CONTRACT # EP-W-06-072	
GIS ANALYST:	T. BENTON
EPA OSC:	K. STAIGER
RST SPM:	S. SNYDER
FILENAME:	SITMAP.MXD
DATE MODIFIED:	12/6/2012



Barth Smelting Corporation Site

Cinderblock Wall

Playground Equip. #1

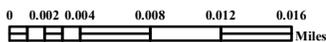
Playground Equip. #2

Playground Equip. #3

Date	Reading	Location	LPB Result Standard	LPB Concentration (Pb)	Pb +/-
Playground Equipment #1					
12/3/2012	1	Green steps	Negative	0	0
12/3/2012	2	Red railing	Negative	0.05	0.03
12/3/2012	3	Blue pole	Negative	0	0
12/3/2012	4	Spray paint on the sides of the landing (light blue)	Negative	0.19	0.02
Playground Equipment #2					
12/3/2012	5	Red railing	Negative	0.01	0.01
12/3/2012	6	Blue pole	Negative	0	0
12/3/2012	7	Spray paint	Negative	0.18	0.02
Playground Equipment #3					
12/3/2012	8	Red railing	Negative	0	0
12/3/2012	9	Blue pole	Negative	0	0
12/3/2012	10	Spray paint (white)	Negative	0	0
Cinderblock Wall					
12/3/2012	11	Location 1	Negative	0.01	0.01
12/3/2012	12	Location 2	Negative	0	0
12/3/2012	13	Location 3	Negative	0	0

Legend

Lead Paint Screening Location



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and Avatar Environmental, LLC.

Figure 2: Lead Paint Field Screening Location Map

Barth Smelting Corporation Site
Newark, New Jersey

U.S. ENVIRONMENTAL PROTECTION AGENCY
REMOVAL SUPPORT TEAM 2
CONTRACT # EP-W-06-072

DATE MODIFIED: 12/6/2012
GIS ANALYST: T. BENTON
EPA OSC: K. STAIGER
RST SPM: S. SNYDER
FILENAME: LEADMAPMXD

ATTACHMENT B

- Table 1: Lead Paint Field Screening Summary Table
-

Table 1
Lead Paint Field Screening Summary Table
Barth Smelting Corporation Site
December 3, 2012

Date	Reading	Location	LPB Result Standard	LPB Concentration (Pb)	Pb +/-
Playground Equipment #1					
12/3/2012	1	Green steps	Negative	0	0
12/3/2012	2	Red railing	Negative	0.05	0.03
12/3/2012	3	Blue pole	Negative	0	0
12/3/2012	4	Spray paint on the sides of the landing (light blue)	Negative	0.19	0.02
Playground Equipment #2					
12/3/2012	5	Red railing	Negative	0.01	0.01
12/3/2012	6	Blue pole	Negative	0	0
12/3/2012	7	Spray paint	Negative	0.18	0.02
Playground Equipment #3					
12/3/2012	8	Red railing	Negative	0	0
12/3/2012	9	Blue pole	Negative	0	0
12/3/2012	10	Spray paint (white)	Negative	0	0
Cinderblock Wall					
12/3/2012	11	Location 1	Negative	0.01	0.01
12/3/2012	12	Location 2	Negative	0	0
12/3/2012	13	Location 3	Negative	0	0

Notes:

All results are in mg/cm².

U.S. Department of Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, dated July 2012, Action Level is 1 mg/cm².