

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Jewett White Lead Removal (2000-2012 Richmond Terrace) - Removal Polrep
Initial Removal Polrep



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region II**

Subject: **POLREP #1**
Initial Report - Site Mobilization Activities
Jewett White Lead Removal (2000-2012 Richmond Terrace)
A218
Staten Island, NY
Latitude: 40.6396512 Longitude: -74.1304207

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Date: 10/22/2012
Reporting Period: September 26 - October 19, 2012

1. Introduction

1.1 Background

Site Number:	A218	Contract Number:	EP-S2-10-03
D.O. Number:	0056	Action Memo Date:	12/21/2011
Response Authority:	CERCLA	Response Type:	Non-Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	10/3/2012	Start Date:	
Demob Date:		Completion Date:	
CERCLIS ID:	NYD980531545	RCRIS ID:	
ERNS No.:	NA	State Notification:	
FPN#:	NA	Reimbursable Account #:	NA

1.1.1 Incident Category

This removal action involving the excavation and off-site disposal of lead contaminated soil is being performed by the U.S. Environmental Protection Agency under the removal authority pursuant to Section 104(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended ("CERCLA"), 42 U.S.C Section 9604(a) and Section 300.415 of the National Contingency Plan ("NCP"), 40 Code of Federal Regulations ("CFR") Part 300.

1.1.2 Site Description

Historically, John Jewett & Sons White Lead Company operated a white lead manufacturing facility which originated at 2015 Richmond Terrace where it owned and operated the Site from 1839 until 1890. White lead was formerly used as an ingredient for lead paint. Lead was added to paint to speed drying, increase durability, and resist corrosion from moisture.

On April 3, 1890, National Lead and Oil Company of New York ("National Lead") acquired the Site property. National Lead continued the manufacture of white lead at the Site, and extended the operations across the street to include the 2000 Richmond Terrace property. National Lead owned and operated at both Site properties until approximately 1943.

The Jewett White Lead Site at 2000-2012 Richmond Terrace, Staten Island, NY is an approximate 1 acre site that is located in a commercial/industrial area. Previous investigations on site have shown the site to contain lead contaminated soils. Contamination exists across the site on the surface and at depth. Depths of contamination range from 1 foot to possibly 8 ft in some locations. The average depth of excavation required to meet the removal action clean up goal of 800 ppm is approximately 3-5 ft.

Businesses are located to the north and east of the site with an abandoned, elevated rail line along the south border of the site. Just beyond the abandoned rail line to the south is a residential area. Two bus stops are located adjacent to the site, one to the northeast on Richmond Terrace and the other on Park Ave to the west. Richmond Terrace to the north/east is a primary road along the north shore of Staten Island. It can contain higher volumes of vehicular and pedestrian traffic.

1.1.2.1 Location

2000-2012 Richmond Terrace
Staten Island, NY 10302

1.1.2.2 Description of Threat

The site contains elevated levels of lead in the soil. Lead is a hazardous substance and is acutely and chronically toxic. The effects of lead are the same whether it enters the body through inhalation or ingestion. Lead can affect many systems and organs within the body. The main target for lead toxicity is the central nervous system. Elevated levels of lead have been identified horizontally and vertically within the site soils. The threat of migration exists if soils on site are disturbed without the implementation of proper engineering controls. Off site migration could impact residences and businesses surrounding the site.

The conditions at the Site meet the criteria for implementation of a CERCLA removal action under Section 300.415(b) of the NCP. The release and potential further release of hazardous substances at and from the Site presents a threat to public health, or welfare, or the environment.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

In December 2008 EPA collected soil samples from 16 test pits at the Site that were excavated to a depth of approximately four feet below grade. The analytical results from the sampling event in December 2008 revealed the presence of elevated levels of lead throughout most of that property, both laterally and with depth. The average surface lead concentration was 5,081 milligrams/kilogram (mg/kg). The highest lead concentration detected at the surface was 37,100 mg/kg, near the gate on Park Avenue. The average lead concentration in the soil samples collected at depths of 1-foot, 2-foot, and 3-foot below grade were 28,245 mg/kg, 61,201 mg/kg, and 53,398 mg/kg, respectively. The highest lead concentration detected in the subsurface was 240,000 mg/kg.

In October of 2010 EPA conducted additional investigations to determine the extent of lead contamination at the Site. The field screening results from the sampling event in October indicated that the elevated levels of lead were confined to the upper four feet of soil with the exception of a small well defined area located in the southwest corner of the property adjacent Park Ave. The average lead concentrations in the field screened soil samples collected at depths of 1-foot, 2-foot, 3-foot, 4-foot, and 5-foot below grade were 7,083 mg/kg, 20,340 mg/kg, 21,070 mg/kg, 14,388 mg/kg, and 5,752 mg/kg, respectively. The highest lead concentration detected in the subsurface was 97,921 mg/kg at the 2- to 3-foot depth interval.

2. Current Activities

2.1 Operations Section

On 10/3/2012, the EPA initiated the removal action at the Jewett White Lead Site. During the reporting period for this report EPA worked with its contractors to begin mobilization activities and conduct baseline air monitoring and sampling. The EPA also conducted outreach activities to local community groups, residences, and elected officials.

The EPA Emergency and Rapid Response Services (ERRS) Contractor mobilized to the site on 10/3/2012. The ERRS mobilization involved initiating the process for acquiring a NYC DOT permit for the staging of support equipment along the eastern side of Park Ave. That process was completed and the NYC DOT permit was received on 10/19/2012. The EPA ERRS Contractor also began the process of resourcing necessary site equipment and services required to conduct the removal action.

The EPA Removal Support Team (RST) Contractor provided initial baseline air monitoring and sampling on 10/11/2012. The monitoring and sampling activities were conducted to document site conditions prior to any intrusive activity. The activities occurred between the hours of 10am and 5:30 pm. Monitoring was conducted for Dust (PM10) and Volatile Organic Compounds (VOCs). Air samples were also collected during the activity and will be analyzed in the laboratory for lead using the NIOSH 7300 method. The VOC monitoring did not record any significant levels and the dust monitoring, using a DataRam Particulate Monitor, showed Time Weighted Average (TWA) readings in the 0.030 to 0.035 mg/m³ range. No intrusive activities were occurring while this monitoring was conducted. While not significantly elevated, the recorded results from the dust monitoring may have been caused from dust generated from local auto and truck traffic throughout the day. Laboratory results from the air sampling are anticipated on or about 10/19/2012 and will be reported on in the next report.

Representatives from EPA held a public availability session with local elected officials and local community groups on 9/26/2012. The availability session involved an overview of the planned removal action and measures to be implemented to safeguard the public during construction activities. On 10/2/2012, EPA Representatives engaged in a door-to-door outreach event. It involved visiting adjacent residences and business to provide notification and information related to the removal action.

Representatives from EPA also participated in a briefing for the members of Staten Island's Community Board 1. That briefing was held at the monthly community board meeting on 10/9/2012. The briefing included an overview of the removal action as well as measures being taken to safeguard the public during construction activities.

EPA continued with its coordination with the NYS DEC. NYS DEC was provided a copy of the Removal Action Work Plan (RAWP) and the Community Air Monitoring Plan (CAMP) for review and comment. A few comments were received by the DEC and incorporated into the plans.

EPA decommissioned (3) shallow, on-site monitoring wells on 10/16/2012. The decommission method was grouting in-place. Well casings will be removed during future excavation activities.

EPA has been working with representatives from the MTA to temporarily suspend and/or relocate two (2) bus stops adjacent to the Site. EPA has initiated this action through its ERRS contractor. The relocation and/or temporary suspension of the bus stops is pending MTA action.

2.2 Planning Section

The following actions are currently planned to occur during this removal action;

- Set up of site support facilities and equipment
- Clearing site vegetation
- Removal and decontamination of miscellaneous site debris
- Test pits and sampling activities for the purpose of pre-classifying soils for disposal
- Excavation, stockpile, and off-site treatment / disposal of lead contaminated soil
- Post excavation sampling and analysis to verify that the cleanup goal of 800 ppm is achieved
- Backfilling excavated areas with certified clean fill meeting NYS DEC unrestricted use standards.

2.3 Logistics Section

Nothing to report

2.4 Finance Section

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	\$1,109,000.00	\$0.00	\$1,109,000.00	100.00%
RST Contractor	\$36,000.00	\$0.00	\$36,000.00	100.00%
Intramural Costs				
Total Site Costs	\$1,145,000.00	\$0.00	\$1,145,000.00	100.00%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Other Command Staff

Not Applicable

3. Participating Entities

EPA is conducting this removal action under its CERCLA authority. EPA has and will continue to coordinate actions with many state and local organizations.

4. Personnel On Site

Agency / Organization	On-Site
EPA OSC	1
EPA ERRS Contractor	1
EPA RST Contractor	1

5. Definition of Terms

CAMP – Community Air Monitoring Plan
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
EPA – U.S. Environmental Protection Agency
ERRS – Emergency and Rapid Response Service Contractor
mg/kg – milligrams per kilogram (also equivalent to parts per million, ppm)
mg/m³ – milligrams per cubic meter
NCP – National Contingency Plan, 40 CFR Part 300
NYC DOH – New York City Department of Health
NYC DOT – New York City Department of Transportation
NYS DEC – New York State Department of Environmental Conservation
ppm – parts per million
RAWP – Removal Action Work Plan
RST – Removal Support Team Contractor
TWA – Time Weighted Average

6. Additional sources of information

For additional information related to previous EPA activities, investigations, and reports related to the Jewett White Lead Site, please visit the following website: www.epaosc.org/jewettwhitelead

7. Situational Reference Materials

No information available at this time.