

U.S. ENVIRONMENTAL PROTECTION AGENCY  
 POLLUTION/SITUATION REPORT  
 Former Chapman Valve Site - Removal Polrep  
 Final Removal Polrep



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**Region I**

**Subject:** POLREP #2  
 Final  
 Former Chapman Valve Site  
 01HD  
 Indian Orchard, MA  
 Latitude: 72.5010000 Longitude: -42.1560000

**To:** Carol Tucker, EPA R1 EPRB  
 Nancy Barmakian, USEPA - R1 OSRR  
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**From:** John Mckeown, On-scene coordinator

**Date:** 12/21/2015

**Reporting Period:** September 5 through December 21, 2015

## 1. Introduction

### 1.1 Background

<b>Site Number:</b>	01HD	<b>Contract Number:</b>	EP-W-08-061
<b>D.O. Number:</b>	0074	<b>Action Memo Date:</b>	10/6/2015
<b>Response Authority:</b>	CERCLA	<b>Response Type:</b>	Time-Critical
<b>Response Lead:</b>	EPA	<b>Incident Category:</b>	Removal Action
<b>NPL Status:</b>	Non NPL	<b>Operable Unit:</b>	
<b>Mobilization Date:</b>	8/17/2015	<b>Start Date:</b>	8/17/2015
<b>Demob Date:</b>	11/4/2015	<b>Completion Date:</b>	11/4/2015
<b>CERCLIS ID:</b>	MAD985279421	<b>RCRIS ID:</b>	
<b>ERNS No.:</b>		<b>State Notification:</b>	Yes
<b>FPN#:</b>		<b>Reimbursable Account #:</b>	

#### 1.1.1 Incident Category

Time-Critical Removal Action

#### 1.1.2 Site Description

The property owned by Chapman Valve Manufacturing Company (Chapman Valve) encompassed 54 acres. EPA's removal evaluation at the Site is focused on approximately 16 acres of the original property. According to the site file, Chapman Valve, one of the world's largest valve manufacturers, moved from Boston to the 54-acre site in 1874. In 1959, Crane Company (Crane Co.) purchased Chapman Valve. Crane Co. continued valve manufacturing operations on site. Crane Co. ceased all on-

site operations in the 1980s, and sold all but 16 acres to various parties. Prior to 1996, Crane demolished the original 12 factory buildings, leaving only the buildings' slab foundations on-site. In December 2003, Crane Co. sold the Site to Indian Orchard Property Consultants, LLC (IOPC). In October 2005, Goodwin Realty, LLC (Goodwin) purchased the Site from IOPC. In May of 2014, the City of Springfield acquired the property through a municipal tax taking. The City of the Springfield is the current owner of the property.

#### **1.1.2.1 Location**

The Site is located on approximately 16 acres of commercial property in a residential neighborhood of Indian Orchard, Hampden County, Massachusetts. The Site boundaries consist of:

- East – Moxon Street and a residential neighborhood;
- South – Goodwin Street and a solar power station;
- West – Pinevale Street and a residential neighborhood; and
- North – Industrial property owned by City of Springfield.

#### **1.1.2.2 Description of Threat**

The hazardous substance is asbestos, primarily asbestos-containing debris. Asbestos minerals fall into two classes, serpentine and amphibole. EPA and OTO sampling results indicate the presence of chrysotile (serpentine class) asbestos in on-site debris and surface soil. Chrysotile asbestos is the predominant type of asbestos used commercially.

Asbestos poses health risks when people breathe fibers present in the air. When inhaled in significant quantities, asbestos fibers can cause asbestosis (a scarring of the lungs, which makes breathing difficult), mesothelioma (a rare cancer of the lining of the chest or abdominal cavity) and lung cancer.

#### **1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results**

On March 7, 2011, Massachusetts Department of Environmental Protection (MassDEP) Western Regional Office requested assistance from the EPA Region I Emergency Planning and Response Branch (EPRB) to investigate the Former Chapman Valve Site (Site) and determine the extent of asbestos contamination in on-site soil and debris piles.

The 2011 EPA investigation consisted of reviewing existing data in the Site file and a Site Investigation (SI) of the 16-acre property using the Framework for Investigating Asbestos-Contaminated Superfund Sites (OSWER Directive 9200.0-68 September 2008). The SI results confirmed the presence of ACM in several debris piles located in the central portion of the Site and trace levels of asbestos fibers in surface soils at three isolated locations on-site.

In June of 2015, EPA signed an Action Memorandum to conduct a fund-lead time-critical removal action. On August 17, 2015, EPA initiated a time-critical removal action at the Site.

## **2. Current Activities**

### **2.1 Operations Section**

#### **2.1.1 Narrative**

The EPA Time-Critical Removal action at the Former Chapman Valve Site consisted of excavating asbestos containing debris located in three (3) piles and five (5) surface areas; and removed asbestos containing soils from four (4) surface soil grids. The excavated debris and soils were disposed off-site at an EPA approved disposal facility. EPA conducted confirmation sampling to ensure all asbestos was removed from the site.

#### **2.1.2 Response Actions to Date**

EPA, START and ERRS mobilized to the Site on August 17, 2015 to establish work zones, develop the staging area and prepare the Site for excavation. On August 24, EPA began excavating the debris piles, surface areas and surface soil grids. EPA and ERRS used water, supplied by the City of Springfield, to keep all debris and soil wet while handling to ensure no migration of fibers. START collected confirmation samples from the excavated areas and delivered the samples to EPA's New England

Regional Laboratory (NERL) for polarized light microscopy (PLM) analysis.

EPA completed all planned excavation on September 2, 2015 and reviewed the Site with representatives from Mass DEP Western Regional Office to confirm completion of excavation. NERL analytical results from sampling were all "non-detect", confirming completion of excavation at the Site.

EPA excavated approximately 2500 tons of soil and debris. The excavated material was moved to a staging area located near the gate at the intersection of Pinevale Street and Goodwin Street. The excavated material was covered, while ERRS set up transportation and disposal (T&D). EPA demobilized from the Site on September 2, 2015, pending set up of T&D.

EPA returned to the Site on October 26, 2015 to complete the transportation and disposal of the excavated asbestos-containing debris and soil. EPA disposed of approximately 1000 tons of "non-friable" asbestos material during the period of October 26 through November 5, 2015. EPA transported the material to the Seneca Meadows disposal facility in Waterloo, New York.

### 2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

EPA conducted this project as a Fund Lead project.

### 2.1.4 Progress Metrics

<i><b>Waste Stream</b></i>	<i><b>Medium</b></i>	<i><b>Quantity</b></i>	<i><b>Manifest #</b></i>	<i><b>Treatment</b></i>	<i><b>Disposal</b></i>
Asbestos	Soil and Debris	32.44 tons	No. 1095 FC-001	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	36.47 tons	No. 1094 FC-002	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	35.97 tons	No. 1092 FC-004	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	37.95 tons	No. 1091 FC-005	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	33.85 tons	No. 1093 FC-003	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	34.14 tons	No. 1090 FC-006	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	31.04 tons	No. 1087 FC-009	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	33.26 tons	No. 1088 FC-008	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	38.36 tons	No. 1079 FC-010	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	36.28 tons	No. 1086 FC-011	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	35.03 tons	No. 1089 FC 007	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	38.84 tons	No. 1085 FC-012	NA	Seneca Meadows, NY

Asbestos	Soil and Debris	34.99 tons	No. 1082 FC-013	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	32.84 tons	No. 1081 FC-014	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	31.06 tons	No. 1080 FC-015	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	37.62 tons	No. 1078 FC-017	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	31.64 tons	No. 1084 FC-016	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	36.98 tons	No. 1078 FC-018	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	33.68 tons	No. 1078 FC-021	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	38.00 tons	No. 1078 FC-020	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	36.22 tons	No. 1078 FC-019	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	31.10 tons	No. 1078 FC-022	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	35.42 tons	No. 1078 FC-024	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	32.02 tons	No. 1078 FC-023	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	32.32 tons	No. 1078 FC-026	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	32.47 tons	No. 1078 FC-025	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	31.88 tons	No. 1078 FC-027	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	36.04 tons	No. 1078 FC-028	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	38.85 tons	No. 1078 FC-029	NA	Seneca Meadows, NY
Asbestos	Soil and Debris	11.76 tons	No. 1078 FC-030	NA	Seneca Meadows, NY

## 2.2 Planning Section

### 2.2.1 Anticipated Activities

EPA Demobilized from the Site on November 4, 2015. No future activities planned.

#### 2.2.1.1 Planned Response Activities

None

#### 2.2.1.2 Next Steps

EPA conducted a final site walk with Mass DEP on November 3, 2015. EPA conducted a final site walk with the City of Springfield in November of 2015. EPA will provide a copy of the Final After Action Report to Mass DEP and the City of Springfield to document activities during this removal action.

### 2.2.2 Issues

There are no issues pending at this Site.

## 2.3 Logistics Section

There are no Logistics issues at the Site.

## 2.4 Finance Section

### 2.4.1 Narrative

EPA completed this time-critical removal action within the original Action Memorandum ERRS budget of \$280,000. Due to an uncertainty over the cost to complete T&D at the Site, EPA signed an Action Memorandum Amendment on October 6, 2015 to increase the ERRS project ceiling to \$380,000 dollars. This action was a precautionary measure to ensure adequate funding was available during the T&D process.

The original START budget was \$50,000 in the Action Memorandum. START work at the Chapman Valve Site will marginally exceed the original estimated cost due to the air monitoring and the confirmation sampling. There is adequate money remaining in the ERRS budget and the extramural contingency to cover the additional START costs.

### Estimated Costs \*

	Budgeted	Total To Date	Remaining	% Remaining
<b>Extramural Costs</b>				
ERRS - Cleanup Contractor	\$380,000.00	\$235,893.00	\$144,107.00	37.92%
TAT/START	\$50,000.00	\$49,305.00	\$695.00	1.39%
<b>Intramural Costs</b>				
<b>Total Site Costs</b>	<b>\$430,000.00</b>	<b>\$285,198.00</b>	<b>\$144,802.00</b>	<b>33.67%</b>

\* 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**

### **2.5.1 Safety Officer**

START prepared the Site HASP for review and approval by ERRS and EPA.

EPA set up asbestos and particulate monitoring onsite surrounding excavation and worn by ERRS workers to ensure asbestos fibers were not migrating during asbestos management. Analytical data from both the onsite and the worker monitoring did not indicate migration of fibers during asbestos management activities.

### **2.5.2 Liaison Officer**

### **2.5.3 Information Officer**

EPA has developed a fact sheet for this Site in English and Spanish.

EPA attended a meeting on April 8 in Indian Orchard to present information and answer questions about the project.

## **3. Participating Entities**

### **3.1 Unified Command**

U.S. EPA  
Mass DEP  
City of Springfield

### **3.2 Cooperating Agencies**

## **4. Personnel On Site**

EPA - 1 - OSC John McKeown (Alternate is Allen Jarrell)  
START - 1 - Weston Solutions  
ERRS - 5 - Environmental Restoration

## **5. Definition of Terms**

No information available at this time.

## **6. Additional sources of information**

### **6.1 Internet location of additional information/report**

[www.epaosc.org/formerchapmanvalve](http://www.epaosc.org/formerchapmanvalve)

### **6.2 Reporting Schedule**

Next POLREP (final) will be produce upon completion of T&D.

## **7. Situational Reference Materials**

No information available at this time.