

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
National Fireworks Operable Unit 2 - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region IV

Subject: POLREP #4
Removal / Excavation of contaminated soil from metal shop waste burial pit
National Fireworks Operable Unit 2
A4EQ
Cordova, TN
Latitude: 35.1620360 Longitude: -89.7460040

To:
From: Keriema Newman, RPM
Date: 1/31/2011
Reporting Period: 1/18/2011 - 1/20/2011

1. Introduction

1.1 Background

Site Number:	A4EQ	Contract Number:	
D.O. Number:		Action Memo Date:	6/7/2010
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	PRP	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	2
Mobilization Date:	12/7/2010	Start Date:	1/18/2011
Demob Date:		Completion Date:	1/20/2011
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

Time Critical Removal Action

1.1.2 Site Description

The former National Fireworks Site is an active industrial park located off Macon Road in Cordova, Shelby County, Tennessee. The National Fireworks site is bounded on the north of Macon Road, on the east by Grays Creek, on the south by forested property, on the west by a Tennessee Valley Authority (TVA) easement, and on the northwest by railroad tracks. The geographic coordinates at the western entrance to the NF site are latitude 35° 09' 27.06" north and longitude 89° 45' 41.63" west. The National Fireworks site is located east of Memphis, Tennessee, and is zoned for industrial uses. The National Fireworks parcel is surrounded by land that is zoned for industrial, residential, agricultural, and commercial uses.

1.1.2.1 Location

Cordova, Tennessee

1.1.2.2 Description of Threat

As a result of a geophysical survey conducted during the remedial investigation, Anomaly B1 was discovered. A test pit excavation was conducted in order to further define the area of contamination. The trenching revealed bits of metal and stainless steel pipe, and the excavated soil had a strong odor. Two soil samples were collected. Hazardous substances were present in the soil above regional screening values in the suspected metal shop waste area that exceed soil regional screening levels that are protective of groundwater. The soil regional screening levels that are protective of groundwater are derived from fate and transport mechanisms that are dependent on 1) the release of contaminant in soil leachate and 2) transport of the contaminant through the underlying soil and an aquifer to a receptor well. Therefore, subsurface soil concentrations exist at levels that may potentially migrate vertically and pose a threat to groundwater.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

The PRP's contractor ENSAFE was onsite to oversee the excavation of contaminated soil from the metal shop area. ENSAFE's subcontractor was OCS (Ops Construction Service). OCS is a subsidiary of ENSAFE. OCS used R&L Trucking service to haul the contaminated soil to the Waste Management Municipal Landfill in Tunica, MS. OCS had the following personnel onsite performing the excation: a trackhoe operator, a site manager, and two others overseeing the safety excavation and directing the truck drivers and trackhoe while the contaminated soil was being loaded onto the dump trucks. The site manager for ENSAFE managing the excavation was Jason Broughton. Daily safety meetings were conducted by the site manager from OCS, Darrell Berger. Darrell was also coordinating the drivers from the site to the landfill, the manifests, and the transportation of the backfill material. The entire excavation of contaminated soil occurred on Tuesday and Wednesday. After the entire area was excavated, one sample was collected in the middle base of the excavation at approximatel 13' below ground surface for site related contaminants. Backfill material was transported onsite Wednesday. The south side of the pit was backfilled first, moving north using a bulldozer. Most of the pit was backfilled on Wednesday. Final surface work was completed on Thursday morning. The excavated area will be seeded when the excavation is completed in the adjacent pin flare pit.

2.1.2 Response Actions to Date

During the excavation, a total of 44 truckloads of contaminated soil was excavated and transported offsite to the Tunica Facility (approximately 744.5 tons). A total of 33 truckloads of backfill material were transported onsite and used as backfill material.

2.2 Planning Section

2.3 Logistics Section

No information available at this time.

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety Officer

Darrell Berger from OCS was the safety officer. Security Signals safety officer is Phil Lender.

2.6 Liaison Officer

2.7 Information Officer

2.7.1 Public Information Officer

2.7.2 Community Involvement Coordinator

3. Participating Entities

3.1 Unified Command

3.2 Cooperating Agencies

Jerrel Moore from Tennessee Department of Envrionment and Conservation visited the site on Tuesday and Wednesday.

4. Personnel On Site

No information available at this time.

5. Definition of Terms

No information available at this time.

6. Additional sources of information

No information available at this time.

7. Situational Reference Materials

No information available at this time.