

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Atlantic Phosphate Works - Removal Polrep
Initial and Final Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region IV

Subject: POLREP #1
Final
Atlantic Phosphate Works
A4G3
North Charleston, SC
Latitude: 32.8269519 Longitude: -79.9617577

To:
From: McKenzie Mallary, RPM
Date: 8/25/2011
Reporting Period:

1. Introduction

1.1 Background

Site Number:	A4G3	Contract Number:	
D.O. Number:		Action Memo Date:	4/1/2010
Response Authority:	CERCLA	Response Type:	Non-Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:		Start Date:	
Demob Date:	12/17/2010	Completion Date:	
CERCLIS ID:	SC0002332815	RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

1.1.2 Site Description

1.1.2.1 Location

The Atlantic Phosphate Works Site is a Non-NPL site located on Hagood Street in North Charleston, South Carolina. The Site is bounded to the north by the Stono Phosphate Works Site, and to the south by the Columbia Nitrogen Site. The predominant structures that are located on-Site today are the gas turbine generator buildings and the large aboveground storage tanks associated with the Hagood Steam Plant, currently operated by South Carolina Gas and Electric (SCE&G).

Phosphate fertilizer manufacturing occurred at the Site from 1900 to 1943. Environmental impacts associated with the former phosphate manufacturing include lead and arsenic contamination, as well as low pH conditions, in soil, sediment, and groundwater. By way of a corporate merger in 1999, the Exxon Mobil Corporation is successor in interest to former VCC phosphate-based fertilizer manufacturing activities at the Site.

1.1.2.2 Description of Threat

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

2. Current Activities

2.1 Operations Section

No information available at this time.

2.2 Planning Section

No information available at this time.

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

No information available at this time.

3. Participating Entities

No information available at this time.

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

6.1 Internet location of additional information/report

The first phase of a Non-Time-Critical Removal Action (NTCRA) was initiated at the Site by SCE&G and their consultant Management and Technical Resources, Inc. (MTR) in December 2008. Phase I involved the excavation, treatment, and off-site disposal of an estimated 15,000 cubic yards of contaminated soil located within the footprint of an area designated for new turbines. SCE&G conducted the Phase I NTCRA (also referred to as the Turbine Project Area Removal Action or TPARA) since they own and operate the Hagood Power Generating Station on-site. The Phase 1 was completed in March 2009.

Phase II of the NTCRA was initiated by ExxonMobil and their consultant ARCADIS in July 2010, and involved the excavation, treatment, and off-site disposal of over 50,000 cubic yards of contaminated soil and sediment. ExxonMobil restored all areas disturbed by the Phase II NTCRA (upland areas and wetlands) to their pre-removal state to the maximum extent practicable. A chemical amendment was mixed with the backfill and placed below the water table in the soil excavation areas to help reduce the levels of lead and arsenic in groundwater. EPA met with representatives from SCDHEC, ExxonMobil, and their consultants on December 9, 2010, to conduct the Final Inspection for the NTCRA. Demobilization was completed on December 17, 2010.

As part of the Post-Removal Site Controls, groundwater monitoring will continue at the Site in order to determine the effectiveness of the NTCRA. Lead and arsenic levels in groundwater are expected to decline within 5 to 10 years. Future land use restrictions will be placed on the property deed to prohibit anyone from using the impacted groundwater for drinking water purposes.

6.2 Reporting Schedule

7. Situational Reference Materials

No information available at this time.