

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Peacock Pesticides - Removal Polrep
Final Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region IV

Subject: POLREP #2
Final POLREP
Peacock Pesticides
B499
Cleveland, MS
Latitude: 33.7330750 Longitude: -90.6397500

To:
From: Matthew J. Huyser, OSC
Date: 1/5/2011
Reporting Period: 6/5/2010-9-23/2010

1. Introduction

1.1 Background

Site Number:	B499	Contract Number:	TTEMI-05-001-0128
D.O. Number:		Action Memo Date:	
Response Authority:	CERCLA	Response Type:	Emergency
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	6/3/2010	Start Date:	6/4/2010
Demob Date:	6/4/2010	Completion Date:	9/23/2010
CERCLIS ID:	MSN000410561	RCRIS ID:	
ERNS No.:		State Notification:	6/3/2010
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

Emergency Response

1.1.2 Site Description

The site is a semi-rural residence where a barren spot believed, to be the location of a previous agricultural chemical storage shed, sits approximately 80ft from the home. The property was previously a 200 acre cotton farm and the barren spot is the location of a barn and shed structure that no longer exists.

1.1.2.1 Location

122 Highway 8, Cleveland, Sunflower County, Mississippi

1.1.2.2 Description of Threat

The site is a semi-rural residence where a small area, that is devoid of vegetation and believed to be the location of a previous agricultural chemical storage shed, sits approximately 80ft from the home.

The resident complains of reoccurring rashes after attempting to work on the soil in that area. The shed stored various chemicals including: Treflan, Methyl Parathion, DDT, and Sancore.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

A composite surface soil sample (0-12" bgs) was collected from the impacted area, and a sediment sample was collected from the nearest runoff ditch approximately 100ft on the eastern property boundary. The samples were analyzed for, among other things, pesticides, herbicides, and organo-phosphates.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

Preliminary laboratory data was returned on 6/23/2010. Although the quality control review had not yet been completed, preliminary analytical data did not suggest the existence of gross contamination throughout the site. OSC Huyser contacted the resident and property owner by telephone upon receipt of the preliminary data package to report what had been observed and that further review of the information was pending. The site final report with was completed by START on 9/16/2010 and a hardcopy of the report (with data summaries but without several hundred pages of laboratory outputs) was mailed to the resident on 9/23/2010, along with a letter stating that

while the levels of some constituents exceeded EPA Regional Screening Levels (RSLs), none of the levels exceeds EPA Regional Removal Action Levels (RALs) and no removal action was planned. The letter also stated that the data would be forwarded to EPA R4 Technical Services Section (TSS) for toxicological review.

On 11/1/2010, R4 TSS submitted a memorandum to OSC Huyser where they confirmed that "None of the contaminant concentrations exceed their respective RALs for residential soil." However, the memorandum pointed out that the analysis for Toxaphene should have included "a method for quantifying the environmentally persistent congeners associated with weathered toxaphene" and that the analysis used may have underestimated the true concentration of toxaphene in the sample. The consequences of this suggestion were reviewed at-length with the observations and other data that were collected at the Site. It was finally determined that the impacted area was insufficiently sized and positioned at a location away from the residence that it was not representative of the overall residential exposure. Moreover, the levels of Toxaphene measured with the analysis that was used were neither consistent across the impacted area, nor did they show signs of migration in the runoff pathway. As a result, OSC Huyser determined that the site did not meet the criteria for an Emergency Response or Time-Critical Removal. These issues were communicated to the homeowner and a copy of the TSS memorandum was mailed to the residence, along with suggestions on adequate precautionary measures that could be taken on the nonvegetated area, such as spreading crush run or gravel on the area to serve as cover material.

2.1.2 Response Actions to Date

Analyte	EPA Sep. 2008 RAL (Removal Action Level)	EPA May 2010 RSL (Regional Screening Level)	Background Levels (Off-Site)	Former Barn		Ditch
	Residential Soil	Residential Soil	PP-SS-03	PP-SS-01	PP-SS-01D	PP-SD-02
Pesticides (all units are in µg/kg)						
4,4'-DDT	172,000	1,700	U	580	2,400 p	U
alpha-BHC ¹	7,710	77	U	69	85 J	U
beta-BHC ²	27,000	270	U	230	520	U
Dieldrin	3,030	30	40	18 J	35 Jp	8.9
Toxaphene	44,100	440	U	5,800	21,000	U
Metals (all units are in mg/kg)						
Arsenic	38.9	0.39	4.3	11	12	5.3
Vanadium	4,140	5.5	27	39	44	39

¹ alpha-BHC is also known as alpha-Hexachlorocyclohexane

² beta-BHC is also known as beta-Hexachlorocyclohexane

U – the analyte was analyzed for but was not detected

J – concentration is an approximate value

p – instrument operating outside of ideal parameters

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

The homeowner was notified of his potential liability, was issued a notice of federal interest letter, and signed an access agreement.

2.1.4 Progress Metrics

N/A

2.2 Planning Section

2.2.1 Anticipated Activities

No further activities are anticipated

2.2.1.1 Planned Response Activities

- Document site conditions via logbook, digital images, diagrams etc; (COMPLETE)
- Perform air monitoring as necessary; (COMPLETE)
- Collect samples for analysis, laboratory procurement may be necessary; (COMPLETE)
- Perform site stabilization or cleanup activities based on sample results. (NONE)

2.2.1.2 Next Steps

The resident was informed of all findings at the site and advised that on precautionary measures that could be taken on the nonvegetated area, such as spreading crush run or gravel on the area to serve as cover material.

2.2.2 Issues

There are no further issues to address

2.3 Logistics Section

N/A

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety Officer

N/A

2.6 Liaison Officer

N/A

2.7 Information Officer

N/A

2.7.1 Public Information Officer

N/A

2.7.2 Community Involvement Coordinator

N/A

3. Participating Entities

3.1 Unified Command

N/A

3.2 Cooperating Agencies

EPA

MSDEQ

4. Personnel On Site

EPA (1)

MSDEQ (1)

START (1)

5. Definition of Terms

N/A

6. Additional sources of information

6.1 Internet location of additional information/report

N/A

6.2 Reporting Schedule

N/A

7. Situational Reference Materials

N/A