

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION/SITUATION REPORT  
Emmell Septic Landfill - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region II

**Subject:** POLREP #6  
Final Polrep - RV4  
Emmell Septic Landfill  
02JW  
Galloway Township, NJ  
Latitude: 39.5290318 Longitude: -74.5739963

**To:**  
**From:** Laura Stanley, OSC  
**Date:** 9/13/2010  
**Reporting Period:** 6/7/2010 - 9/10/2010

**1. Introduction**

**1.1 Background**

<b>Site Number:</b>	02JW	<b>Contract Number:</b>	EP-S2-10-01
<b>D.O. Number:</b>	0002	<b>Action Memo Date:</b>	5/20/2010
<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>	NPL	<b>Operable Unit:</b>	
<b>Mobilization Date:</b>	8/9/2010	<b>Start Date:</b>	6/7/2010
<b>Demob Date:</b>	9/11/2010	<b>Completion Date:</b>	9/10/2010
<b>CERCLIS ID:</b>	NJD980772727	<b>RCRIS ID:</b>	
<b>ERNS No.:</b>		<b>State Notification:</b>	NJDEP Notified
<b>FPN#:</b>		<b>Reimbursable Account #:</b>	

**1.1.1 Incident Category**

CERCLA Incident category: Inactive Waste Management Facility

185855



## **1.1.2 Site Description**

### **1.1.2.1 Location**

The Site is located at 128 Zurich Avenue in a rural area of Galloway Township, Atlantic County, New Jersey. The former waste disposal facility is identified on the Township's tax map as Block 650, Lots 7 and 9, and covers approximately 38 acres. The Site, which is partially wooded, is surrounded by heavily wooded areas and residential properties. It is estimated that approximately 100 persons live within one-half mile of the Site. The residences on West Moss Mill Road being addressed in this action are located approximately 1 mile northeast of the Site.

### **1.1.2.2 Description of Threat**

The potable wells on West Moss Mill Road are threatened to be contaminated with volatile organic compounds emanating from the Emmell Septic Site. Groundwater sample data collected in September 2009 in the vicinity of West Moss Mill Road indicated that levels of site-related contaminants are present in the groundwater at levels which significantly exceed the applicable removal action levels. Specifically, the results exceeded the Removal Action Level (RAL) for vinyl chloride and exceeds the maximum contaminant level (MCL) for 5 other volatile organic compounds.

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

Groundwater modeling of the contaminant plume, as presented in the April 11, 2008 RI/FS report, indicates widespread groundwater contamination around the Site. The contamination is confined to within 200 of the surface and is spreading east from the Site. Other impacted homes were previously connected to a public water supply by EPA.

## **2. Current Activities**

### **2.1 Operations Section**

#### **2.1.1 Narrative**

The action memorandum was approved on May 20, 2010. The scope of work under this action is to complete the installation of six double cased residential wells at a depth of approximately 300 feet below ground surface and to decommission the currently used potable wells, if accessible. The ERRS contractor initiated response activities on June 7, 2010. The scope of work under this action was completed on September 10, 2010. No further actions are planned.

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

On July 19, 2010 EPA and the ERRS contractor met at the Site to review the planned scope of work for this action. A bid walk with the ERRS sub-contractor was also performed at this time.

On July 27, 2010 ERRS awarded the subcontract, with OSC consent, for the potable well installations.

On August 6, 2010 EPA and the ERRS contractor met at the Site to review the scope of work

and discuss details pertaining to the drilling operations set to begin August 11, 2010.

On August 11, 2010 drilling operations began at the first residence. 8" casing was installed to ~220 feet below ground surface and 4" inner casing was installed to ~310 feet below ground surface. Drilling at the first home was completed on August 12. (Plumbing and service lines were not installed at this time). On August 13 drilling operations began at the second residence. The 8" casing was installed to ~220 feet below ground surface.

On August 16, 2010 drilling operations were completed at the second residence. 8" casing was installed to ~200 feet below ground surface and 4" inner casing was installed to ~300 feet below ground surface.

A submersible pump, pressure tank, softener and all piping was installed at the first and second residences on August 16 and August 17, respectively.

On August 23, 2010 drilling operations began at the third residence. The double cased well was complete on August 24. A submersible pump, pressure tank, softener and all associated piping were installed on August 25. The 4" well was installed to ~300 feet below ground surface, with an 8" casing installed to ~200 feet below ground surface.

Drilling operations began at the fourth residence on August 25, 2010 and were completed on August 26. A submersible pump, pressure tank, softener and all other associated piping were installed on August 27. The 4" well was installed to ~300 feet below ground surface, with an 8" casing installed to ~200 feet below ground surface.

On August 30, 2010 drilling operations began at the fifth residence. The double cased well was complete on August 31. A submersible pump, pressure tank, softener and all associated piping were installed on September 1. The 4" well was installed to ~300 feet below ground surface, with an 8" casing installed to ~200 feet below ground surface into a clay layer.

On September 1, 2010 drilling operations began at the sixth and final residence. The double cased well was complete on September 2. A submersible pump, pressure tank, softener and all associated piping were installed on September 3. The 4" well was installed to ~300 feet below ground surface, with an 8" casing installed to ~200 feet below ground surface into a clay layer.

On September 2, 2010 five of the six formerly used potable wells were decommissioned in accordance with NJDEP regulations. The sixth well was not decommissioned at the request of the property owner for irrigation purposes only. A 'change of use' permit from NJDEP will document that the former well is not for potable use.

Property restoration occurred from September 7, 2010 through September 10, 2010. The drill cuttings generated by the well installations were shipped off site for disposal on September 9 & 10, 2010.

All field activities for this action were complete on September 10, 2010.

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

The NJRB has investigated the Site and, to date, no viable PRPs have been identified. EPA will continue the PRP search in an effort to identify a viable PRP.

### 2.1.4 Progress Metrics

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity (est.)</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal Facility</i>
Drill Cuttings (soil & clay)	Solid	18 Tons	090910-001	Landfill application	Atlantic County Utilities Authority Landfill
Drill Cuttings (soil & clay)	Solid	18 Tons	090910-002	Landfill application	Atlantic County Utilities Authority Landfill
Drill Cuttings (soil & clay)	Solid	18 Tons	091010-003	Landfill application	Atlantic County Utilities Authority Landfill
Drill Cuttings (soil & clay)	Soild	18 Tons	091010-004	Landfill application	Atlantic County Utilities Authority Landfill

## 2.2 Planning Section

### 2.2.1 Anticipated Activities

No futher action is planned for this removal.

### 2.2.2 Issues

No key issues to report at this time.

## 2.3 Logistics Section

N/A

## 2.4 Finance Section

The cost tracking listed in this POLREP is only for the RV4 action. Previous budgets for this Site are not included.

**2.5 Safety Officer**

N/A

**2.6 Liaison Officer**

N/A

**2.7 Information Officer****2.7.1 Public Information Officer****2.7.2 Community Involvement Coordinator**

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**3. Participating Entities****3.1 Unified Command****3.2 Cooperating and Assisting Agencies****4. Personnel On Site**

EPA, RTS and ERRS have all demobilized from the Site.

**5. Definition of Terms****6. Additional sources of information****6.1 Internet location of additional information/reports****6.2 Reporting Schedule**

No further reports are to be delivered for this action.

**7. Situational Reference Materials**