

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION/SITUATION REPORT  
Lewis Run Borough VOC - Removal Polrep  
Initial Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region III

**Subject:** POLREP #1  
POLREP #1 - CERCLA Assessment  
Lewis Run Borough VOC  
A3QZ  
Lewis Run Borough, PA  
Latitude: 41.8726624 Longitude: -78.6562189

**To:**  
**From:** Jack Downie, OSC  
**Date:** 3/2/2011  
**Reporting Period:** 11/15/10 to 3/2/11

## 1. Introduction

### 1.1 Background

<b>Site Number:</b>	A3QZ	<b>Contract Number:</b>	
<b>D.O. Number:</b>		<b>Action Memo Date:</b>	
<b>Response Authority:</b>	CERCLA	<b>Response Type:</b>	
<b>Response Lead:</b>	EPA	<b>Incident Category:</b>	Removal Assessment
<b>NPL Status:</b>	Non NPL	<b>Operable Unit:</b>	
<b>Mobilization Date:</b>	11/17/2010	<b>Start Date:</b>	11/15/2010
<b>Demob Date:</b>		<b>Completion Date:</b>	
<b>CERCLIS ID:</b>		<b>RCRIS ID:</b>	
<b>ERNS No.:</b>		<b>State Notification:</b>	Pennsylvania
<b>FPN#:</b>		<b>Reimbursable Account #:</b>	

#### 1.1.1 Incident Category: CERCLA Assessment - Removal Site Evaluation

**1.1.2 Site Description:** Lewis Run Borough is a small community just South of Bradford, PA. The shallow ground water under the town has been contaminated with volatile organic compounds (VOC's) primarily TCE and PCE up to 23,000 and 75,000 ug/l, respectively. The PADEP HSCA program ordered the shut down of the town's drinking water well and paid for a water line extension from the Bradford, PA Water Authority. During October 2010, an NRC Report was filed by a Lewis Run Borough consultant who indicated that the groundwater contamination may present potential risk to human health and the environment. PADEP requested EPA assistance in defining the potential for vapor intrusion resulting from the groundwater contamination. A sampling strategy to define the current condition of subsurface contamination and presence of contaminants in soil gas and indoor vapor is being coordinated in conjunction with PADEP.

**1.1.2.1 Location:** Lewis Run, McKean County, Pennsylvania

**1.1.2.2 Description of Threat:** VOC's (TCE, PCE) in groundwater. Vapor intrusion.

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

## 2. Current Activities

### 2.1 Operations Section

#### 2.1.1 Narrative

On November 11, 2010, OSC Downie, PADEP (Jordan and Halterman), Council President for Lewis Run Borough (Langianese), and START met at the Borough's Hall to discuss the sampling and analysis needs for the Borough of Lewis Run. It was determined that sampling of existing monitoring wells was needed to define current concentrations of tetrachloroethylene (PCE) and trichloroethylene (TCE) in the groundwater. EPA would conduct soil gas sampling at the community baseball field and the surrounding area. Air sampling would be conducted in the Borough's Hall to determine if there was a vapor intrusion hazard in that building.

On 12/8/10, OSC and START arrived at the site and spoke with the Borough's Maintenance department representative about the location of the sewer and utilities in the proposed sampling areas. The weather during the day's activities was overcast and snowing with temperatures in mid-upper teens and approximately 2-3 feet of snow on the ground. For the indoor air sampling activities, two locations were chosen within the Borough Hall; one from the conference room and one from the main council meeting room. Sample IAAS01 and IAAS02 (duplicate) were collected from the floor of the conference room over an approximate 8 hour time period. Sample IAAS03 was collected from the floor of the meeting room over a 30 minute time period.

START attempted to collect soil gas samples from three separate locations in the ball field. The three holes were located at the following locations: Hole 1 - between the pitcher's mound and home plate, Hole 2 - right field, and Hole 3 - left field. At Hole 1, START used a slam bar to open a hole to a depth of 4 feet. At Hole 2, START drove the slam bar to a depth of 3 foot. At Hole 3, START reduced the depth of the hole to 2 feet. Sample collection failed at all three locations due to saturated soils and the low temperatures affecting the pliability of the clay used to seal out ambient air from the sample hole.

On 12/9/10, indoor air samples were shipped to the lab for organic analysis by Modified EPA Method TO-15, GC/MS Full Scan.

On 12/26/10, preliminary analytical results were received from the laboratory. Preliminary results indicated that PCE and TCE were not detected in the air samples. Trace amounts of other volatiles were detected in concentrations less than 1.5 parts per billion by volume (ppbv) and are being evaluated for their relationship to the groundwater contamination.

During late January and early February 2011, PADEP conducted groundwater sampling at 24 monitoring wells for volatile organic analysis. The sampling method employed was Passive Diffusion Bags (PDBs). The objective was to obtain current data on groundwater contamination.

EPA conducted low-flow sampling at 20% of the wells sampled by PADEP in order to evaluate the effectiveness of the PDB sampling method. On 2/7/2011, EPA and START arrived onsite and scoped out the locations of the monitoring wells chosen for sampling by low flow method. During the sampling event, the weather was partly sunny with snow flurries off and on, moderate winds up to 20 mph, temperatures ranged from the single digits to low teens, and there was approximately 1 foot of snow on the ground. Five groundwater samples plus a duplicate were collected from monitoring wells: MW-2B, MW-3B, MW-4B, MW-9B, and MW-10B.

On 2/10/2011, six groundwater samples were shipped to a CLP laboratory for volatile organic analysis with a 30-day turn-around time (TAT) for validated analytical data.

#### 2.1.2 Response Actions to Date

November 2010 - Met with Lewis Borough's Council President to discuss sampling needs and plan of action.

December 2010 - Indoor air sampling in Town Hall building.

February 2011 - Groundwater sampling of select monitoring wells.

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

#### 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>

## 2.2 Planning Section

### 2.2.1 Anticipated Activities

OSC and PADEP to discuss analytical results.

#### 2.2.1.1 Planned Response Activities

Conduct additional sampling as needed.

#### 2.2.1.2 Next Steps

OSC awaiting validated analytical results.

#### 2.2.2 Issues

## 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**

### **3.1 Unified Command**

### **3.2 Cooperating Agencies**

EPA Region III

PADEP

Lewis Run Borough

## **4. Personnel On Site**

OSC (1)

PADEP (up to 2)

START (up to 2)

## **5. Definition of Terms**

EPA US Environmental Protection Agency

OSC On-Scene Coordinator

PADEP Pennsylvania Department of Environmental Protection

PDB Passive diffusion bag

PCE Tetrachloroethylene

START Superfund Technical Assessment and Response Team

TAT Turn-Around-Time

TCE Trichloroethylene

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

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

Remedial Investigation Report, Lewis Run Municipal Well Site, dated July 2004.

### **6.2 Reporting Schedule**

## **7. Situational Reference Materials**

No information available at this time.