U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
PCE Chestnut RV001 - Removal Polrep

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**Region VII**

**Subject:** **POLREP #5**
**Progress (groundwater sampling)**
**PCE Chestnut RV001**
**A7B4**
**Atlantic, IA**
**Latitude: 41.4036007 Longitude: -95.0138776**

**To:** Susan Fisher, AERR/RROP

**From:** Susan Fisher, OSC
**Date:** 10/9/2015
**Reporting Period:** 10/5 to 10/11/15

## 1. Introduction

### 1.1 Background

| | | | |
|---|---|---|---|
| **Site Number:** | A7B4 | **Contract Number:** | |
| **D.O. Number:** | | **Action Memo Date:** | 5/18/2015 |
| **Response Authority:** | CERCLA | **Response Type:** | Time-Critical |
| **Response Lead:** | EPA | **Incident Category:** | Removal Action |
| **NPL Status:** | Non NPL | **Operable Unit:** | |
| **Mobilization Date:** | 6/4/2015 | **Start Date:** | 6/4/2015 |
| **Demob Date:** | | **Completion Date:** | |
| **CERCLIS ID:** | IAN000703467 | **RCRIS ID:** | |
| **ERNS No.:** | | **State Notification:** | |
| **FPN#:** | | **Reimbursable Account #:** | |

#### 1.1.1 Incident Category

Inactive Production Facility

## 2. Current Activities

### 2.1 Operations Section

#### 2.0 Current Activities

#### 2.1 Operations

#### 2.1.1 Narrative

During a vapor intrusion assessment conducted in March 2015 by the EPA for the PCE Former Dry Cleaners Site, the EPA discovered another former dry cleaner site (PCE Chestnut Street) to the west of the PCE Former Dry Cleaners Site. The levels of PCE vapors found in buildings at the Site present a significant health threat due to inhalation hazards.

##### 2.1.1.1 Current situation

Groundwater samples were collected to identify source areas of contamination contributing to the elevated levels of PCE previously detected in subslab soil gas and indoor air, and to define the extent of PCE contamination in groundwater.

Groundwater samples were collected from approximately 50 Geoprobe® temporary. Temporary well locations were selected to investigate potential contaminant source areas, as well as to delineate the extent of groundwater contamination. The EPA mobile laboratory was on site to analyze groundwater samples and provide real-time results in order to select additional locations to sample based on the analytical results. Duplicate samples were also collected to send to the EPA Region 7 laboratory. Groundwater was found between 35 and 65 feet bgs.

Groundwater samples were collected within discrete depth intervals at each temporary well location. Samples were collected within multiple depth intervals to help identify any downward contaminant migration.

A table showing sampling results can be found in the document section.

OSC Fisher also met with local real estate agents to discuss the vapor intrusion issues in downtown Atlantic.

#### 2.1.2 Response activities to date

On September 8 and 9, 2015, the EPA conducted an assessment of the two properties, with TCE vapors inside the property higher than the TCE vapors in the subslab.

13 East 4th Street

The property at 13 East 4th Street consists of three businesses on the main floor over a basement. Above the businesses are apartments that are not currently occupied. The businesses are a shoe cobbler, a barber shop, and a sign shop.

The basement has several open and closed containers of paint, varnishes and strippers from the sign company. No specific container was found with TCE as a listed ingredient. However, several containers were rusty and there were several boards and other debris hampering the ability to find all containers.

The Agency for Toxic Substances and Disease Registry (ATSDR) *Toxicological Profile for Trichloroethylene (Update),* U.S. Public Health Service, U.S. Department of Health and Human Services, Atlanta, GA 1997 states:

"Trichloroethylene is used in consumer products such as typewriter correction fluids, paint removers/strippers, adhesives, spot removers, and rug-cleaning fluids".

Therefore, the EPA will be requesting that the owner remove all containers from the basement that are no longer used. Then re-testing of the indoor air will be done to determine if there is still TCE in the indoor air that exceeds EPA Removal Action Levels.

The EPA and START located areas where groundwater sampling will be conducted in October 2015.

The EPA also met with the ERRS contractor. The ERRS contractor put out for bid four properties to install vapor mitigation systems. Three potential bidders met and conducted a walk-through of the four properties.

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

PRPs have not been identified.

#### 2.1.4 Progress Metrics

See the Documents section for a table of the progress metrics.

### 2.2 Planning Section

#### 2.2 Planning

#### 2.2.1 Anticipated activities for next reporting period

The EPA OSC is planning to conduct oversight of the installation of vapor mitigation systems in four properties. **2.2.1.1 Planned Response Activities**

#### 2.2.1.2 Next Steps

Continue to delineate the groundwater plume and locate source areas, as well as collect additional vapor intrusion samples.

#### 2.2.1.2 Issues

No issues at this time.

### 2.3 Logistics Section

No information at this time.

### 2.4 Finance Section

#### 2.4 Finance

#### 2.4.1 Narrative

“The accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.”

#### 2.4.2 Metrics

Below is a table of costs as appropriate for the specific response. Costs could be tracked against Removal

Ceiling, daily burn rate, etc.

### Estimated Costs *

| | Budgeted | Total To Date | Remaining | % Remaining |
|---|---|---|---|---|
| **Extramural Costs** | | | | |
| ERRS - Cleanup Contractor | $33,563.00 | $18,950.00 | $14,613.00 | 43.54% |
| TAT/START | $58,872.00 | $2,000.00 | $56,872.00 | 96.60% |
| **Intramural Costs** | | | | |
| USEPA - Direct | $45,456.00 | $4,000.00 | $41,456.00 | 91.20% |
| USEPA - InDirect | $143,327.00 | $10,475.00 | $132,852.00 | 92.69% |
| | | | | |
| **Total Site Costs** | $281,218.00 | $35,425.00 | $245,793.00 | 87.40% |

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

#### 2.5 Other Command Staff

No Information at this time.

## 3. Participating Entities

#### 3.0 Participating Entities

#### 3.1 Unified Command

U.S. Environmental Protection Agency

#### 3.2 Cooperating and Assisting Agencies

Iowa Department of Natural Resources
City of Atlantic, Iowa

## 4. Personnel On Site

#### 4.0 Personnel On Site and Off Site

EPA Employees
START
ERRs

## 5. Definition of Terms

#### 5.0 Definition of Terms

µg/m3 - Micrograms per cubic meter
PRP - Potential Responsible Party
ND - Non Detect
SS - Subslab
IA - Indoor Air
PCE - Tetrachloroethene
TCE - Trichloroethene
APA - Abbreviated Preliminary Assessment
OSC - On-Scene Coordinator
ATSDR - Agency for Toxic Substances and Disease Registry
IDNR – Iowa Department of Natural Resources

## 6. Additional sources of information

#### 6.0 Source of Additional Information

PCE (Tetrachloroethylene):
- A man-made chemical that is widely used for dry cleaning clothes.
- It evaporates easily into the air.
- A colorless liquid with a mild, chloroform-like odor - has a sharp, sweet odor.

TCE (Trichloroethylene):
- Used to remove grease from fabricated metal parts and in the production of some textiles.

- PCE degrades to TCE under certain circumstances.
- A colorless or blue liquid with a chloroform-like odor - has a sharp, sweet odor.

For more information about these chemicals go to:
http://water.epa.gov/drink/contaminants/basicinformation

**7. Situational Reference Materials**

**7.0 Situational Reference Material**

POLREP #5 Last Updated 3/3/2016