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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region VII

Subject: **POLREP #1**
Initial
PCE Chestnut RV001

Atlantic, IA
Latitude: 41.4036007 Longitude: -95.0138776

To:
From: Susan Fisher, OSC
Date: 7/17/2015
Reporting Period: May 11, 2015 to June 16, 2015

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

The levels of PCE vapors found in buildings at the Site present a significant health threat due to the inhalation hazards. PCE in the soil gas was found as high as 2,300,000 micrograms per cubic meter (µg/m^3) and PCE in the indoor air as high as 550 µg/m^3(Table 1). The elevated levels of PCE present an immediate human health risk and exceed the established indoor air and subslab soil gas screening and removal action levels for PCE (Table 2).

2. Current Activities

2.1 Operations Section

2.0 Current Activities

2.1 Operations

2.1.1 Narrative

The levels of PCE vapors found in buildings at the Site during removal assessment present a significant health threat due to inhalation hazards. Therefore, a time-critical removal action and 12-month emergency exemption action memorandum was signed on May 18, 2015.

2.1.1.1 Current situation

Vapor mitigation systems were installed in three properties on June 4 and 5, 2015 (Table 3).

2.1.2 Response activities to date

On May 11, 2015, OSC Susan Fisher met with Mayor David Jones and John Lund, Atlantic City Administrator, to discuss the sample results from the March 2015 sampling. OSC Fisher discussed the upcoming removal action for the PCE Chestnut Site and scheduled a public availability meeting for June 16, 2015 at the Atlantic City Hall.

No site activities from May 12, 2015 to June 15, 2015.

A public availability meeting was held on June 16, 2015, at the Atlantic City Hall at 6:30. Representatives at the meeting were:

Susan Fisher, EPA OSC and Project Manager
Ann Jacobs, EPA Risk Assessor
Dan Nicoski, EPA Hydrogeologist
Demetra Sallisbury, EPA Site Attorney
Pamela Houston, EPA Community Engagement Specialist
Erin Harman, Agency for Toxic Substance Disease Registry (ATSDR) Environmental Health Specialist

A presentation was given by Susan Fisher, Ann Jacobs and Pamela Houston. A copy of the presentation is included in the documents section of this web site.

Additional vapor intrusion sampling is scheduled for this Site the weeks of July 13 and 20, 2015.

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

PRPs have not been identified.

2.1.4 Progress Metrics

Table 1:

Vapor Intrusion Sampling

Address		Indoor Air or Sub Slab	Sample Number	PCE µg/m^3	TCE µg/m^3
315 Chestnut	3/30/2015	SS	6763-10	**2,300,000**	ND
315 Chestnut	3/30/2015	IA	6763-11	**550**	ND
319 Chestnut	3/30/2015	IA	6763-14	**180**	ND
312 Chestnut	3/30/2015	SS	6763-15	**9,200**	ND
312 Chestnut	3/30/2015	IA	6763-16	2.5	ND

µg/m^3 = micrograms per cubic meter

SS = subslab soil gas sample

IA = indoor air sample

ND = Non Detect

= sample result is above screening level

PCE = tetrachloroethene

TCE = trichloroethene

Table 2
Removal Action Levels (see action memorandum in document section):

	PCE	
	Indoor AirRemoval Action Levels µg/m^3	Sub-Slab Soil GasScreening Levels µg/m^3
Residential	42	1,400
Commercial	180	6,000

µg/m^3 = micrograms per cubic meter
PCE = tetrachloroethene

Table 3

Vapor Mitigation Systems Installed

Address	Date Installed
315 Chestnut	6/4/15
317 Chestnut	6/4/15
319 Chestnut	6/5/15

2.2 Planning Section

2.2 Planning

2.2.1 Anticipated activities for next reporting period

2.2.1.1 Planned Response Activities

An Action Memorandum with a 12-month exemption was signed on May 18, 2015.

Under the authority of section 104(a) of CERCLA, 42 U.S.C. § 9604(a), and section 302.4 of the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 C.F.R. § 302.415(b)(2), the removal action proposed will address immediate threats to public health, welfare and the environment posed by the Site through the following actions:

- Conduct additional sampling of subslab soil gas and indoor air.
- Conduct soil and groundwater collection and analysis at locations in the investigation area. Based on the results of these analyses, it may be necessary to address source areas with measures which could include soil removal or treatment, or other activities.
- Install vapor mitigation systems in buildings containing either indoor air or subslab soil gas PCE and/or TCE vapor concentrations exceeding the site-specific removal action levels (RALs) for soil gas contaminants. Site-specific action levels were prepared by the EPA's toxicologists to address direct exposure to potentially harmful PCE and/or TCE vapors. Initially, mitigation systems will be installed in structures exceeding the RALs. Additional systems may be installed depending on sample results.
- Monitor the effectiveness of the vapor mitigation systems by conducting verification indoor and subslab soil gas vapor air sampling following the installation of the systems.

2.2.1.2 Next Steps

Additional vapor intrusion sampling is scheduled for this Site the weeks of July 13 and 20, 2015.

2.2.1.2 Issues

No issues at this time.

2.3 Logistics Section

No Information at this time

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

No information at this time

3. Participating Entities

3.0 Participating Entities

3.1 Unified Command

Environmental Protection Agency

3.2 Cooperating and Assisting Agencies

City of Atlantic, Iowa

4. Personnel On Site

4.0 Personnel On Site and Off Site

Susan Fisher, EPA OSC and Project Manager
Ann Jacobs, EPA Risk Assessor
Dan Nicoski, EPA Hydrogeologist
Demetra Sallisbury, EPA Site Attorney
Pamela Houston, EPA Community Engagement Specialist

5. Definition of Terms

5.0 Definition of Terms

$\mu g/m^3$ - Micrograms per cubic meter
PRP - Potential Responsible Party
ND - Non Detect
SS - Subslab
IA - Indoor Air
PCE - Tetrachloroethene
TCE - Trichloroethene
APA - Abreviated Preliminary Assessment
OSC - On Scene Coordinator
ATSDR - Agency for Toxic Substance 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: