UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5

Subject:	**Situation Report #1**
Name of Site:	Springfield Street VOC Plume Site
Site ID Number:	B5DD
Location of Site:	Riverside, Ohio (Montgomery County)
To:	Region V Distribution List
From:	OSC Steve Renninger, Region V
Date:	April 14, 2006
Reporting Period:	April 4, 2006 to April 14, 2006

1.0 Introduction

1.1 Background

The Ohio EPA requested U.S. EPA assistance at the Springfield Street VOC Plume Site on November 16, 2005. The site is located on Planters Avenue between Springfield Street and Byesville Boulevard, Riverside, Montgomery County, Ohio. The Springfield Street VOC Plume source area is a parcel which is currently utilized for parking commercial trucks.

Starting in December 2004, the Ohio EPA collected ground water, soil, and soil gas samples from the area for VOC analysis in an effort to locate the source of volatile organic compounds (VOCs) affecting Dayton public wells, located along the Mad River. The Ohio EPA has determined that the source of the VOCs is an approximately 80 x 80 foot area on the parcel used for truck parking. Soil gas concentrations adjacent to a residence on Planters Avenue exceed U.S. EPA screening risk values for tetrachloroethylene (PCE) and are of immediate concern.

Elevated levels of PCE and other VOCs, are present in surface soils, and these contaminants are migrating from the source area in groundwater and in soil gas. Nearby residential areas are at risk for exposure to VOCs through vapor intrusion from soil gas to indoor air. VOCs in soil gas appear to originate from source soils and the groundwater plume.

Beginning in December, 2005, the U.S. EPA collected residential indoor air and soil samples from the area in order to determine if there is a threat presented by the on-site contamination. The U.S. EPA reviewed the residential air sampling data with ATSDR and the Ohio Department of Health (ODH) for the purpose of a Health Consultation.

From December 2005-April, 2006, the EPA has sampled indoor air at 22 locations. Sample results rec'd to date indicate 9 locations exceed long-term indoor air action levels established by ATSDR and ODH. On March 2, 2006, U.S. EPA Region 5 approved the action memorandum for a time critical removal action at the SSVP Site. The U.S. EPA removal action was initiated

on April 5, 2006 and will include removal of PCE contaminated soil (source area) and installation of residential vapor abatement systems.

1.2 Objectives -

1. Develop and implement a site health and safety plan.
2. Delineate extent of contamination for residential vapor intrusion
3. Design and install residential vapor abatement systems at residences identified by EPA indoor air monitoring greater than ATSDR action levels
4. Remove and properly dispose of PCE contaminated soil from the identified source area, restore to pre-removal conditions.
5. Implement a sampling plan to determine effectiveness of residential vapor abatement systems.

2.0 Current Activities

2.1 Operations –

Source Removal

On April 5, 2006, ERRS contractors initiated PCE contaminated soil excavation along Planters Avenue. Between April 5- April 14, 2006, approximately 1,200 cubic yards of PCE contaminated soil was transported for off-site disposal. Off-site disposal facility is EQ hazardous waste landfill in Bellevue, MI. Post excavation sampling was completed in grids 1E and 1W on April 12, 2006.

Perimeter Air Monitoring

On April 5, START established hot zone air monitoring locations utilizing 5 Area-Raes. Perimeter monitoring route established on Planters Avenue and Springfield Street for mobile Rapid Assessment Tool (RAT) monitoring. Air monitoring is conducted to protect adjacent residents and site workers.

Indoor Air Sampling

To date, indoor air sampling has been completed at 22 residences by EPA. Sampling includes sub-slab sampling and indoor air sampling for VOCs per ERT sampling protocol. Sample results are compared to ATSDR immediate and long-term action levels. 9 residences have been determined to be above the ATSDR action levels. With owners permission, EPA will install a residential vapor abatement system at residences with air monitoring results greater than ATSDR action levels.

Vapor Abatement System Installation

U.S. EPA indoor air monitoring has determined that 9 residences require vapor abatement system installation. To date, EPA has received property owner permission from 7 of 9 locations. An ERRS subcontractor (Radon Technologies) has completed site recon at 7 of 9 locations. Residential vapor abatement system installation is scheduled to begin on April 24, 2006. Figure 1

below identifies residential locations where vapor abatement systems will be installed (red and yellow).

2.2 Planning-

2.2.1 Anticipated Activities – Response activities will remain the same through the next reporting period.

2.2.2 Issues - Post excavation sample plan was completed on April 6, 2006. Vapor Abatement system performance sampling plan under development. All site sampling and monitoring is being tracked with a SCRIBE database. Resident Sample Location Map (attached as Figure 1) summarizes indoor air sampling completed to date.

2.3 Logistics-On April 5, 2006, the City of Riverside granted permission for EPA to utilize a city owned lot on Huberville Avenue for temporary staging of roll-off boxes and command post trailers. Site security is utilized at source area and command post locations during non-working hours.

EPA Command Post is located at 5275 Huberville Road, Riverside, Ohio
EPA Command Post phone number is 937-252-3346
EPA Command Post fax number is 937- 252-3336.

2.4 Finance- See Cost Information Table below

Cost Information through 4/14/2006

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	$500,000.00	$47,000.00	$453,000.00	90.60%
START	$27,800.00	$3,000.00	$24,800.00	89.21%
Intramural Costs				
USEPA - Direct (Region, HQ)	$5,000.00	$1,500.00	$3,500.00	70.00%
Total Site Costs	$532,800.00	$51,500.00	$481,300.00	90.33%

2.5 Safety - On April 4, 2006, the site health and safety plan was finalized and signed by all site personnel. On April 5, START established hot zone air monitoring locations utilizing 5 Area-Raes. Perimeter monitoring route established on Planters Avenue, Springfield Street, Byesville Blvd, Fairfax Street for mobile Rapid Assessment Tool (RAT) monitoring.

2.6 Information – U.S. EPA public meeting scheduled for April 26, 2006 at 801 Old Harshman Drive, Riverside, OH. Dayton Channel 2 news was on-site on April 10, 2006.

3.0 Participating Entities

Cooperating and Assisting Agencies -
Ohio EPA
City of Riverside Fire Dept
City of Riverside Police Dept
Ohio Dept of Health
Agency for Toxic Substances & Disease Registry

4.0 Personnel On Site

1 EPA OSC
6 ERRS – EQM and CMC
1 START – Tetra-Tech EMI

5.0 Definition of Terms

PCE	Perchloroethylene or tetrachloroethylene. Man-made chemical used in dry cleaning or metal degreasing
RAT	Rapid Assessment Tool, developed by EPA Region V. RAT utilizes a laptop computer, air monitoring equipment and GPS to datalog and map air monitoring results.
VOCs	Volatile Organic Compounds.
ECP	Emergency Contingency Plan

6.0 Additional Information

For additional information, please refer to “www.epaosc.net/springfieldstreetvocplume”

7.0 Reporting Schedule

The next Situation Report will be submitted on April 24, 2006.

Figure 1 – Residential Sample Location Map