U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Tuchman Cleaners - Removal Polrep

US EPA RECORDS CENTER REGION 5
435724

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: **POLREP #5**
Progress PolRep
Tuchman Cleaners
B5ZU
Indianapolis, IN
Latitude: 39.8369420 Longitude: -86.1210940

To:
Sherry Fielding, U.S. EPA
Jason El-Zein, U.S. EPA
Sam Borries, U.S. EPA
Mark Durno, U.S. EPA
Charlie Gebien, U.S. EPA
John Glover, U.S. EPA
Thomas Marks, U.S. EPA
Yolanda Bouchee-Cureton, U.S. EPA
Peter Felitti, U.S. EPA
Cheryl McIntyre, U.S. EPA
Francisco Arcaute, U.S. EPA
Janet Pope, U.S. EPA
Nuria Muniz, U.S. EPA
Mark Johnson, ATSDR
Valencia Darby, Department of Interior
Lindy Nelson, U.S. DOI
USCG PolRep Distribution, USCG
Chris Worden, Office of Congressman Andre Carson
Gregory Porter, State Representative
Joseph Simpson, City-County Council
Harry Atkinson, IDEM
Gabriele Hauer, IDEM
Max Michael, IDEM
Rex Osborn, IDEM
Dawn Groves, IDEM
Steven Meyer, City of Indianapolis
Dana Reed-Wise, Marion County Public Health Department
Pam Thevenow, Marion County Health Department
Jeff Larmore, Marion County Health Department
Fred Schwoymeyer, Indianapolis Fire Department
Mike Woida, Indianapolis Metropolitan Police Department
Ann McIver, Citizens Energy Group

From: Shelly Lam, On-Scene Coordinator
Date: 10/19/2012
Reporting Period: October 13 - 19, 2012

1. Introduction

1.1 Background

Site Number:	B5ZU	**Contract Number:**	EP-S5-09-05
D.O. Number:	106	**Action Memo Date:**	8/16/2012
Response Authority:	CERCLA	**Response Type:**	Time-Critical
Response Lead:	EPA	**Incident Category:**	Removal Action
NPL Status:	Non NPL	**Operable Unit:**	

Mobilization Date:	9/17/2012	**Start Date:**	9/17/2012
Demob Date:		**Completion Date:**	
CERCLIS ID:	INN000510530	**RCRIS ID:**	IND982425662
ERNS No.:		**State Notification:**	
FPN#:		**Reimbursable Account #:**	

1.1.1 Incident Category
Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) incident category: Inactive Production Facility

1.1.2 Site Description
The following sections provide information on the site location, description of threat, and site assessment results.

1.1.2.1 Location
The Tuchman Cleaners site is located at 4401 N. Keystone Avenue in Indianapolis, Marion County, Indiana, 46205. The Site is located in an area northeast of downtown Indianapolis that is commercial and residential. Approximately 10,000 people live within one mile of the Site. The Fall Creek well field is less than ¼ mile from the Site. Fall Creek, a major tributary to the White River, is located approximately 500 feet south of the Site. The geographical coordinates for the Site are latitude 39.836942 ° north and longitude 86.121094° west.

1.1.2.2 Description of Threat
A release of hazardous substances, pollutants, or contaminants is present at the Site. The U.S. Environmental Protection Agency (EPA) documented the presence of hazardous substances as defined by section 101(14) of CERCLA, including tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (DCE), vinyl chloride, chloroform, and 1,1,2,2-tetrachloroethane; and pollutants and contaminants as defined by 101(33) of CERCLA.

Hazardous substances are present in soil, groundwater, and soil vapor. Possible exposure routes to hazardous substances include dermal contact with contaminated surface and subsurface soil during excavation activities; inhalation of contaminated air that has migrated through subsurface soil and groundwater, i.e. vapor intrusion; and ingestion of contaminated drinking water. Potential human receptors include future on-Site workers and nearby residents, including children in a day care adjacent to the Site.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results
At the request of the Indiana Department of Environmental Management (IDEM), EPA performed Site Assessments January 24 – 27, 2011 and April 9-10, 2012. EPA and the Superfund Technical Assessment and Response Team (START) contractor collected seven subsurface soil samples for volatile organic compounds (VOC) and Toxicity Characteristic Leachate Procedure (TCLP) VOC analysis; ten groundwater samples from existing monitoring wells for VOC analysis; and nine soil gas samples, two of which were collected on-Site and seven of which were collected off-Site in a residential neighborhood about ¼ mile west of the Site.

EPA compared soil results to May 2012 Regional Screening Levels (RSL) for industrial soil. 1,1,2,2-Tetrachloroethane was detected in one sample at a concentration of 11 milligrams per kilogram (mg/kg), above the RSL of 2.8 mg/kg. All samples were below the Resource Conservation Recovery Act (RCRA) criteria for toxicity. Historical soil analytical results documented that PCE was detected in near-surface soil (1 foot below ground surface (bgs)) at a maximum concentration of 2,400 mg/kg.

Groundwater results were compared to Superfund Removal Actions Levels (RAL), which were developed for contaminated drinking water sites. The groundwater at Tuchman is not a drinking water source but could potentially migrate into the drinking water supply in the Fall Creek well field. Six of the ten monitoring wells sampled contained VOCs above the Superfund RALs; these VOCs included cis-1,2-DCE, PCE, TCE, and vinyl chloride. PCE was detected at a maximum concentration of 49,000 micrograms per liter (ug/L). Historical results indicated that PCE was detected in groundwater at a maximum concentration of 135,000 ug/L in groundwater monitoring well MW-2i. TCE was detected at a maximum concentration of 2,960 ug/L.

Soil gas data was collected at the site and in a residential area to the west. The results were compared to soil gas screening levels for a 10^{-4} cancer risk as established in EPA's Vapor Intrusion Screening Level (VISL) spreadsheet, which were then converted from units of micrograms per cubic meter (ug/m^3) to parts per billion by volume (ppbv) using standard atmospheric temperature and pressure and the molecular weight of each chemical constituent. Seven of the nine soil gas samples contained VOCs above the VISL screening levels; these VOCs included chloroform, propylbenzene, PCE, and TCE. PCE was detected at a maximum concentration of 36,000 ppbv.

EPA conducted an extent-of-contamination survey September 17 - 19, 2012. EPA divided the Site into 25-foot grids and collected soil samples from each grid to determine the extent-of-contamination in soil. Analytical results indicated that three grids exceeded the criteria for hazardous waste. Results in those grids ranged from 18,000 to 2,300,000 ug/kg for total PCE. EPA will use a conservative approach in waste disposal and will manage grids adjoining hazardous grids as hazardous waste.

EPA's "contained-in" policy states that environmental media contaminated with a hazardous waste must be managed as if they were hazardous wastes until they no longer contain the listed waste, no longer exhibit a characteristic, or are delisted. In accordance with the contained-in policy, a determination as to whether or not "listed" waste is contained-in soil or groundwater may be made by authorized states based on whether constituents from listed waste are below health-based levels. IDEM has determined that contamination levels specified in the *Risk Integrated System of Closure (RISC)* system represent appropriate health-based levels for determining if soil or groundwater contain "listed" hazardous waste. Specifically, soil concentrations must be below the toxicity characteristic and RISC Industrial Soil Direct Level. PCE-contaminated soil is considered hazardous waste if it is above 0.7 milligrams per liter (mg/L) for TCLP PCE or 16,000 ug/kg for total PCE. PCE-contaminated soil between the Residential Soil Direct Level and Industrial Soil Direct Level may be managed as non-hazardous waste; this corresponds to 9,900 to 16,000 ug/kg for total PCE. Soil below 9,900 ug/kg for total PCE is below the Residential Soil Direct Level and may be left in place.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

Tuchman Cleaners operated as a dry cleaner at the Keystone facility beginning in 1953 until 2008 when the parent company declared bankruptcy. Historical operations at the site caused releases of dry cleaning solvents, primarily PCE, to soil and groundwater.

Prior to the construction of the dry cleaning facility, the property was an empty lot. In January 2012, the City of Indianapolis completed demolition of the on-site building to assist with EPA's time-critical removal.

2.1.2 Response Actions to Date

During the reporting period, EPA accomplished the following:

- Conducted vapor intrusion sampling at six properties, which included collection of both sub-slab and indoor air samples;
- Completed excavating contaminated soil from Grids H3, I3, J3, H4, I4, J4, H5, I5, and J5;
- Excavated test pits in several grids to evaluate the depth of contaminant migration in soil;
- Continued resizing concrete to use as excavation backfill material;
- Conducted air monitoring using an AreaRAE network for VOCs and DataRAMs connected to VIPER for particulates;
- Collected soil samples and a soil gas sample at the adjoining property to the south;
- Received analytical results from the vapor instrusion assessment for six properties (see below); and
- Maintained site security during off-site hours.

EPA received analytical results from the vapor intrusion assessment for six properties. Four of the six properties had VOCs above indoor air screening levels established by the Agency for Toxic Substances and Disease Registry (ATSDR). Maximum concentrations for chemicals above screening levels in indoor air included 1,2,4-trimethylbenzene at 41 ppbv; chloroform at 1.8 ppbv; PCE at 22 ppbv; and TCE at 1.3 ppbv. Screening levels for indoor air are 1.5 ppbv for 1,2,4-trimethylbenzene; 0.09 ppbv for chloroform; 6 ppbv for PCE; and 0.45 ppbv for TCE.

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

EPA has issued General Notice Letters and/or 104(e) requests to 11 different parties. Based on the information received, none of the parties is either liable or have the financial resources to conduct the work. Thus, EPA does not intend to issue an order because the former owner is in Chapter 11 receivership.

2.1.4 Progress Metrics

Waste Stream	*Medium*	*Quantity*	*Manifest #*	*Treatment*	*Disposal*
Pending					

R5 Priorities Summary		
	Miles of river systems cleaned and/or restored	NA
	Cubic yards of contaminated sediments removed and/or capped	NA

Assessment.	Gallons of oil/water recovered	NA
	Acres of soil/sediment cleaned up in floodplains and riverbanks	NA
Stand Alone Assessment	Acres Protected	2.2
	Number of contaminated residential yards cleaned up	0
	Human Health Exposures Avoided	
	Number of workers on site	8
Contaminant(s) of Concern		
Contaminant(s) of Concern	PCE, TCE, cis-1,2-DCE, vinyl chloride, chloroform, 1,1,2,2-tetrachloroethane	

Green Initiatives

EPA and its contractors are practicing the following Green Initiatives:

- Using recycled paper products;
- Producing electronic 1900-55's instead of printing;
- Double-sided printing;
- Utilizing a water cooler instead of bottled water;
- Using electricity from the grid instead of a generator;
- Using rechargeable batteries;
- Established a no-idling policy for vehicles; and
- Recycling paper, cardboard, plastic, glass, aluminum, ink, and batteries.

2.2 Planning Section

2.2.1 Anticipated Activities

EPA is conducting the following response actions to mitigate threats posed by the presence of hazardous substances at the Tuchman Cleaners Site: develop and implement a Site Health and Safety Plan and a Site Security Plan; remove contaminated soil that poses a direct contact threat; backfill excavated areas with clean impermeable fill; conduct vapor intrusion assessment at residential properties and an adjacent day care; perform vapor intrusion mitigation at properties where relevant indoor air action levels are exceeded in accordance with current EPA guidance; and consolidate and package hazardous substances, pollutants and contaminants for transportation and off-site disposal in accordance with the EPA Off-Site Rule, 40 C.F.R. § 300.440.

2.2.1.1 Planned Response Activities

During the next reporting period, EPA will continue vapor intrusion sampling and begin soil disposal. EPA will send contaminated soil to EQM's Michigan Disposal and Wayne Disposal facilities in Belleville, Michigan. Both facilities are in compliance with the Off-Site Rule. Additionally, EPA will schedule installation of vapor mitigation systems.

2.2.1.2 Next Steps

EPA will excavate contaminated soil from Grid E5 and surrounding grids once disposal of soil from Grids D1 and I4 is complete.

2.2.2 Issues

None

2.3 Logistics Section

The Emergency and Rapid Response Services (ERRS) contractor is providing logistical support.

2.4 Finance Section

2.4.1 Narrative

EPA issued delivery order 106 to the ERRS contractor on September 4, 2012 in the amount of $1,500,000. The costs represented below include incurred and pending costs through October 18, 2012.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	$1,500,000.00	$220,597.86	$1,279,402.14	85.29%
TAT/START	$75,000.00	$43,050.00	$31,950.00	42.60%
Intramural Costs				
Total Site Costs	$1,575,000.00	$263,647.86	$1,311,352.14	83.26%

* 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

2.5.1 Safety

On September 17, 2012, the Health and Safety Plan (HASP) was finalized and signed by all site personnel. All personnel on-site are attending daily health and safety briefings

2.5.2 Liaison Officer

Not applicable (NA)

2.5.3 Information Officer

During previous reporting periods, EPA sent fact sheets and access agreements to nearby residents and businesses to inform them of work at the site and to request access for vapor intrusion sampling. In addition, EPA conducted door-to-door engagement with community residents. EPA hosted a public meeting on October 3, 2012, and conducted radio and television interviews.

3. Participating Entities

3.1 Unified Command

NA

3.2 Cooperating Agencies

ATSDR
IDEM
Marion County Public Health Department
City of Indianapolis
Citizens Energy

4. Personnel On Site

The following personnel were on-site during the reporting period.

Agency	Position	# Personnel
EPA	OSC	1
ERRS	Response Manager	1
	Equipment Operator	2
	Laborer	2
	On-Site monitoring	

START	and documentation support	2
Subcontractors	Security	1

5. Definition of Terms

ATSDR	Agency for Toxic Substances and Disease Registry
bgs	below ground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DCE	Dichloroethene
EPA	Environmental Protection Agency
ERRS	Emergency and Rapid Response Services
HASP	Health and Safety Plan
IDEM	Indiana Department of Environmental Management
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
NA	Not Applicable
OSC	On-Scene Coordinator
PCE	Tetrachloroethene
PolRep	Pollution Report
ppbv	parts per billion by volume
PRP	Potentially Responsible Party
RAL	Removal Action Level
RCRA	Resource Conservation Recovery Act
RISC	Risk Integrated System of Closure
RSL	Regional Screening Levels
START	Superfund Technical Assessment and Response Team
TCE	Trichloroethene
TCLP	Toxicity Characteristic Leachate Procedure
ug/L	micrograms per liter
ug/m^3	micrograms per cubic meter
UST	Underground Storage Tank
VISL	Vapor Instrusion Screening Level
VOC	Volatile Organic Compounds

6. Additional sources of information

6.1 Internet location of additional information/report
For additional information, refer to www.epaosc.org/tuchman or http://www.epa.gov/region5/cleanup/tuchman/index.html.

6.2 Reporting Schedule
The next Pollution Report (PolRep) will be submitted the week of October 22, 2012.

7. Situational Reference Materials
NA

CAUTION
CAUTION