

**ENVIROCORP, INC.  
SITE SAFETY PLAN  
(SITE SPECIFIC)**

**Former Oliver Plow Works, VRP #6001202  
Remediation Work Plan**

**A. GENERAL INFORMATION**

**Project Name:** Remediation Work Plan

**Project Number:** 80D2468

**Location:** 533 South Chapin Street, South Bend, Indiana , IN

**Client:** City of South Bend, Community and Economic Development

**Plan Prepared By:** Michael A. Furfaro, CHMM #2120

**Date:** May 24, 2002

**Plan Approved By:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Project Start Date:**

**B. SITE DESCRIPTION**

**Facility History:** See the remediation work plan for a detailed discussion of the history of the site.

**General Site Description:** The site is vacant except for the office area. See the work plan for detailed site maps.

**C. PROJECT OBJECTIVE(S)**

The objective of this project is to demonstrate the suitability of the site for a covenant not-to-sue in relation to the chemicals of concern levels in the groundwater, surface soils, and subsurface soils.

**D. PROJECT ORGANIZATION**

<u>Team Member</u>	<u>Responsibility</u>	<u>Type of Training</u>	<u>Date of Training</u>
Michael Furfaro	Project Manager/Geochemist	OSHA 8 Hr. Rfshr	March, 2002
Rick Brown	Environmental Manager	OSHA 8 Hr. Rfshr	March, 2002
Joseph Trojan	Geologist	OSHA 8 Hr. Rfshr	March, 2002
Chris Burgo	Senior Technician	OSHA 8 Hr. Rfshr	March, 2002
Eric Henderson	Geologist	OSHA 8 Hr. Rfshr	March, 2002
Tony Pigors	Health & Safety Officer	OSHA 8 Hr. Rfshr	March, 2002

**E. CHEMICAL HAZARD ANALYSIS (1910.120(b)(4))**

Contaminant	PEL/TLV	STEL	LEL/UEL (%)	Flash Point	Routes of Exposure
Lead	N/A	N/A	N/A	N/A	Skin, Ingestion
Benzene	0.1 ppm	1	1.2%/7.8%	12 °F	Skin, Inhalation, Ingestion
Toluene	100 ppm	150 ppm	1.1%/7.1%	40 °F	Skin, Inhalation, Ingestion
Ethyl Benzene	100 ppm	125 ppm	0.8%/6.7%	55 °F	Skin, Inhalation, Ingestion
1,1-DCA	100 ppm	NA	5.4%/11.4%	2 °F	Skin, Inhalation, Ingestion
Vinyl Chloride	1 ppm	5 ppm	3.6%/33%	42 °F	Skin, Inhalation, Ingestion

Note: All of these compounds are present at sub ppm levels as part of the soil/groundwater matrix, not as pure substances.

Avoid direct skin contact with all cuttings; wash hands thoroughly before eating; change clothes; and shower after leaving site.

**F. OTHER HAZARDS**

**Heat Stress:**  yes \_\_\_ no: (Dependent on the Season)

Take frequent breaks (every 15 to 30 minutes) as temperatures climb into the upper 80's and 90's F. Drink plenty of fluids, preferably water, and stay out of the sun if possible.

**Cold Stress:**  yes \_\_\_ no: (Dependent on the Season)

Take frequent breaks in a warm area if temperatures drop below 15 F.

**Excessive Noise:**  yes \_\_\_ no.:

Personnel will wear earplugs during the operation of drilling equipment.

**Confined Space Entry:** \_\_\_yes  no.

**Open Excavations:** \_\_\_yes  no.

**Welding and/or Cutting:** \_\_\_yes  no.

**Heavy Equipment Operation:**  yes \_\_\_ no.

Unless operating, stay at least 10 feet away from the drilling unit when in operation.. All personnel in the area of the equipment will wear a hard hat and steel toe shoes

**Slip, Trip, Fall Hazards:** \_\_\_ yes  no. - No unusual hazards noted - check site before initiating an investigation to identify any new hazards that may exist at the site.

**Presence of Underground Utilities:**  yes \_\_\_ no

Utility location service ID# :

Name of contact: Indiana Underground Plant Protection Services

Phone number: 1-800-382-5544

Precautions to be taken: Avoid all marked lines and have site contact verify private lines, if possible.

**Presence of Overhead Utilities:** \_\_\_ yes  no

Specify exact location: \_\_\_\_\_

Precautions to be taken: \_\_\_\_\_

**Other Hazards:** (Specify): None at this time

**G. SITE CONTROL (1910.120(d))**

Site Security: Security on site will be maintained by:  
\_\_\_\_\_ Temporary barricades and/or warning tape  
\_\_\_\_\_ Security fence  
\_\_\_\_\_ 24 hour security guard  
\_\_\_\_\_  Other (specify): Client – Area fenced

**H. PERSONAL PROTECTIVE EQUIPMENT**

Required Level "D" protective equipment

Hard Hat, Steel Toe Boots, Safety Glasses, Work Gloves, Hearing Protection, Sample Gloves (Nitrile), Site Safety Plan.

Level "C" protective equipment may be required if conditions warrant. This includes a full face respirator, organic cartridges, and full body Tyvek or similar protective suit. The health and safety officer or project manager has responsibility to upgrade the level of personal protection based upon PID readings and/or other conditions.

**I. DECONTAMINATION**

Decontamination procedures for personnel and equipment to include:

**Personnel:** Remove gross contamination with water and soap. Wash exposed areas thoroughly with copious amounts of water and soap if any subsurface soil contacts skin. All clothing that has come in contact with drill cuttings or groundwater should be removed and thoroughly washed before use.

**Equipment:** Use water and soap and a scrub brush.

**J. AMBIENT AIR MONITORING**

<u>Activity</u>	<u>Instruments</u>	<u>Action Level</u>	<u>Frequency</u>
Direct Push	PID	>30 ppm	During Removal

Comments:

No elevated vapor readings are expected at this site. If the PID readings exceed 20, assure that a sufficient wind velocity exists to remove vapors from the drilling areas. If not, contact the site safety supervisor and upgrade personnel protection to respirators with organic cartridges.

**K. CONTINGENCY PLAN**

**Emergency Communication Signal(s)** (specify): An air horn will be carried by the primary project manger on the site. If three horn blasts are sounded, an emergency situation is occurring. All personnel should check in with the leader in their area and follow their instructions to move to a safe location. If the leader is not available, move to the safe area. This will be in the corner of the site that is upwind of the main area of investigation.

**Emergency Escape Route(s)**: The site will have no buildings on it during this project. If there is any emergency, all personnel will move to the upwind corner location (to be specified each morning in the safety briefing) for further instructions.

**Emergency Equipment On-Site:** (specify location):

- First Aid Kit: At each direct push location and at the field sampling area
- Fire Extinguisher: At each direct push location and at the field sampling area
- Telephone: Cell Phone and/or Walkie-Talkies with each individual
- Others (specify):



**\*\* EMERGENCY PHONE NUMBERS \*\***

---- Post in Full View ----

Envirocorp South Bend Office .....	(574) 287-2282
Michael Furfaro Cell Phone .....	(574) 250-3274
Andy Laurent, City of South Bend .....	(574) 245-6112
Ruth Williams, VRP Project Manager .....	(317) 233-4623
IDEM Emergency Response .....	(888) 233-7745
Chemtrec .....	(800) 424-9300
Bureau of Explosives .....	(202) 293-4048
Center for Disease Control .....	(404) 633-5313
(Biological Agents)	
National Response Center .....	(800) 424-3802
(Oil/Hazardous Substances)	
DOT Office of Hazardous Operations .....	(202) 426-0656

**HOSPITAL:**

(Name): Memorial Hospital  
(Address): 615 North Michigan Street, South Bend, Indiana  
(Phone): 234-9041  
Travel Time: 10 minutes

Directions: Take Chapin Street north to Lincolnway. Turn right (east). At Michigan Street., turn left, (North) and travel approximately 4 blocks north. Follow the signs to the emergency room.  
Map Attached: YES

**PARAMEDICS:**

(Name): South Bend Fire Department  
(Phone): 911

**FIRE DEPARTMENT:**

(Name): South Bend Fire Department  
(Phone): 911

**LOCAL POLICE:**

(Name): South Bend Police Department  
(Phone): 911

**UTILITIES:**

Electric: NIPSCO  
Gas: NIPSCO (Emergency Number for Gas Leaks 1-800-634-3524)  
Water: City of South Bend Water Department– 874-6683  
Sewer: City of South Bend – 873-1525