

U.S. ENVIRONMENTAL PROTECTION AGENCY
 POLLUTION/SITUATION REPORT
 Portage Creek Area - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region V

Subject: POLREP #19
 Progress
 Portage Creek Area
 059B05
 Kalamazoo, MI
 Latitude: 42.2839750 Longitude: -85.5791570

To: Sam Borries, U.S. EPA
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 Todd Goeks, NOAA
 Valencia Darby, Department of Interior
 Mark Johnson, ATSDR

From: Craig Thomas, On-Scene Coordinator

Date: 9/28/2012

Reporting Period: 9/15/2012 - 9/28/2012

1. Introduction

1.1 Background

Site Number:	059B05	Contract Number:	EP-S5-09-05
D.O. Number:	0087	Action Memo Date:	7/5/2011
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	NPL	Operable Unit:	05
Mobilization Date:	9/26/2011	Start Date:	8/30/2011
Demob Date:		Completion Date:	
CERCLIS ID:	MID006007306	RCRIS ID:	NA
ERNS No.:		State Notification:	Yes
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

Fund-lead removal action

1.1.2 Site Description

See POLREP #1

1.1.2.1 Location

See POLREP #1

1.1.2.2 Description of Threat

See POLREP #1

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

See POLREP #1

2. Current Activities**2.1 Operations Section****2.1.1 Narrative**

Dredging and backfill operations continued in SA5D (Upjohn Park). Visible gross contamination and elevated PCB test results at target excavation depths (see Sections 2.1.2 and 2.2.2) required additional excavation to meet the clean-up performance standard. Dredging operations began in SA5C on September 25.

2.1.2 Response Actions to Date

From September 15 to September 28, EPA, START and ERRS contractors conducted the following activities:

Site Activities - SA5D & SA5C

- Excavated contaminated sediments from grids SA5D-14 to SA5D-16 (see table below for details) and placed backfill materials / coir logs according to the site restoration plan; and
- Excavated contaminated sediments from grids SA5C-1 to SA5C-3.

GRID	TOTAL ESTIMATED EXCAVATION DEPTH (in)	FINAL CONFIRMATION PCB RESULT (mg/kg)
SA5D-14	60	0.26
SA5D-15	60	ND
SA5D-16	60	0.21
SA5C-1	71	0.93
SA5C-2	54	0.058
SA5C-3	66	TBD

ND: non-detect dup: duplicate sample location

Site Activities - Staging Pad

- Solidified and loaded out approximately 967.45 tons of TSCA (> 50ppm PCBs) contaminated sediment for disposal at Wayne Disposal landfill in Belleville, Michigan;
- Solidified and loaded out approximately 687.44 tons of non-TSCA (< 50ppm PCBs) contaminated sediments for disposal at C&C Landfill in Marshall, Michigan; and
- Treated 63,909 gallons of potentially contaminated contact water in EPA's mobile wastewater treatment plant, with a total of 542,182 gallons treated to date.

Project Management Activities

- Continued weekly progress meetings with City of Kalamazoo;
- Conducted data validation for additional post-removal confirmation sediment samples collected from SA5D;
- Continued development of seasonal site shut-down / demobilization plan; and
- Continued discussions with property owners in SA5A and SA3A regarding site access, preparation an restoration.

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

See POLREP #1

2.1.4 Progress Metrics

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>
TSCA contaminated sediments	solidified sediment	967.45 tons (est)	009077488JJK - 009077494JJK & 010588878JJK-010588892JJK	disposal	Wayne Disposal, Belleville, MI
Non-TSCA contaminated sediments	solidified sediment	687.44 tons (est)	NTSCA-159 to NTSCA-177	disposal	C&C Landfill, Marshall MI

2.2 Planning Section

A summary of removal activities that will take place from September 29 through October 12 include:

Site Activities - Staging Pad

- Continue de-watering and solidification of excavated sediments for transport;
- Continue transport of solidified sediments for disposal; and
- Continue treatment of contaminated water in EPA's mobile waste water treatment plant.

Site Activities - SA5D & SA5C

- Excavate, solidify and transport for disposal contaminated sediments from Portage Creek in grids SA5-4 to SA5C-6 (between Crosstown Parkway and Vine Street);
- Backfill and install coir logs in grids SA5C-1 to SA5C-6 according to Restoration Plan;
- Attempt to excavate grid SA5D-17 once dam near Crosstown Parkway is removed;
- Remove isolation groundwater de-watering system in SA5C; and
- Begin demobilization of all engineering and environmental controls.

Project Management Activities

- Continue weekly progress meetings with City of Kalamazoo;
- Conduct pre-construction sampling and contaminated sediment confirmation sampling of SA5A & SA3A;
- Obtain access agreements for properties on west creek banks in SA5A and SA3A; and
- Meet with Trustees and John Street Staging area property to discuss future restoration of the staging pad property.

2.2.1 Anticipated Activities

See POLREP #2

2.2.1.1 Planned Response Activities

See above

2.2.1.2 Next Steps

See above

2.2.2 Issues

- Excavation of grids to initial target depths revealed visual paper pulp material. Therefore, many grids were over-excavated until that material was no longer visible. Grids SA5D-14, SA5D-15, and SA5C-1 were sampled at the initial target depths (see table below), to verify that the suspected paper pulp material exceeded project performance standards. All confirmatory sample results from over-excavation in grids SA5D-14 to SA5D-16 and SA5C-1 and SA5C-2 were under the performance standard of 10 mg/kg as well as the performance standard goal of 1 mg/kg as listed below (see table).

GRID	INITIAL TARGET DEPTH (in)	INITIAL PCB RESULT (mg/kg)	OVER DIG (in)	TOTAL ESTIMATED DEPTH (in)	FINAL DEPTH PCB RESULT (mg/kg)
SA5D-14	36	4	24	60	0.26
SA5D-15	54	5.53	6	60	ND
SA5D-16	42	--	18	60	0.21
SA5C-1	36	3.97	25	71	0.93
SA5C-2	36	--	18	54	0.058
SA5C-3	36	--		66	TBD

ND: Non-detect dup: duplicate sample location

- The additional over-excavation in grids SA5D-14 to SA5D-16 and SA5C-1 to SA5C-3 resulted in increased costs and added expenses for personnel, equipment, transportation, disposal, sampling and backfill material.

- A significant rain event occurred on September 22 & 23, causing over-topping of the sheet pile wall at Lake Street and sand bag dam at Crosstown Parkway. Upstream water entered the SA5C excavation area. This event caused further delays, with all activities except water management suspended on September 24.

- A pump failure in a bypass pump occurred the night of September 2, leading to over-topping of sheet pile wall at Lake Street and the sand bag dam at Crosstown Parkway. This allowed water to enter the SA5C excavation area. Although it did not completely shut down excavation activities, additional time was spent managing water from this event.

2.3 Logistics Section

The current resources present on site during this reporting period include:

- Office trailers
- Portable restrooms and hand-washing stations
- Portable generators
- Submersible pumps
- Equipment storage container
- ERRS work crews and subcontractor work crews
- START sampling contractor
- Heavy equipment
- Water truck
- Street sweeper
- Mixing boxes
- Frac (water) tank
- Pressure wash trailer
- Bypass pumps and piping
- Sheet piling and steel bridge personnel support structures
- Mobile wastewater treatment plant
- Temporary steel bridge
- Monitoring Equipment

2.4 Finance Section

2.4.1 Narrative

See table

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining

Extramural Costs				
ERRS - Cleanup Contractor	\$7,600,000.00	\$5,196,719.00	\$2,403,281.00	31.62%
TAT/START	\$300,000.00	\$246,000.00	\$54,000.00	18.00%
Intramural Costs				
Total Site Costs	\$7,900,000.00	\$5,442,719.00	\$2,457,281.00	31.10%

* 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 Officer

Craig Thomas and Paul Ruesch serve as safety officer(s). The HASP is reviewed and signed by all site personnel. All new personnel, including sub-contractors, are provided a site orientation and safety briefing. Safety meetings are held each morning with all site workers.

2.6 Liaison Officer

Craig Thomas and Paul Ruesch serve as liaison(s) with local officials and interested parties.

2.7 Information Officer

An environmental law class from Michigan State University visited the site on September 26. Approximately 15 students and instructors received an overview of the site, process and viewed field activities.

2.7.1 Public Information Officer

See Section 2.6

2.7.2 Community Involvement Coordinator

Don DeBlasio - U.S. EPA

3. Participating Entities

3.1 Unified Command

N/A

3.2 Cooperating Agencies

U.S. Environmental Protection Agency
Michigan Department of Environmental Quality
Michigan Department of Agriculture and Rural Development
Michigan Department of Natural Resources
U.S. Fish and Wildlife Service
City of Kalamazoo:
 Department of Public Services
 Parks and Recreation Department
 Economic Development Department
 Community Planning & Development
 Public Safety Department
 Fire Department

Police Department
 ReDevelopment Department
 Bronson Methodist Hospital
 Kalamazoo Nature Center

4. Personnel On Site

U.S. EPA - 3
 ERRS contractor (Environmental Quality Management, Inc) - 13
 START contractor (Dynamac/Weston) - 1
 CMC Contractors (excavation subcontractor) - 1
 Rain for Rent (groundwater extraction subcontractor) - 2
 Katerberg Verhage (restoration subcontractor) - 3
 Baker Pumps - 1

TOTAL PERSONNEL = 24

5. Definition of Terms

C&D - Construction and Demolition (waste)
 ERRS - Emergency and Rapid Response Services
 FOSC - Federal On Scene Coordinator
 U.S. FWS - United States Fish and Wildlife Service
 HASP - Health and Safety Plan
 HDPE - High density polyethylene (plastic)
 mg/kg - milligrams per kilogram
 mg/m³ - milligrams per cubic meter
 MDARD - Michigan Department of Agriculture and Rural Development
 MDEQ - Michigan Department of Environmental Quality
 NA - Not Applicable
 NOAA - National Oceanic and Atmospheric Administration
 NPL - National Priorities List
 NRDA - Natural Resource Damage Assessment
 ntu - nephelometric turbidity units
 PCB - polychlorinated biphenyl
 ppm - parts per million
 PRPs - Potentially Responsible Parties
 RTK GPS - Real Time Kinematic Global Positioning System
 SA - Slope Area
 START - Superfund Technical Assessment and Response Team
 U.S. EPA - United States Environmental Protection Agency

6. Additional sources of information

6.1 Internet location of additional information/report

See the project website at <http://www.epaosc.org/portagecreekarea>.

6.2 Reporting Schedule

The next POLREP will be generated in approximately 2 weeks.

7. Situational Reference Materials

See the project website at <http://www.epaosc.org/portagecreekarea>.

Additional information on the overall Kalamazoo River Project can be found at <http://www.epa.gov/Region5/cleanup/kalproject/index.htm>.