

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Baycote Metal Finishing Site - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #24
Progress
Baycote Metal Finishing Site
C5B2
Mishawaka, IN
Latitude: 41.6497046 Longitude: -86.1648540

To: Sam Borries, U.S. EPA
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From: Paul Atkociunas, OSC

Date: 11/30/2012

Reporting Period: November 8 - 29, 2012

1. Introduction

1.1 Background

Site Number:	C5B2	Contract Number:	EP-S5-09-05
D.O. Number:		Action Memo Date:	2/23/2012
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	5/29/2012	Start Date:	5/29/2012
Demob Date:		Completion Date:	
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

Time-Critical Removal Action: Manufacturing/Processing/Maintenance – Electroplating, Metal Finishing

1.1.2 Site Description

See Initial Polrep.

1.1.2.1 Location

The Baycote Metal Finishing Site is located at 1302 Industrial Drive in Mishawaka, St. Joseph County, Indiana 46544. The geographical coordinates for the Site are 41°39'0.03" North latitude and 86°09'57.11" West

longitude. The Site is bordered by industrial properties to the north, east, and south and Industrial Drive and industrial properties to the west. Residential properties are located approximately 700 feet to the west. Seven churches and two schools are located within 1 mile of the Site. The St. Joseph River, a major surface water body that terminates in Lake Michigan, is located 0.85 mile northwest of the Site.

1.1.2.2 Description of Threat

See Initial Polrep.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

See Initial Polrep.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

In a letter dated November 11, 2011, the St. Joseph County Health Department (SJCHD) requested assistance from the U.S. EPA to secure hazardous wastes left on-site. SJCHD was concerned that the Site posed a significant threat to the health and safety of companies within the industrial park as well as the residential area located less than a 1,000 feet from the facility. On February 23, 2012, the Director of U.S. EPA's Superfund Division approved an Action Memorandum for a time-critical removal action at the Baycote Metal Finishing Site.

On April 6, 2012, U.S. EPA issued a Unilateral Administrative Order to the potentially responsible parties to conduct a removal action at the Site. The potentially responsible parties presented and inability to pay argument and indicated that they did not intend to conduct a removal action at the Site. EPA began time-critical removal actions at the Baycote Site on May 29, 2012.

2.1.2 Response Actions

Please refer to previous Polreps for response actions prior to November 8, 2012. During the reporting period, EPA conducted the following activities:

- Wastes were transported to licensed disposal facilities. See Waste Disposal Information Table below.
- EPA and its contractors implemented Green Practices onsite (double sided printing, Culligan water service / dedicated water bottles, dedicated steel toed Chem boots, city electrical power, CFL bulbs, etc...). To date approximately 139,700 pounds of scrap steel has been recycled. EPA also provided a pallet of thirty eight 50-pound bags of Alka40 (Calcium Hydroxide) for reuse to the US Ecology facility. Water service / reusable dedicated water bottles saved approximately 3,100 disposable water bottles.
- EPA conducted a walkthrough with St. Joseph Public Health Department and Mishawaka Fire Department personnel. EPA outlined response activities, the current status of the site, and future plans.
- EPA, ERRS and START demobilized from site for the winter months. EPA, ERRS and START are scheduled to remobilize to the Site in Spring to complete the removal action.

2.1.4 Progress Metrics

Waste Staged for Disposal, as of November 30:

None.

Waste Disposal Information Table:

Waste Stream	Date	Quantity	Manifest #	Treatment	Disposal facility
Solid Waste Debris	6/6/12	30 Cubic yards (CY)	001		WM Landfill Wyatt IN
Solid Waste Debris	6/8/12	30 CY	002		WM Landfill Wyatt IN
Haz Waste Debris	6/18/12	25 CY	004354475FLE		Envirosafe Services of Ohio, Oregon Ohio
Solid Waste Debris	6/21/12	30 CY	003		WM Landfill Wyatt IN
Haz Waste Debris	6/26/12	30 CY	004354473 FLE		Envirosafe Services of Ohio, Oregon Ohio
Solid Waste Debris	6/29/12	30 CY	004		WM Landfill, Wyatt IN

Haz Waste Debris	7/03/12	25 CY	004354477FLE		Envirosafe Services of Ohio, Oregon, Ohio
Solid Waste Debris	7/12/12	30 CY	005		WM landfill, Wyatt, IN
Solid Waste Debris	7/18/12	30 CY	006		WM landfill, Wyatt, IN
Cyanide Waste (UN 1935)	7/31/12	3440 gallons	010411950JJK		Dynecol Inc., Detroit, MI
Waste Toxic, Inorganic (UN 3288)	7/31/12	6400 pounds	010411950JJK		Dynecol Inc., Detroit, MI
Solid Waste Debris	8/02/12	30 CY	007		WM landfill, Wyatt, IN
Chromic Acid (UN 1755)	8/02/12	2700 gallons	010411037JJK		Dynecol Inc., Detroit, MI
Acid Liquid (UN 3264)	8/02/12	1475 gallons	010411037JJK		Dynecol Inc., Detroit, MI
Haz Waste Debris	8/09/12	25 CY	004354466FLE		Envirosafe Services of Ohio, Oregon, Ohio
Waste Corrosive Liquid, Basic (UN 3266)	8/10/12	4638 gallons	010411219JJK		Dynecol Inc., Detroit, MI
Acid Liquid (Nitric, Chromium, Cadmium, UN 3264)	8/10/12	1320 gallons	010411079JJK		Dynecol Inc., Detroit, MI
Waste Acid Liquid (Hydrochloric, Sulfuric, Chromium, UN 3264)	8/10/12	1920 gallons	010411079JJK		Dynecol Inc., Detroit, MI
Solid Waste Debris	8/15/12	30 CY	008		WM landfill, Wyatt, IN
Waste Chromic Acid (UN 1755)	8/17/12	3420 gallons	010411337JJK		Dynecol Inc., Detroit, MI
Waste Acid Liquid (Nitric, UN3264)	8/17/12	790 gallons	010411337JJK		Dynecol Inc., Detroit, MI
Hazardous Waste Solid (NA3077)	8/20/12	22 CY	005607311FLE		Michigan Disposal, Belleville, MI
Solid Waste Debris	8/20/12	30 CY	009		WM landfill, Wyatt, IN
Waste Corrosive Liquid, Basic (UN3266)	8/21/12	3249 gallons	010411359JJK		US Ecology, Detroit, MI (formerly Dynecol)
Solid Waste Debris	8/24/12	30 CY	010		WM landfill, Wyatt, IN
Cyanide Waste (UN1935)	8/27/12	1500 gallons	010413023JJK		US Ecology, Detroit, MI
Waste Toxic, Inorganic (UN3288)	8/27/12	2400 pounds	010413023JJK		US Ecology, Detroit, MI
Cyanide Waste (UN1935)	8/27/12	2200 gallons	010413024JJK		US Ecology, Detroit, MI
Non-hazardous Liquids	8/28/12	5465 gallons	010413028JJK		US Ecology, Detroit, MI
Non-hazardous Liquids	8/28/12	4967 gallons	010413027JJK		US Ecology, Detroit, MI

Solid Waste Debris	8/28/12	30 CY	011		WM landfill, Wyatt, IN
Non-hazardous Liquids	8/30/12	4717 gallons	010413049JJK		US Ecology, Detroit, MI
Hazardous Waste Liquids (NA3082)	9/05/12	3371 gallons	010413083JJK		US Ecology, Detroit, MI
Solid Waste Debris	9/07/12	30 CY	012		WM landfill, Wyatt, IN
Hazardous Waste Liquids (NA3082)	9/10/12	3086 gallons	010130168JJK		Vickery Environmental, Vickery, OH
Waste Corrosive Liquids, Acidic (UN3264)	9/10/12	1700 gallons	010413113JJK		US Ecology, Detroit, MI
Waste Corrosive Liquids, Basic (UN3266)	9/10/12	335 gallons	010413113JJK		US Ecology, Detroit, MI
Waste Corrosive Liquids, Acidic (UN3264)	9/10/12	1500 gallons	010413107JJK		US Ecology, Detroit, MI
Waste Chromic Acid (UN1755)	9/10/12	385 gallons	010413107JJK		US Ecology, Detroit, MI
Non-hazardous Liquids	9/14/12	4310 gallons	010413050JJK		US Ecology, Detroit, MI
Solid Waste Debris	9/14/12	30 CY	013		WM landfill, Wyatt, IN
Hazardous Waste Solid (NA3077)	9/18/12	15 CY	004354467FLE		US Ecology, Detroit, MI
Non-hazardous Liquids	9/19/12	4717 gallons	010413265JJK		US Ecology, Detroit, MI
Non-regulated material	9/24/12	400 pounds	010413339JJK		US Ecology, Detroit, MI
Non-Hazardous, Non D.O.T., regulated sludge, N/A	9/24/12	3140 pounds	010413339JJK		US Ecology, Detroit, MI
UN1564, RQ, Barium compounds, n.o.s., (Barium carbonate), 6,1,III	9/24/12	150 pounds	010413340JJK		US Ecology, Detroit, MI
Waste Corrosive Liquids, Basic (UN3266)	9/24/12	330 gallons	010413340JJK		US Ecology, Detroit, MI
Cyanide Waste (UN1935)	9/24/12	165 gallons	010413340JJK		US Ecology, Detroit, MI
Hazardous Waste Solid (NA3077)	9/24/12	15 CY	010413252JJK		US Ecology, Detroit, MI
Solid Waste Debris	9/25/12	30 CY	014		WM landfill, Wyatt, IN
Hazardous Waste Solid (NA3077)	9/27/12	15 CY	010413250JJK		US Ecology, Detroit, MI
Hazardous Waste Solid (NA3077)	10/01/12	18 CY	010413251JJK		US Ecology, Detroit, MI
Non RCRA Material (cyanide wastewater)	10/08/12	4811 gallons	010461892JJK		Vickery Environmental, Vickery, OH
Nonhazardous solids (Area E waste)	10/08/12	10 tons	016		WM landfill, Wyatt, IN
Solid Waste Debris	10/10/12	25 CY	015		WM landfill, Wyatt, IN
Solid Waste Debris	10/17/12	30 CY	017		WM landfill, Wyatt, IN

Waste Corrosive Liquid, Acidic (UN3264)	10/19/12	750 gallons	010413694JJK		US Ecology, Detroit, MI
Calcium Hypochlorite, Hydrated (UN2880)	10/19/12	155 pounds	010413694JJK		US Ecology, Detroit, MI
Ammonia Solution (UN2672)	10/19/12	190 gallons	010413694JJK		US Ecology, Detroit, MI
Hazardous Waste Liquid (NA3082)	10/19/12	1595 gallons	010413689JJK		US Ecology, Detroit, MI
Waste Chromic Acid (UN1755)	10/19/12	110 gallons	010413689JJK		US Ecology, Detroit, MI
Waste Corrosive Liquid, Acidic (UN3264)	10/19/12	165 gallons	010413689JJK		US Ecology, Detroit, MI
Hazardous Waste Liquid (NA3082)	10/19/12	715 gallons	010413689JJK		US Ecology, Detroit, MI
Hazardous Waste Liquid (NA3082)	10/19/12	1800 gallons	010413688JJK		US Ecology, Detroit, MI
Hazardous Waste Liquid (NA3082)	10/19/12	2100 gallons	010413688JJK		US Ecology, Detroit, MI
Hazardous Waste Liquid (NA3082)	10/19/12	900 gallons	010413688JJK		US Ecology, Detroit, MI
Cyanides, Inorganic (UN1588)	10/19/12	500 pounds	010413688JJK		US Ecology, Detroit, MI
Non-hazardous Sludge	10/19/12	275 gallons	010413691JJK		US Ecology, Detroit, MI
Non-hazardous Sludge	10/19/12	55 gallons	010413691JJK		US Ecology, Detroit, MI
Solid Waste Debris	10/22/12	30 CY	018		WM landfill, Wyatt, IN
Solid Waste Debris	10/29/12	30 CY	019		WM landfill, Wyatt, IN
Hazardous Waste Solid (NA3077)	10/31/12	25 CY	004354474FLE		Envirosafe Services of Ohio, Oregon, Ohio
Solid Waste Debris	10/31/12	30 CY	020		WM landfill, Wyatt, IN
Solid Waste Debris	11/01/12	30 CY	022		WM landfill, Wyatt, IN
Environmentally Hazardous Substance, Liquid (UN3082)	11/13/12	3,840 gallons	010733870JJK		Petro-Chem, Detroit, MI
Hazardous Waste Liquid (NA3082)	11/13/12	960 gallons	010733870JJK		Petro-Chem, Detroit, MI
Hazardous Waste Solid (NA3077)	11/15/12	21,850 pounds	006186989FLE		Michigan Disposal, Belleville, MI
Waste Sodium Hypochlorite (UN1791)	11/15/12	55 gallons	006186989FLE		Michigan Disposal, Belleville, MI
Waste Corrosive Solid, Acidic (UN3260)	11/15/12	7,500 pounds	006186990FLE		EQ Detroit, Detroit, MI
Calcium Hydroxide (Non DOT / Non RCRA Regulated)	11/15/12	2,000 pounds	006186990FLE		EQ Detroit, Detroit, MI
Waste Sulfuric Acid (UN2796)	11/15/12	165 gallons	006186990FLE		EQ Detroit, Detroit, MI
Waste Corrosive Liquid, Acidic (UN3264)	11/15/12	55 gallons	006186990FLE		EQ Detroit, Detroit, MI

Waste Sodium Hydroxide (UN1824)	11/15/12	95 gallons	006186990FLE		EQ Detroit, Detroit, MI
Waste Hydrogen Peroxide (UN2014)	11/15/12	110 gallons	006186990 FLE		EQ Detroit, Detroit, MI
Hazardous Waste Solid (NA3077)	11/15/12	600 pounds	010733992JJK		Petro-Chem, Detroit, MI
Waste Potassium Permanganate (UN1490)	11/15/12	350 pounds	010733992JJK		Petro-Chem, Detroit, MI
Waste Environmentally Hazardous Substances, Liquid (UN3082)	11/15/12	3,255 gallons	010733992JJK		Petro-Chem, Detroit, MI
Hazardous Waste Liquid (NA3082)	11/15/12	715 gallons	010733992JJK		Petro-Chem, Detroit, MI
Waste Flammable Liquid (UN1993)	11/15/12	85 pounds	010733992JJK		Petro-Chem, Detroit, MI
Waste Paint Related Material (UN1263)	11/15/12	20 gallons	010733992JJK		Petro-Chem, Detroit, MI
Waste Aerosols (UN1950)	11/15/12	20 pounds	010733992JJK		Petro-Chem, Detroit, MI
Waste Propane (UN1975)	11/15/12	2 pounds	010733992JJK		Petro-Chem, Detroit, MI
Waste Flammable Liquids (UN1993)	11/15/12	3 gallons	010733992JJK		Petro-Chem, Detroit, MI
Waste Hydrogen Peroxide (UN2014)	11/15/12	1 gallon	010733992JJK		Petro-Chem, Detroit, MI
Waste Chromic Acid Solution (UN1755)	11/15/12	1 gallon	010733992JJK		Petro-Chem, Detroit, MI
Waste Sodium Cyanide Solution	11/15/12	3 gallons	010733992JJK		Petro-Chem, Detroit, MI
Waste Potassium Cyanide, Solid	11/15/12	3 pounds	010733992JJK		Petro-Chem, Detroit, MI
Waste Glacial Acetic Acid (UN2789)	11/15/12	1 gallon	010733992JJK		Petro-Chem, Detroit, MI
Waste Ammonia Sulfide (UN2683)	11/15/12	1 gallon	010733992JJK		Petro-Chem, Detroit, MI
Waste Fluoboric Acid (UN1755)	11/15/12	1 Liter	010733992JJK		Petro-Chem, Detroit, MI
Waste Oxidizing Liquids, Toxic (UN3099)	11/15/12	10 gallons	010733992JJK		Petro-Chem, Detroit, MI
Waste Toxic Liquids, Organic (UN2810)	11/15/12	8 gallons	010733992JJK		Petro-Chem, Detroit, MI
Waste Cyanide Solutions (UN1935)	11/15/12	5 gallons	010733992JJK		Petro-Chem, Detroit, MI
Waste Perchloric Acid (UN1873)	11/15/12	1 gallon	010733992JJK		Petro-Chem, Detroit, MI
Waste Corrosive Liquids, Acidic, Organic (UN3265)	11/15/12	15 gallons	010733992JJK		Petro-Chem, Detroit, MI
Waste Corrosive Liquids, Toxic (UN2922)	11/15/12	1 Liter	010733992JJK		Petro-Chem, Detroit, MI
Waste Mercury Thiocyanate (UN1646)	11/15/12	1 Liter	010733992JJK		Petro-Chem, Detroit, MI
Waste Corrosive Liquids, Basic, Inorganic (UN3266)	11/15/12	12 gallons	010733992JJK		Petro-Chem, Detroit, MI

Waste Amines, Liquid, Corrosive, Flammable (UN2734)	11/15/12	1 gallon	010733992JJK		Petro-Chem, Detroit, MI
Cadmium Compounds, Solid (NiCd batteries) UN2570	11/15/12	2 pounds	010733992JJK		Petro-Chem, Detroit, MI
Non-regulated Material	11/15/12	300 pounds	010733992JJK		Petro-Chem, Detroit, MI
Mercury Contained in Manufactured Articles (UN2809)	11/15/12	10 pounds	010733992JJK		Petro-Chem, Detroit, MI
Hazardous Waste Liquid (NA3082)	11/27/12	385 gallons	010740976JJK		Petro-Chem, Detroit, MI
Waste Environmentally Hazardous Substances (UN3082)	11/27/12	3475 gallons	010740976JJK		Petro-Chem, Detroit, MI
Solid Waste Debris	11/29/12	30 CY	023		WM landfill, Wyatt, IN
Polychlorinated Biphenyls, solid (UN3432)	11/29/12	203 Kilograms	010741138JJK		Republic Environmental Systems, Hatfield, PA
Nonhazardous, Non DOT Regulated Sludge	11/29/12	1420 gallons	010741136JJK		Petro-Chem, Detroit, MI
Hazardous Waste Liquid (NA3082)	11/29/12	770 gallons	010741136JJK		Petro-Chem, Detroit, MI
Waste Corrosive Liquid, Basic (UN3266)	11/29/12	320 gallons	010741136JJK		Petro-Chem, Detroit, MI
Waste Corrosive Liquid, Acidic (UN3264)	11/29/12	340 gallons	010741136JJK		Petro-Chem, Detroit, MI
Waste Environmentally Hazardous Substances, Liquid (UN3082)	11/29/12	540 gallons	010741136JJK		Petro-Chem, Detroit, MI
Waste Potassium Hydroxide (UN1813)	11/29/12	850 pounds	010741136JJK		Petro-Chem, Detroit, MI
Waste Environmentally Hazardous Substances, Solid (UN3077)	11/29/12	555 pounds	010741136JJK		Petro-Chem, Detroit, MI

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

Planned removal activities on Site included:

1. Inventory and perform hazard categorization on substances contained in vats, pits, drums, and other containers;
2. Perform sampling and analysis to determine disposal options.
3. Continue to consolidate and package hazardous substances, pollutants, and contaminants for transportation and off-site disposal;
4. Dismantle and decontaminate process equipment and building components associated with the plating areas, as necessary;
5. Transport and dispose of all characterized or identified hazardous substances, pollutants, or contaminants to a RCRA/CERCLA-approved disposal facility in accordance with U.S. EPA Off-Site Rule (40 CFR § 300.440).
6. Take any other response actions to address any release or threatened release of a hazardous substance, pollutant and contaminant that the U.S. EPA OSC determines may pose an imminent and substantial endangerment to the public health or the environment.

2.2.1.2 Next Steps

Plan and prepare to complete the removal action in Spring 2013.

2.2.2 Issues

Area W is located under a structurally unsound area of the building (partial roof collapse). Future removal actions in Area W requires the removal of the collapsed roof to access the Area. Additional areas of the building are also structurally unsound with any additional loading from snowfall. Due to safety concerns to site workers, work through the winter months has been suspended. Work is expected to resume in Spring 2013.

2.3 Logistics Section

NA

2.4 Finance Section

2.4.1 Narrative

ERRS and START costs for the removal and emergency response actions will be incorporated into the project budget. For accounting purposes, the response costs will be tracked in separate subtask.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	\$1,300,000.00	\$1,195,000.00	\$105,000.00	8.08%
START	\$192,500.00	\$170,000.00	\$22,500.00	11.69%
Intramural Costs				
Total Site Costs	\$1,492,500.00	\$1,365,000.00	\$127,500.00	8.54%

* 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

The Health and Safety Plan was approved and signed by all site personnel.

2.5.2 Liaison Officer

NA

2.5.3 Information Officer:

Community Involvement Coordinator: Ginny Narsete

3. Participating Entities

3.1 Unified Command

NA

3.2 Cooperating Agencies

IDEM

City of Mishawaka

St. Joseph County Health Department

Mishawaka Fire Department

ATSDR

Federal Occupational Health

South Bend HazMat

4. Personnel On Site

The following numbers of personnel were On-Site during the reporting period:

Organization	Position	# Personnel
EPA	OSC	1
ERRS	Response Manager	1
	Chemist	0
	Foreman	0
	Laborer	2
	Field Cost	0
	Accountant	0

	Equipment Operator1	
Weston	START	0

5. Definition of Terms

Baycote	Baycote Metal Finishing Site
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CRZ	Contamination Reduction Zone
EPA	Environmental Protection Agency
ERT	Environmental Response Team
ERRS	Emergency and Rapid Response Services
FCA	Field Cost Accountant
FOH	Federal Occupational Health
HASP	Health and Safety Plan
HAZCAT	Hazardous Categorization
IDEM	Indiana Department of Environmental Management
NA	Not Applicable
OSC	On-Scene Coordinator
PolRep	Pollution Report
RCRA	Resource Conservation and Recovery Act
PRP	Potentially Responsible Party
RM	Response Manager
START	Superfund Technical Assessment and Response Team
ATSDR	Agency for Toxic Substances and Disease Registry

6. Additional sources of information

6.1 Internet location of additional information/report

www.epaossc.org/BaycoteMetalFinishing

6.2 Reporting Schedule

POLREPS will be issued upon remobilization to Site.

7. Situational Reference Materials

No information available at this time.

POLREP #24 Last Updated 2/15/2013