

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Custom Metal Finishing - Removal Polrep
Final Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #3
Final
Custom Metal Finishing
C522
Shelby, MI
Latitude: 43.6212000 Longitude: -86.3694000

To:
From: JAIME BROWN, OSC
Date: 2/24/2012
Reporting Period:

1. Introduction

1.1 Background

Site Number:	C522	Contract Number:	
D.O. Number:	CM583	Action Memo Date:	9/14/2011
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:		Operable Unit:	
Mobilization Date:	11/14/2011	Start Date:	11/14/2011
Demob Date:	2/17/2012	Completion Date:	4/10/2012
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

The Site is categorized as a Time Critical Removal Action.

1.1.2 Site Description

The Custom Metal Finishing Site is located at 763 Industrial Park Drive in Shelby, Michigan. The site building main structure is a warehouse with an office addition. The warehouse contains a plating shop, office, and an additional room.

1.1.2.1 Location

The Site is located in an industrial area and is surrounded by an industrial building to the south, a wooded area to the west, a residential building to the north, and Industrial Park Drive to the east. The geographical coordinates for the building are 43.6224 degrees north latitude and 86.3702 degrees west longitude.

1.1.2.2 Description of Threat

On July 26, 2010, Michigan Department of Environmental Quality (MDEQ) received a complaint regarding the abandoned drums at the Custom Metal Finishing Site. MDEQ staff inspected the site the next day and confirmed the presence of numerous abandoned drums, vats, and containers inside the building. MDEQ staff referred the site to its Office of Criminal Investigation (OCI). MDEQ-OCI conducted a joint criminal investigation in conjunction with U.S. EPA – Criminal Investigation Division. The criminal investigation was concluded on December 13, 2010 and MDEQ referred the site to U.S. EPA – Emergency Response Branch for assessment and removal.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

The building at the site was found to contain uncontrolled hazardous wastes (including containers labeled hexavalent chromium, cyanide solution, sodium cyanide, muriatic acid, sulfuric acid, and cyanide copper). Numerous vats, drums, and small containers of various sizes were found opened and unlabeled both inside the buildings and around the grounds. Eight gasoline containers were observed on-site containing what appeared to be plating waste. U.S. EPA quantified the containers on-site that included seventy-two 55-gallon drums, seven vats, and multiple other small containers. Four waste liquid samples were collected yielding pH results that were characteristically hazardous or TCLP levels that were characteristically hazardous according to the characteristic of corrosivity and toxicity as defined by 40 C.F.R. § 261.22 and 261.24.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

2.1.2 Response Actions to Date

During the week of January 3, 2012 ERRS worked on cutting poly liners from Vats numbered 2, 3, 5, and 9. The liners were discarded in a hazardous roll-off. Vats numbered 1, 2, 3, 5, 10, and 190 were cleaned. Also vats numbered 7, 8 and 9 contained solids on the walls that the crew scrubbed using surfactant and pressure rinsing. During this week a sample of cyanide from non-virgin cyanide solid drums was taken and items 151, 152 and 144 were repackaged in DOT approved buckets for shipping after regulated solids were found. Stained and contaminated wood pallets were demolished and also placed in a hazardous roll-off.

During the week of January 16, 2012 ERRS crew washed the main floor and washed out the electrical room and drum storage room for relocation of washed drums. Small 5-gallon acid containers were consolidated and acid drums were transferred to new containers with the empty drums being demolished. The cleaned vats were moved to the van trailer behind the trailer. Metal shelving from the southwest corner of the main room was removed and washed. Rinse water was collected in tote 194. HazCat samples were poured off and mercury switches were collected. The 2nd RFQ for drum disposal was completed and distributed. PSC roll-off #06 was shipped to Petrochem Processing in Detroit, MI on January 20, 2012. Drums were also labeled during this week.

During the week of January 23, 2012 ERRS crew cut up the steel shelving and table using a torch and removed debris from the upper level and transferred it into a non-hazardous roll-off. Drums were being prepared for shipment and vats were completely demolished. The lab room was cleaned out and washed and the cyanide drums were moved in. The scrap metal was transferred to a roll-off and shipped to Uganski. The main room and the upper level were washed out. The concrete pad on west side of the building. ERRS decontaminated their equipment and demobilized equipment that was no longer needed.

During the week of January 30, 2012 ERRS crew demolished a concrete vat and put it in a non-hazardous roll-off. Non-DOT empty drums and the wood entry way to the electrical room were also demolished and placed in a non-hazardous box. The crew washed the walls and floor and collected the rinse water. The office in the building was cleaned out and the debris was put in a non-hazardous box. Drums were being prepared for shipment and moved to the drum storage area. Two coats of concrete sealer was applied to the main floor. The 4" ductwork from the electrical room was removed and placed in a non-hazardous roll-off. On February 2, 2012 55 Containers were shipped to Chemtron Corporation and a non-haz roll-off was shipped to Waste Management Autumn Hills. Hand tools and pumps were decontaminated.

During the week of February 16, 2012 ERRS loaded and shipped the remaining hazardous drums to a disposal facility. The water lines and pipes were removed, electric disconnected, and ERRS secured the building for demobilization.

Air Monitoring

START conducts daily air monitoring using the MultiRAE, VRAE with cyanide monitor and the pDR. There have been no exceedances above background level in the facility.

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

Enforcement activities are on-going.

2.1.4 Progress Metrics

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>
non-haz debris/ tires		30yd3	WMN AT3 9857		Autumn Hills
non-haz debris/ tires		30yd3	WMN AT3 9859		Autumn Hills
non-haz debris/ tires		30yd3	WMN AT3 9858		Autumn Hills
Haz Debris		25yd3	009230621 JJK		PSC Detroit/Envirosafe
Haz Debris		25yd3	009231377 JJK		PSC Detroit/Envirosafe
Scrap Box		30yd3			Uganski Recycling
non-haz debris/ tires		30yd3			Autumn Hills
non- haz office trash		25yd3	WMN AT3 9860		Autumn Hills
Waste Corrosive liquid (Sulfuric Acid)		1705 Gallons	009676233 JJK		Chemtron Corporation

non-haz (Caustic Solid)		150 Gallons	009676233 JJK		Chemtron Corporation
Waste Corrosive liquid (Copper, Zinc)		550 Gallons	009676233 JJK		Chemtron Corporation
Waste Chromium trioxide		50 Gallons	009676233 JJK		Chemtron Corporation
Toxic solid (Nickel Chloride)		5 Gallons	009676233 JJK		Chemtron Corporation
Non-Haz Non-Regulated Material (Unused Nickel Sulfate-151)		5 Gallons	009676233 JJK		Chemtron Corporation
Non-Haz Non-Regulated Material (Ortho-boric acid 144)		5 Gallons	009676233 JJK		Chemtron Corporation
Waste Corrosive liquid (Sulfuric acid)		50 Gallons	009676233 JJK		Chemtron Corporation
Waste Aerosols		50 Pounds	009608219 JJK		Petro-Chem
Waste env. haz substances (chromium,cyanide)		385 Gallons	009608219 JJK		Petro-Chem
Waste env. haz substances (cyanide)		220 Gallons	009608219 JJK		Petro-Chem
Waste Cyanides		55 Gallons	009608219 JJK		Petro-Chem
Waste environmentally hazardous substances, liquid, N.O.S. (Barium)		55 Gallons	009608219 JJK		Petro-Chem
Waste environmentally hazardous substances, liquid, N.O.S. (Silver)		715 Gallons	009608219 JJK		Petro-Chem

Acres Protected		3
Number of contaminated residential yards cleaned up	N/A	
Human Health Exposures Avoided		1,100
Number of workers on site	N/A	

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

2.2.1.2 Next Steps

None

2.2.2 Issues

None

2.3 Logistics Section

No information available at this time.

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety Officer

All on-site agencies and companies will designate 1 person for their supervisor/safety lead

A site specific Health and Safety plan is signed and on-site.

2.5.2 Liaison Officer

OSC Brown will handle all public/local/media interests at the site.

2.5.3 Information Officer

3. Participating Entities

3.1 Unified Command

No unified command. This is a time-critical site and the OSC has the lead for the project.

3.2 Cooperating Agencies

MDEQ

4. Personnel On Site

1 U.S. EPA OSC
1 ERRS RM
1 ERRS Chemist
1 ERRS EO
3 ERRS Crew
1 START

5. Definition of Terms

VOC = Volatile Organic Compound
OSC = On-Scene Coordinator
ERRS = Emergency and Rapid Response Services contractors
START = Superfund Technical Assessment and Response Team

6. Additional sources of information

No information available at this time.

7. Situational Reference Materials

No information available at this time.

POLREP #3 Last Updated 7/30/2013