

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Shantee Creek ER - Removal Polrep
Initial Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #1
Shantee Creek ER

Toledo, OH
Latitude: 41.7065259 Longitude: -83.5639800

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From: Brian Kelly, OSC

Date: 8/28/2011

Reporting Period:

1. Introduction

1.1 Background

Site Number:	C567	Contract Number:	
D.O. Number:		Action Memo Date:	
Response Authority:	CERCLA	Response Type:	Emergency
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	8/17/2011	Start Date:	8/17/2011
Demob Date:		Completion Date:	
CERCLIS ID:	OHN000510623	RCRIS ID:	
ERNS No.:		State Notification:	Yes
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

Emergency Response to a cyanide spill in Shantee Creek. The source of the spill is unknown.

1.1.2 Site Description

The Site is situated in northeast Toledo, Lucas County, Ohio and involves Shantee Creek. At the time of the initial response, the visually impacted portion of the creek spanned from approximately the intersection of West Laskey Road and Lewis Avenue, to a point east of North Detroit Avenue. Shantee Creek is a shallow drainage creek, approximately 15 feet in width, and 2 feet in depth. The North Maumee Bay of Lake Erie is located approximately 6.25 river miles east of the impacted portion of Shantee Creek.

1.1.2.2 Description of Threat

On 8/15/2011, a spill was reported in Shantee Creek to the City of Toledo by a resident/business owner who reported a orange discoloration of the water and dead fish within the creek.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

The City of Toledo collected a water sample 500 feet east of the intersection of Laskey Road/Lewis Avenue that showed 6.5mg/L cyanide. Another sample collected at North Detroit Avenue contained 1.5mg/L cyanide. The City of Toledo also found elevated levels of zinc in the water samples.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

2.1.2 Response Actions to Date

On August 17, 2011, at the request of Ohio EPA, U.S.EPA along with START and ERRS mobilized to the Site. On arrival to the Site, START began air monitoring and water quality measurements at five monitoring locations placed along Shantee Creek, spanning from North Detroit Avenue to just east of the West Laskey Road/Lewis Avenue intersection. START monitored the ambient air for levels of CO, VOC, LEL, H2S, O2, HCN, and NH3 and monitored water quality for pH, temperature, conductivity, and DO. The ERRS deployed air sparging within Shantee Creek (just east of N.Detroit Ave) to aid in the removal of cyanide in water.

On August 18, 2011, START collected 10 water samples along Shantee Creek, spanning from just east of the West Laskey Road/Lewis Avenue intersection to the Raintree Village trailer park at Raintree Parkway and East Alexis Road, which showed a drop in cyanide to less than 1 mg/L. In addition, START and ERRS walked Shantee Creek from North Detroit Avenue to the intersection of West Laskey Road/Lewis Avenue collecting water quality measurements and noting any discolored water, fish kills, or observations of importance - no source was identified.

Ohio DNR, which had documented fish kills earlier in the week, found no new fish kills, and reported healthy fish had returned to the previously impacted areas.

2.2 Planning Section

2.2.1 Anticipated Activities

Continue to Investigate the cause of the release.

2.2.1.1 Planned Response Activities

- Work with the City of Toledo to camera survey the sewer system at the intersection of Lewis Avenue and Laskey Road.
- Conduct additional sampling to identify the release area.

2.2.2 Issues

The source remains unknown. If the release was a onetime dump, identification may not be possible.

2.3 Logistics Section

N/A

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

No information available at this time.

3. Participating Entities

3.1 Unified Command

3.2 Cooperating Agencies

U.S.EPA
Ohio EPA
City of Toledo
Ohio DNR - Wildlife Division

4. Personnel On Site

U.S.EPA
Ohio EPA
Ohio DNR - Division of Wildlife
City of Toledo
Weston Solutions Inc (START)
EQM - Environmental Quality Management (ERRS)
Inland Waters (ERRS)

5. Definition of Terms

U.S. EPA - United States Environmental Protection Agency
DNR - Department of Natural Resources
START - Superfund Technical Assessment and Response Team
ERRS - Emergency and Rapid Response Service
CO - carbon monoxide
VOC - volatile organic compounds
H2S - hydrogen sulfide
LEL - lower explosive limit
O2 - oxygen
HCN - hydrogen cyanide
NH3 - ammonia
DO - dissolved oxygen
pH - potential hydrogen

6. Additional sources of information

No information available at this time.

7. Situational Reference Materials

No information available at this time.