

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Mid-Valley Pipeline Crude Oil Release - Removal Polrep
Final Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #6
Final
Mid-Valley Pipeline Crude Oil Release
E14510
Cincinnati, OH
Latitude: 39.2598727 Longitude: -84.6656010

To:
From: Steven Renninger, OSC
Date: 4/2/2014
Reporting Period: March 29 through 31, 2014

1. Introduction

1.1 Background

| | | | |
|----------------------------|-----------|--------------------------------|-----------|
| Site Number: | Z5MZ | Contract Number: | |
| D.O. Number: | | Action Memo Date: | |
| Response Authority: | OPA | Response Type: | Emergency |
| Response Lead: | PRP | Incident Category: | |
| NPL Status: | Non NPL | Operable Unit: | |
| Mobilization Date: | 3/18/2014 | Start Date: | 3/18/2014 |
| Demob Date: | 3/31/2014 | Completion Date: | 3/31/2014 |
| CERCLIS ID: | | RCRIS ID: | |
| ERNS No.: | | State Notification: | OEPA |
| FPN#: | E14510 | Reimbursable Account #: | |

1.1.1 Incident Category

Emergency Response

1.1.2 Site Description

The Mid-Valley Pipeline carrying crude oil from Hebron, Kentucky to Lima, Ohio released product into an un-named stream leading into a roadside pond along East Miami River Road and adjacent to the Great Miami River. The crude oil was contained within the pond. No observable product or sheen has been identified on the Great Miami River, which is located approximately 1,500 feet west of the pond. The pipeline is operated by Sunoco Pipeline LP and was shut down at 2232 hours on March 17th (restarted on March 23). The 20-inch pipeline was installed in 1950. It was initially estimated that approximately 240 barrels (approximately 10,000 gallons) were released to the stream and pond. Approximately 1 mile of stream was impacted with crude oil. Sunoco revised the spill amount to 500 barrels (21,000 gallons) on March 21, 2014.

1.1.2.1 Location

The Site is located within the Oak Glen Nature Preserve and two private parcel lots on East Miami River Road in Colerain, Ohio. The stream runs down a steep hillside into a pond located across the street from a stone quarry located at 8953 East Miami River Road. A command post was established on East Miami River Road (at Dravo Park) north of the pond. Sunoco Logistics/Mid-Valley has obtained signed access agreements with Great Parks of Hamilton County and numerous private land owners. Oak Glen Nature Preserve representatives (Great Parks of Hamilton County) and Colerain Township representatives were onsite 3/18/14 and are part of Unified Command.

1.1.2.2 Description of Threat

There was a confirmed release of approximately 21,000 gallons of crude oil into a stream which discharges into a pond within the Oak Glen Nature Preserve. Due to the quantity of crude oil released and proximity to the Great Miami River, there is a threat of a release to the Great Miami River.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

On March 18, EPA OSC Renninger, Ohio EPA OSC Dale Farmer, Ohio EPA OSC Bill Lohner, EPA's START contractor, and Sunoco Logistics/Mid-Valley walked about a mile from the pond and along the stream and ending at the pipeline discharge point, which is located where the Mid-Valley pipeline crosses the stream.

Visible crude oil was observed on the surface of the pond and along the approximately 1-mile stretch of stream bed. The terrain around the impacted stream is heavily wooded and steep. Heavy pockets of crude

oil was observed at numerous locations within the stream.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

A **Unified Command** was established with EPA, Ohio EPA, Great Parks of Hamilton County, Colerain Township and the responsible party (RP) Sunoco Logistics/Mid-Valley. The RP has contracted with SWS Environmental Services, Clean Harbors, Environmental Restoration, Clean Venture, Dillon, and McCutcheon to conduct product recovery and clean-up operations. OTIS and DOT were on site to assess and temporary repair the damaged pipeline. In addition, Hull & Associates (Hull) has been contracted as its environmental consultant. Hull is conducting air monitoring and is leading the environmental assessment efforts. A command post was established in the parking lot of Dravo Park, north of the pond. Coordinating agencies can be found in Section 3.

The following 4 working zones were established:

- Zone 1 - This is the area where the pipeline breach occurred.
- Zone 2 - This the 1-mile stream section impacted by crude oil from the pipeline break (Zone 1) to the influent of the underflow dam. Zone 2 is divided into 9 segments (Zones 2A-01, 2A-02, 2B-01L, 2B-01R, 2B-01-SEEPAGE, 2B-02, 2C-01, 2C-02 and 2C-03).
- Zone 3 - Begins at the outflow of the underflow dam and includes the pond where the crude oil was initially discharged into.
- Zone 4 - This is the area west of the pond (Zone 3) towards the Great Miami River.

A map showing the work zones has been uploaded into the Documents Section of the website.

2.1.2 Response Actions to Date

For response actions on March 18, 2014, see POLREP 1.

For response actions on March 19 and 20, 2014, see POLREP 2.

For response actions on March 21, see POLREP 3.

For response actions on March 22-24, see POLREP 4.

For response actions on March 25-28, see POLREP 5.

March 29, 2014

Response working under a 72-hour operational period and IAP.

Zone 1

No operations conducted in Zone 1. Pipeline reopened on March 23, 2014.

Zone 2

1.3 inches of rainfall fell, causing the stream velocity to be approx 500 gallons per minute. The high velocity in the stream pushed oil and oil-contaminated leaves and debris to the underflow dam, where it was eventually collected by Operations.

Zone 3

Operations contained and removed oil-contaminated debris within the pond.

Hull collected surface water samples for laboratory analysis from two locations on the pond on a daily basis. Hull also collected a water sample from the discharge water from the underflow dam outlet.

Air sparging operations continued, as three aerators were placed and operating into the pond.

Zone 4

Daily inspections continue with no oil or sheen observed.

Other Information

EPA START contractor was on site to assist with assessment, documentation, sampling and monitoring activities.

Hull suspended roto sonic drilling operations due to safety concerns from the weather. Drilling operations to resume tomorrow.

The Environmental Unit reported that tankers of liquid waste and rolloff boxes of oil-contaminated solid waste were shipped for off-site disposal. Rolloff boxes containing oil-contaminated sorbents and PPE and rolloff boxes containing oil-contaminated soil are being shipped for off-site disposal to the Franklin County Sanitary Landfill, located in Grove City, Ohio. Recovered oil is being pumped into tanker trucks and shipped to Sunoco's Hebron, KY facility.

An air monitoring plan continued to be implemented. 11 air sampling locations being monitored. No issues with elevated VOCs being observed.

The Wildlife/Sensitive Species Plan for managing wildlife encountered continued to be implemented. Cardno ENTRIX implementing the Salamander Habit and Survey Action Plan. Tri-State Bird & Rescue on site to assess and respond to any animals discovered which are impacted.

March 30, 2014

Response working under a 72-hour operational period and IAP.

Zone 1

No operations conducted in Zone 1.

Zone 2

SCAT team conducted a detailed assessment of each segment on the stream. The assessment was provided to the UC and Operations and included observations and treatment recommendations on the stream.

Operations continued recovering oil and oil-debris at the underflow dam. Hull to design and construct a larger underflow dam.

Zone 3

Operations contained and removed oil-contaminated debris within the pond and the stream section between the pond and the underflow dam.

Hull collected surface water samples for laboratory analysis from two locations on the pond on a daily basis. Hull also collected a water sample from the discharge water from the underflow dam outlet.

Air sparging operations continued, as three aerators were placed and operating into the pond.

Zone 4

Daily inspections continue with no oil or sheen observed.

Other Information

EPA START contractor was on site to assist with assessment, documentation, sampling and monitoring activities.

Hull using roto sonic drilling to install groundwater monitoring wells around the site. 9 of 9 wells have been installed with OEPA oversight.

An air monitoring plan continued to be implemented. 11 air sampling locations being monitored. No issues with elevated VOCs being observed.

The Wildlife/Sensitive Species Plan for managing wildlife encountered continued to be implemented. Cardno ENTRIX implementing the Salamander Habit and Survey Action Plan. Tri-State Bird & Rescue on site to assess and respond to any animals discovered which are impacted. 55 total wildlife collected and assessed.

Logistics reported that about 40 pieces of equipment and some labor force were demobilized. Equipment is being decontaminated at the decontamination pad prior to demobilization.

March 31, 2014

Emergency operations being transitioned into Remediation operations. Ohio EPA to oversee remediation operations. Once remediation operations are completed, restoration operations will be conducted. Great Parks of Hamilton County will oversee restoration activities.

EPA demobilized mobile command post and all personnel following 1600 hours UC briefing.

Zone 1

No work was conducted in Zone 1. Permanent repair of the pipeline to be completed this Spring.

Zone 2

SCAT team conducted a detailed assessment of each segment on the stream. The assessment was provided to the UC and Operations and included observations and treatment recommendations on the stream. Per the Zone 2 Exit Plan, SCAT and Ohio EPA will be conducting the inspection of the stream once Operations feels a segment of stream meets Zone 2 criteria and, if necessary, approval for release.

Operations aggressively removed debris in the stream, especially segments 2A-02, 2B-01R and 2B-01L. SCAT described a new segment called 2B-01-SEEPAGE. This area is showing oil seeping up through the ground surface. Cardno ENTRIX to determine local geology to determine if there is a subsurface pathway.

Operations continued recovering oil and oil-debris at the underflow dam. Hull to design and construct a larger underflow dam.

Zone 3

Manual removal of residual oil and sheen and debris continued at the pond. Operations continued to clean oil debris from stream section between the pond and the underflow dam.

Hull collected surface water samples for laboratory analysis from two locations on the pond on a daily basis. Hull also collected a water sample from the discharge water from the underflow dam outlet.

Air sparging operations continued, as three aerators were placed and operating into the pond.

Zone 4

Daily inspections continue with no oil or sheen observed.

RECOVERY UPDATE

Total liquid recovery was 37,850 gallons (oil and water), of which 18,693 gallons was oil.

Other Information

EPA START contractor continued assisting with assessment, documentation, sampling and monitoring activities (Field Observer).

Hull completed roto sonic drilling to install 9 groundwater monitoring wells around the site. The wells will be developed and sampled for BTEX analysis.

An air monitoring plan continued to be implemented. 11 air sampling locations being monitored. No issues with elevated VOCs being observed.

The Wildlife/Sensitive Species Plan for managing wildlife encountered continued to be implemented. Cardno ENTRIX implementing the Salamander Habit and Survey Action Plan. Tri-State Bird & Rescue on site to assess and respond to any animals discovered which are impacted. 57 total wildlife captured and assessed.

Environmental Unit reported additional waste being shipped off site. 6 rolloff boxes remain on site and are awaiting shipment for disposal.

Logistics signed a lease for office space at a facility approximately 5 miles from the current command post. The current command post tents will be cleaned out by Friday April 4th and will be demobilized on Saturday April 5th by Hamilton County.

RP estimated 82 total people on site.

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

Sunoco Pipeline LP and Mid-Valley Pipeline are the responsible parties. A Notice of Federal Interest was issued by OSC Renninger to Sunoco Pipeline LP representatives at 0800hrs on 3/18/2014.

2.1.4 Progress Metrics

| <i>Waste Stream</i> | <i>Medium</i> | <i>Quantity</i> | <i>Manifest #</i> | <i>Treatment</i> | <i>Disposal</i> |
|---|----------------------|------------------------|--------------------------|-------------------------|---|
| Oil-contaminated sorbents, debris & PPE | Solid | 12 rolloff boxes | | Landfill | Franklin County Sanitary Landfill Grove City, Ohio |
| Oil-contaminated soil | Solid | 17 rolloff boxes | | Landfill | Ohio Soil Recycling Columbus, Ohio |
| Oil | Liquid | 18,693 gallons | | Re-use | Sunoco Hebron, Kentucky |
| Water | Liquid | 19,157 gallons | | Treatment | Valicor Cincinnati, Ohio |

2.2 Planning Section

2.2.1 Anticipated Activities

EPA

No further action.

Ohio EPA

Oversee Remediation Phase activities.

Great Parks of Hamilton County

Oversee Remediation and Restoration activities.

RP to reimburse Great Parks of Hamilton County for costs associated with the release.

RP

Remediation Phase Command post now located at 10967 Hamilton Cleves Pike Road, Harrison, Ohio.

Continue aeration (air sparging) operations in the pond. Three aerators are being utilized.

Conduct thermal treatment operations in Zone 2, as directed by OEPA.

Complete the Zone 2 and Zone 3 Exit Plans.

Construct and install a larger underflow dam on the stream.

Continue skimming/vacuum operations at the underflow dam

Continue perimeter air monitoring, as needed

Continue disposal of site-related waste

Complete monitoring well sampling and report and submit to OEPA.

2.2.1.1 Planned Response Activities

See Section 2.2.1.

2.2.1.2 Next Steps

See Section 2.2.1.

2.2.2 Issues

Security

The security badging process has been fully implemented. All personnel are required to have a badge and as they enter the site, the badges are scanned.

Wildlife Recovery Efforts (as of March 28th)

46 total wildlife captured
23 wildlife required cleaning
14 wildlife have been released
12 wildlife were found dead
2 wildlife were euthanized
6 wildlife died while in the rehabilitation facility

2.3 Logistics Section

EPA mobilized a mobile command vehicle and two ATVs to the command center location. All items demobilized on March 31st.

Hamilton County provided three tents for response meetings/support. Tents to be demobilized on Saturday April 5th. Sunoco will replace tent flooring.

The Incident Command Post for Emergency Response activities was located in Dravo Park on 9225 East River Road.

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety Officer

The RPs have a Safety Officer on site. A daily Health & Safety Plan was submitted with the IAP.

2.5.2 Liaison Officer

2.5.3 Information Officer

Media Briefings were conducted, as necessary. Colerain Township Steve Conn is the PIO. The final media briefing was scheduled on March 27, 2014. PIO responsibilities transferred to Great Parks of Hamilton County on March 28th.

3. Participating Entities

3.1 Unified Command

Unified Command was established with EPA, Ohio EPA, Great Parks of Hamilton County, Colerain Township and Sunoco Logistics/Mid-Valley. Sunoco Logistics mobilized an Incident Management Team (demobilized on April 1). Daily Planning Cycles terminated on March 31, 2014 to initiate Remediation Phase.

3.2 Cooperating Agencies

Hamilton County Department of Environmental Services
Hamilton County EMA
Hamilton County Public Health
Groundwater Consortium
Colerain Township FD
US Fish & Wildlife Service
U.S. Department of Transportation
Ohio Department of Natural Resources - Division of Wildlife
Hamilton County Parks

U.S. DOT PHMSA Office of Pipeline Safety was onsite and is investigating the cause of the release.

4. Personnel On Site

US EPA - 1
START - 1
Ohio EPA - 3
RP representatives and contractors - 70+

5. Definition of Terms

EPA - Environmental Protection Agency (U.S. EPA Region 5)
RP - Responsible Party
SCAT - Shoreline Cleanup Assessment Technique
START - Superfund Technical Assessment and Response Team
PIO - Public Information Officer
IAP - Incident Action Plan

6. Additional sources of information

6.1 Internet location of additional information/report

<http://www.epaosc.org/midvalleycrudeoilrelease>

6.2 Reporting Schedule

This is the last POLREP to be issued.

7. Situational Reference Materials

No information available at this time.