

US EPA ARCHIVE DOCUMENT

Source Area

Response Action Status

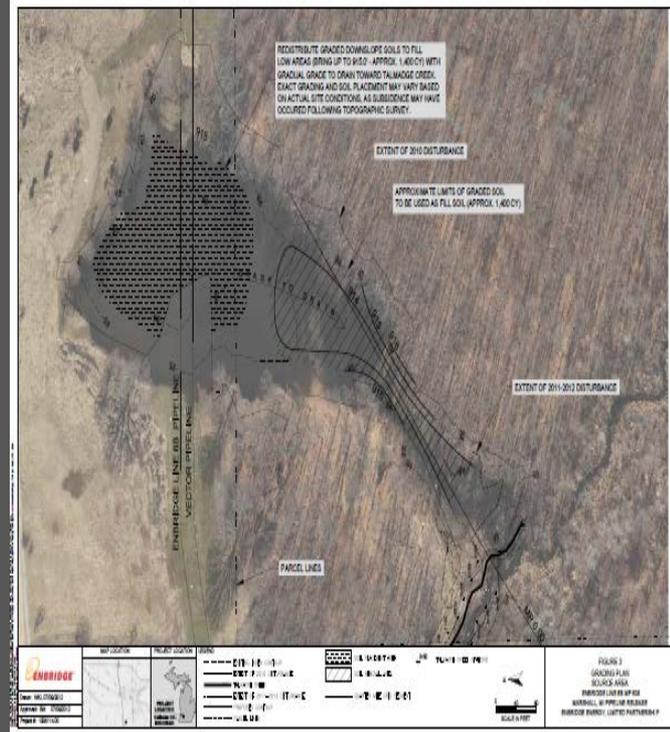


Response Action Work Plan

- Submitted July 13, 2012
- Resubmitted July 20, 2012
- Approval pending (USEPA)
- Permit Pending (MDEQ)
- Supplemental RI Complete

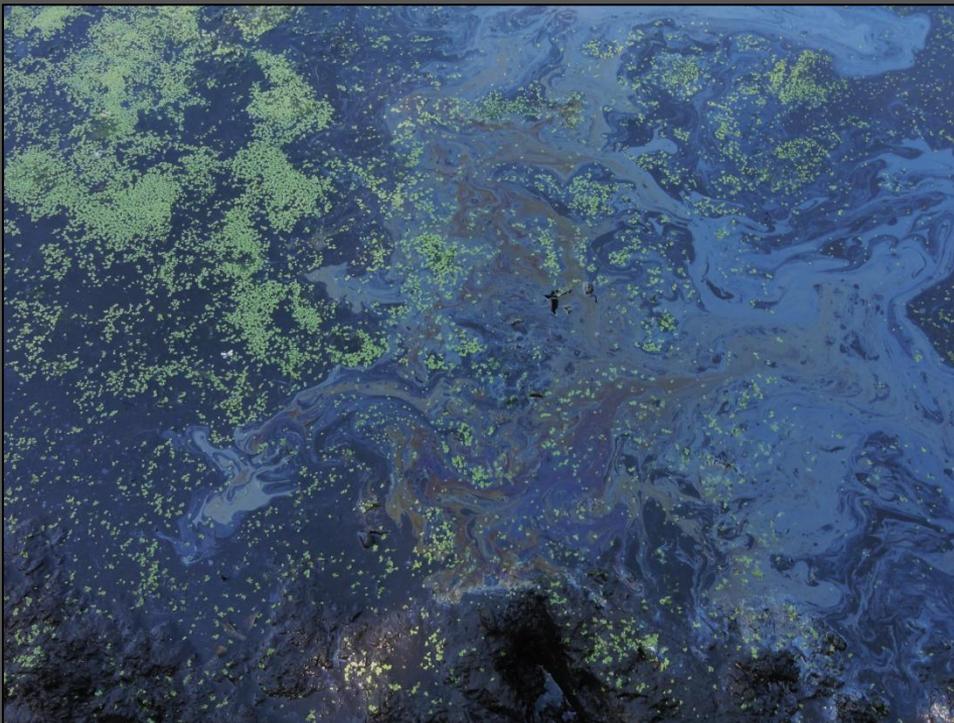
Response Outlook

- August 2012?



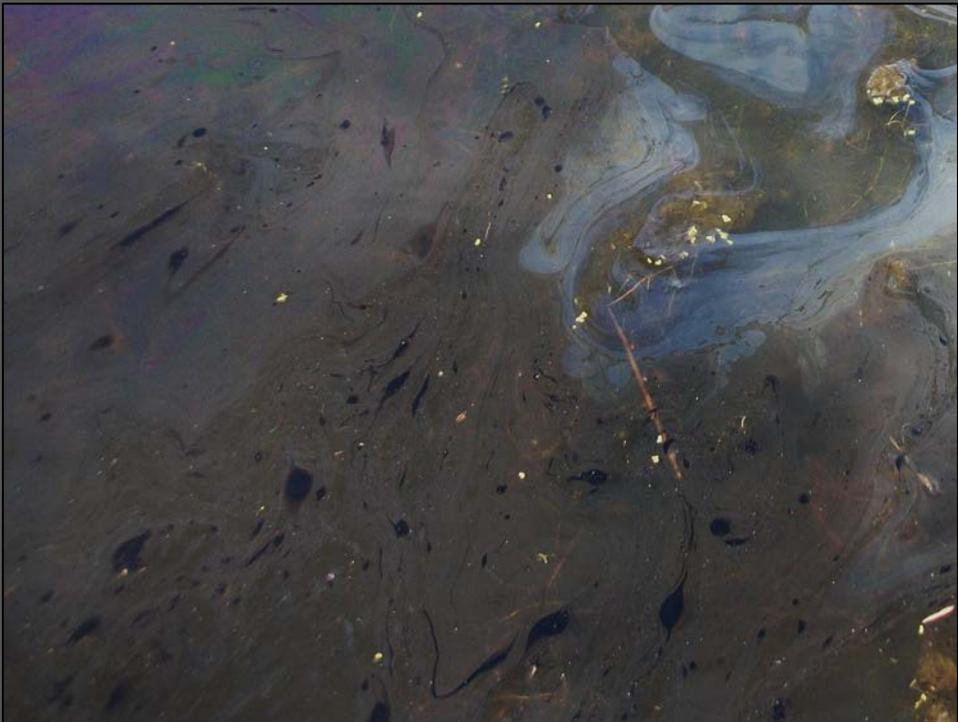
Source Area

June 7, 2012 Source Area Assessment



Source Area

June 8, 2012 Source Area
Glob Sampling



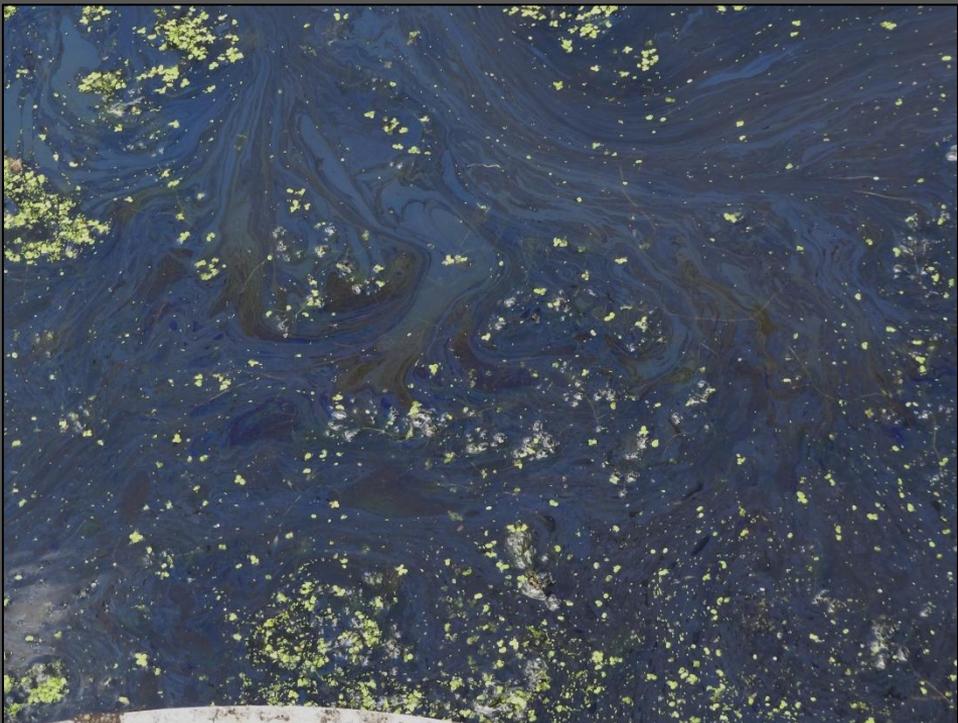
Source Area

June 20, 2012 Source Area Assessment



Source Area

June 20, 2012 Source
Area Glob Sampling



Submerged Oil Agitation Effectiveness



Locations:

- Delta Z
- Delta H
- Delta EE
- Ceresco
- MP 21.5
- MP 14.75

Progress:

Delta Z Complete?

Schedule:

Delta H?

EVALUATING THE EFFICACY AND POTENTIAL ECOLOGICAL EFFECTS OF IN-SITU SEDIMENT AGITATION (SUMMER 2012)

	Time after Agitation (hours)							
	-1.0	0.0	0.25	0.5	1.0	2.0	4.0	4.5
<i>Field Task / Measurement</i>								
Poling and associated measurements outside of enclosure	☒							
Collect depth-integrated water sample	☒	☒					☒	
Collect sheen sample	☒	☒						
Collect sediment cores (3) within cylinder and composite sediment	☒							☒
Measure turbidity within cylinder (6 inch intervals)	☒	☒	☒	☒	☒	☒	☒	☒
Measure DO within cylinder (6 inch intervals)	☒	☒	☒	☒	☒	☒	☒	☒
LISST particle size analysis	☒	☒	☒	☒	☒	☒	☒	☒
<i>Laboratory Analysis Task</i>								
TSS on depth-integrated water sample	☒	☒						☒
Oil fingerprinting on suspended solids and filtrate (filtered water) from depth-integrated water sample	☒	☒						
Oil fingerprinting on sediment core samples	☒							☒
Wet + dry bulk density, TOC on sediment core samples	☒							☒
UV fluorescence microscopy on suspended solids and sediment core samples	☒	☒						
UV fluorescence microscopy on sediment core samples	☒							☒
Oil fingerprinting on sheen sample	☒	☒						

Agitation Effectiveness

July 24, 2012 Agitation Effects Study



Agitation Effectiveness

July 24, 2012 Agitation Effects Study



Agitation Effectiveness

July 24, 2012 Agitation Effects Study



Submerged Oil Quantification



Sediment Core Collection

- Anthropogenic Channel (10 Cores)

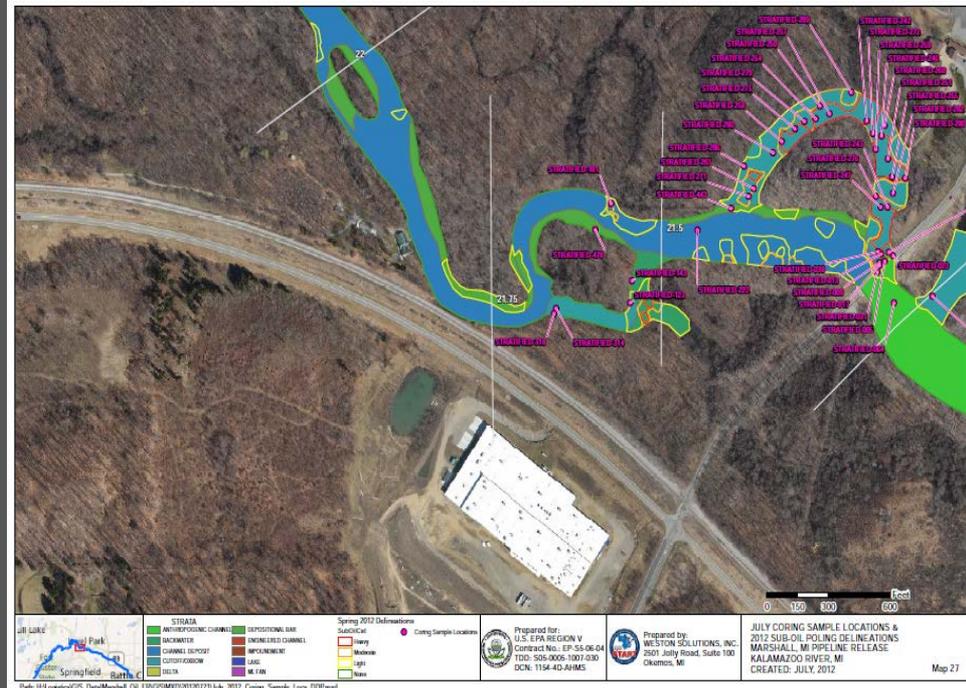
Sediment Core Logging

- 5 of 105 Cores Completed

Progress

10 % Complete

Schedule



Submerged Oil

July 23, 2012

Quantification Coring



Submerged Oil

July 24, 2012

Quantification Coring



Submerged Oil Quantification Coring Logging



Emerging Oil Management



Over-flight Observations

7/24/12

- Source Area (Oil)
- MP2.5 LDB (Bio)
- MP3.25 RDB (Bio)
- Ceresco (Oil)
- Mill Pond MP15.0 LDB (Oil)
- MP18.75 LDB (Oil)
- MP30.8 LDB (Oil/Bio)
- MP36.0 LDB (Oil)
- Morrow Lake (Oil)

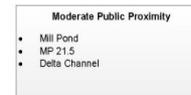
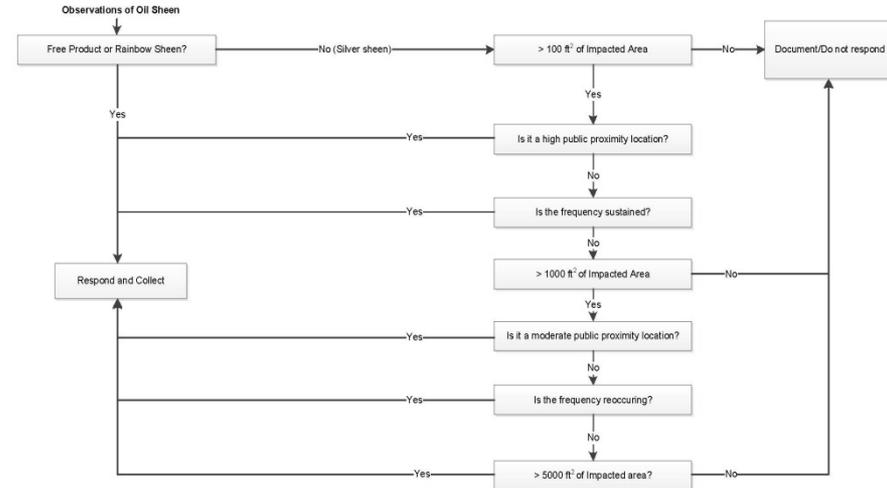
Response Criteria

Roll-Out 7/24/12

Based On:

- Oil Character
- Location
- Area
- Other Considerations

Response to Observations of Oil Sheen



Sustained: Continuous, without interruption
 Recurring: Periodic, repeated events

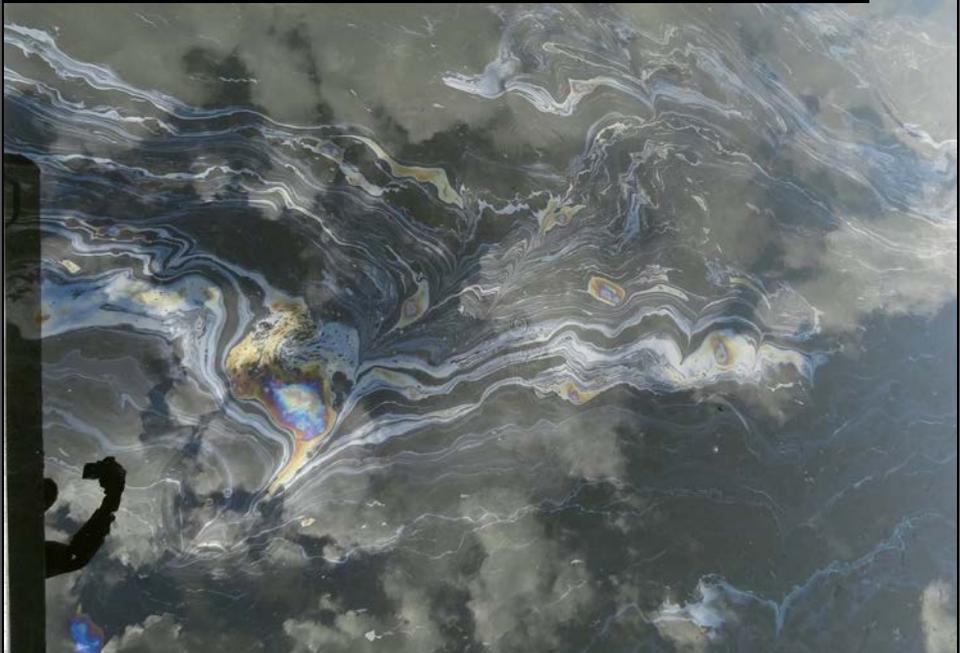
Emerging Oil Management



July 20, 2012 Ceresco Dam Sheen Management



July 18, 2012 MP5.63 Railroad Trestles Sheen



Emerging Oil Management



July 21, 2012 MP5.5 LDB



July 24, 2012 MP5.55 Sheen



Emerging Oil Management



July 24, 2012 Ceresco Dam Sheen/Sediment



July 24, 2012 Ceresco Dam Sheen/Sediment



Emerging Oil Management



July 17, 2012 MP21.5 Sheen Management



July 20, 2012 MP21.5 Sheen Observed



Emerging Oil Management



July 20, 2012 MP15.5 Sheen Management



July 20, 2012 MP15.5 Sheen Management



Emerging Oil Management



July 16, 2012 Morrow Lake Sheen



July 16, 2012 Morrow Lake Sheen



Emerging Oil Management



July 16, 2012 Morrow Lake Sheen Management



July 23, 2012 Morrow Lake Sheen Management



Containment

Ceresco Dam/E4



Ceresco Dam

E4 System

Containment

Ceresco Dam/E4



July 17, 2012 Ceresco Dam Debris Removal



July 23, 2012 Ceresco Dam Debris Removal



Containment

Ceresco Dam/E4

