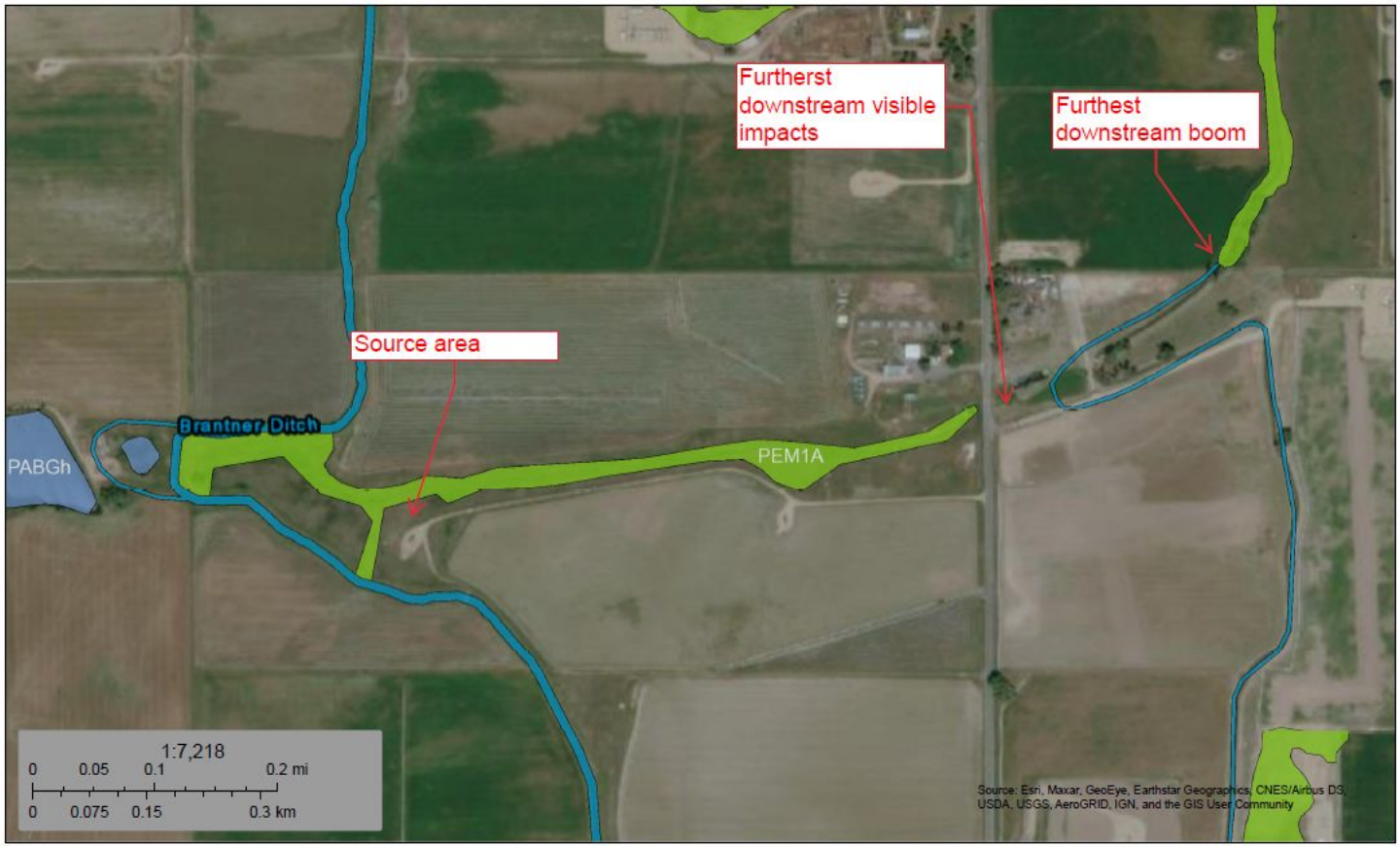
U.S. Fish and Wildlife Service
National Wetlands Inventory

Martin J Schaefer #2 Flowline Release



September 2, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Wetland Map Location Name: Martin J Schaefer #2 Flowline Spill & Wetlands Spill ID: 480698

All photos are from upstream to downstream.

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Department of Natural Resources

Inspection Photos
Location Name: Martin J Schaefer #2 Flowline Spill & Wetlands
Spill ID: 480698

Photo 1 – Release area.

Photo 2 – Hydrocarbon impacts visible; soil staining and rainbow sheen observed on water in wetland.

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Inspection Photos
Location Name: Martin J Schaefer #2 Flowline Spill & Wetlands
Spill ID: 480698

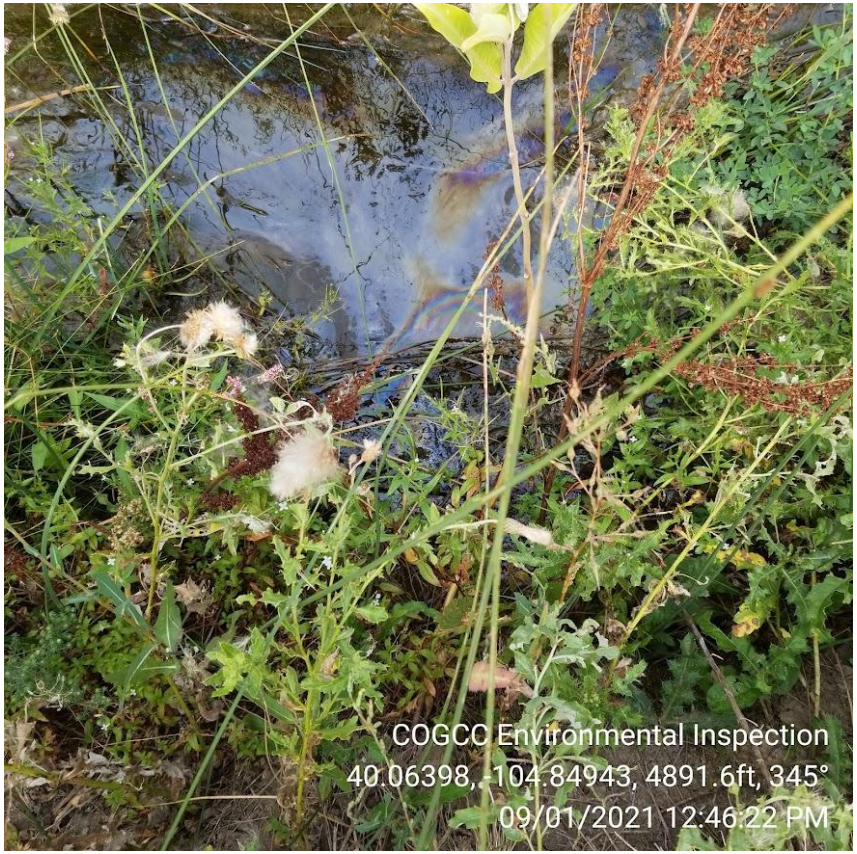

Photo 3 – Hydrocarbon impacts visible; soil staining and rainbow sheen observed on water in wetland.

Photo 4 – Boom deployed in wetland, gross free product visible.

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Inspection Photos
Location Name: Martin J Schaefer #2 Flowline Spill & Wetlands
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Photo 5 – Gross free product visible in wetland.

Photo 6 – Gross free product visible in wetland.

Inspection Photos
Location Name: Martin J Schaefer #2 Flowline Spill & Wetlands
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Photo 7 – Gross free product visible in wetland.

Photo 8 – Gross free product visible in wetland. Absorbent pad placed by operator.

Inspection Photos
Location Name: Martin J Schaefer #2 Flowline Spill & Wetlands
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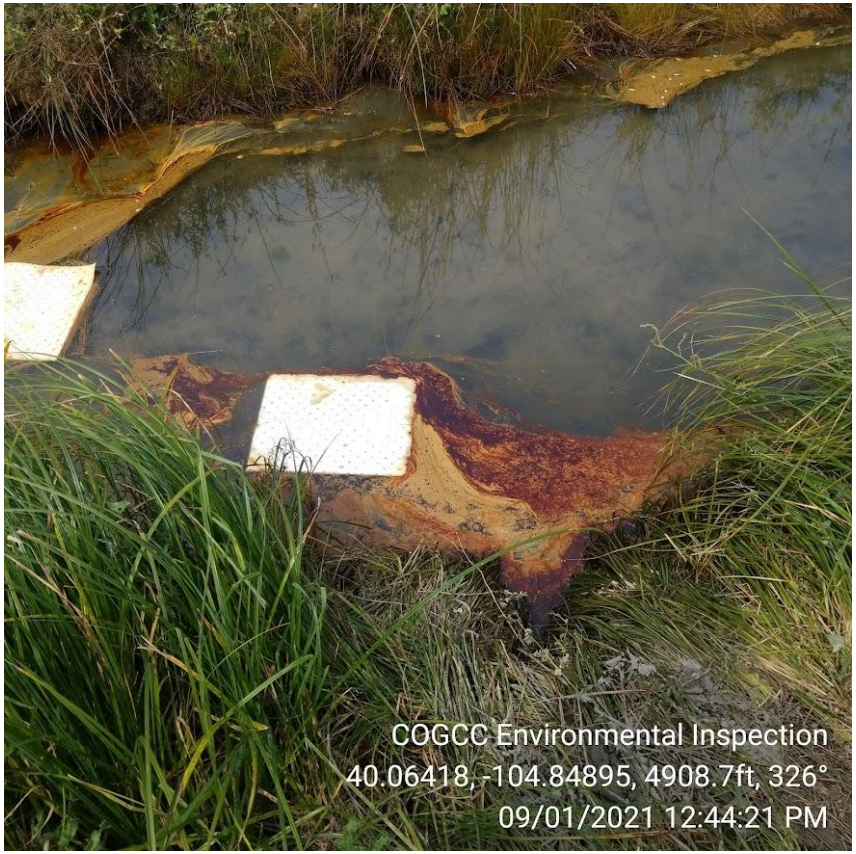

Photo 9 – Gross free product visible in wetlands, absorbent pads placed by operator.

Photo 10 – Gross free product visible in wetlands, absorbent pads placed by operator.

Inspection Photos
Location Name: Martin J Schaefer #2 Flowline Spill & Wetlands
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Photo 11 – Gross free product visible in wetlands, absorbent pads and boom placed by operator.

Photo 12 – Gross free product visible in wetlands, absorbent pads and boom placed by operator.

Inspection Photos
Location Name: Martin J Schaefer #2 Flowline Spill & Wetlands
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Photo 13- Gross free product visible in wetlands, absorbent pads and boom placed by operator.

Photo 14 –Cistern pumps adjacent to booms.

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Inspection Photos
Location Name: Martin J Schaefer #2 Flowline Spill & Wetlands
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Photo 15 – Pond and culvert. Culvert crosses under County Road 23.

Photo 16 – Pond and culvert from County road 23.

Inspection Photos
Location Name: Martin J Schaefer #2 Flowline Spill & Wetlands
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Photo 17 – Upstream of culvert; booms deployed with visible gaps under allowing product to bypass controls.

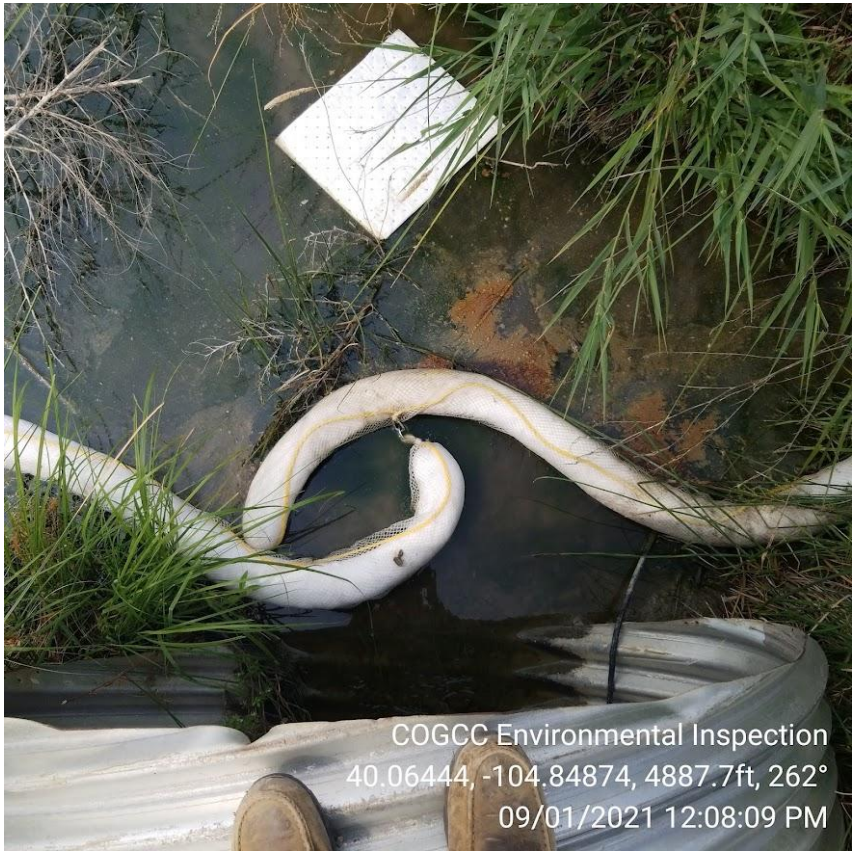

Photo 18 – Booms immediately upstream of culvert.

Inspection Photos
Location Name: Martin J Schaefer #2 Flowline Spill & Wetlands
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Photo 19 – Downstream of culvert; pond to left of photo has livestock (ducks) and receives water from wetland.

Photo 20 – Culvert under County Road 23. Hydrocarbon impacts visible.

3.2.6 | Small Watercourses | Sorbent Booms

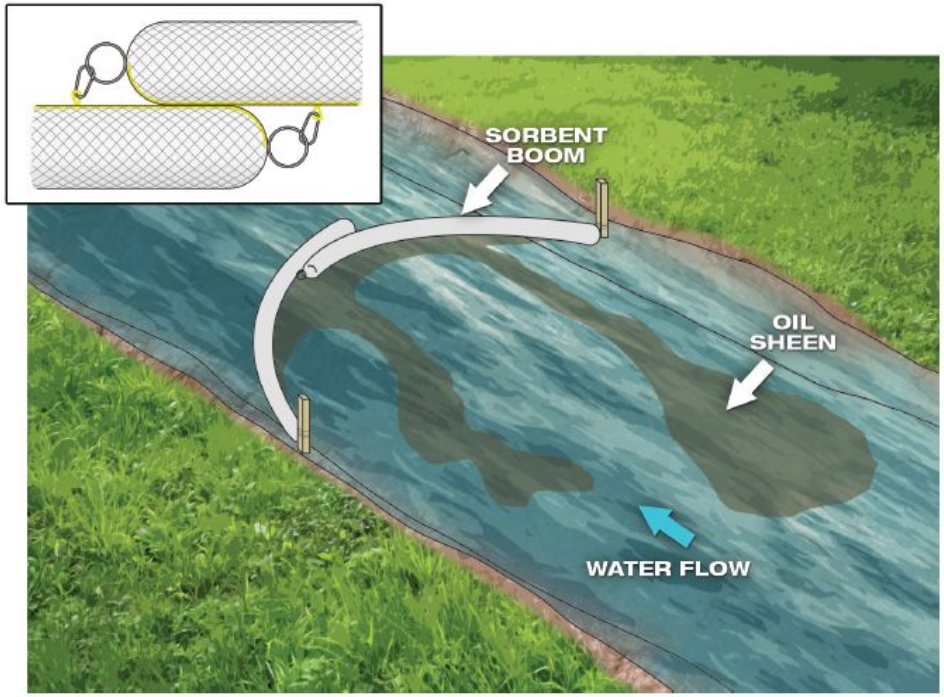

Diagram 3.2.6a Sorbent Booms

Sorbent boom installation diagram for small watercourses from EPA Inland Spill Response Tactics Guide.

3.2.6 | Small Watercourses | Sorbent Booms

Sorbent booms are oleophilic (oil-attracting), lightweight and easily handled, installed and anchored, but are not designed for longterm use or harsh, high-current conditions. They should not be left unattended for long periods.

Tip: This tactic is less effective in faster flowing water.

Purpose: To contain and recover a spill in a water-filled ditch, creek or stream.

Application: Can be used as a containment boom liner, shore-line protection and for sheen management.

Environmental Considerations: Handle and dispose of contaminated wastes in an approved manner.

Equipment Required: "Hydrocarbon-only" sorbent boom or booms as appropriate. Stakes/T-posts, shore anchors or shoreline fixtures may be used to secure the boom(s). Rope, knife, waste disposal bags and tags. Waders, safety harness and line, and PFD may be required.

Operation:

1. Clip booms together in overlapping arrangement to achieve the required length. Affix to anchor points with rope.
2. If significant amounts of product are expected, consider several installations or additional hydrocarbon-only pads and/or pillows on the upstream side.
3. Monitor and replace the contaminated sorbents as necessary.

Sorbent boom installation notes for small watercourses from EPA Inland Spill Response Tactics Guide.

Inspection Photos
Location Name: Martin J Schaefer #2 Flowline Spill & Wetlands
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Photo 21 – Boom downstream of culvert. Sample point Wetland #1.

Photo 22 – Sample point Wetland #1.

Inspection Photos
Location Name: Martin J Schaefer #2 Flowline Spill & Wetlands
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Photo 23 – Livestock pond and irrigation source for residence on east side of County Road 23.

Photo 24 – Impacts in wetland downstream of culvert.

Inspection Photos
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Photo 25 – Boom above culvert.

Photo 26 – Outlet of culvert.

Inspection Photos
Location Name: Martin J Schaefer #2 Flowline Spill & Wetlands
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Photo 27 – Boom on irrigation canal.

Photo 28 – Final boom on irrigation canal.