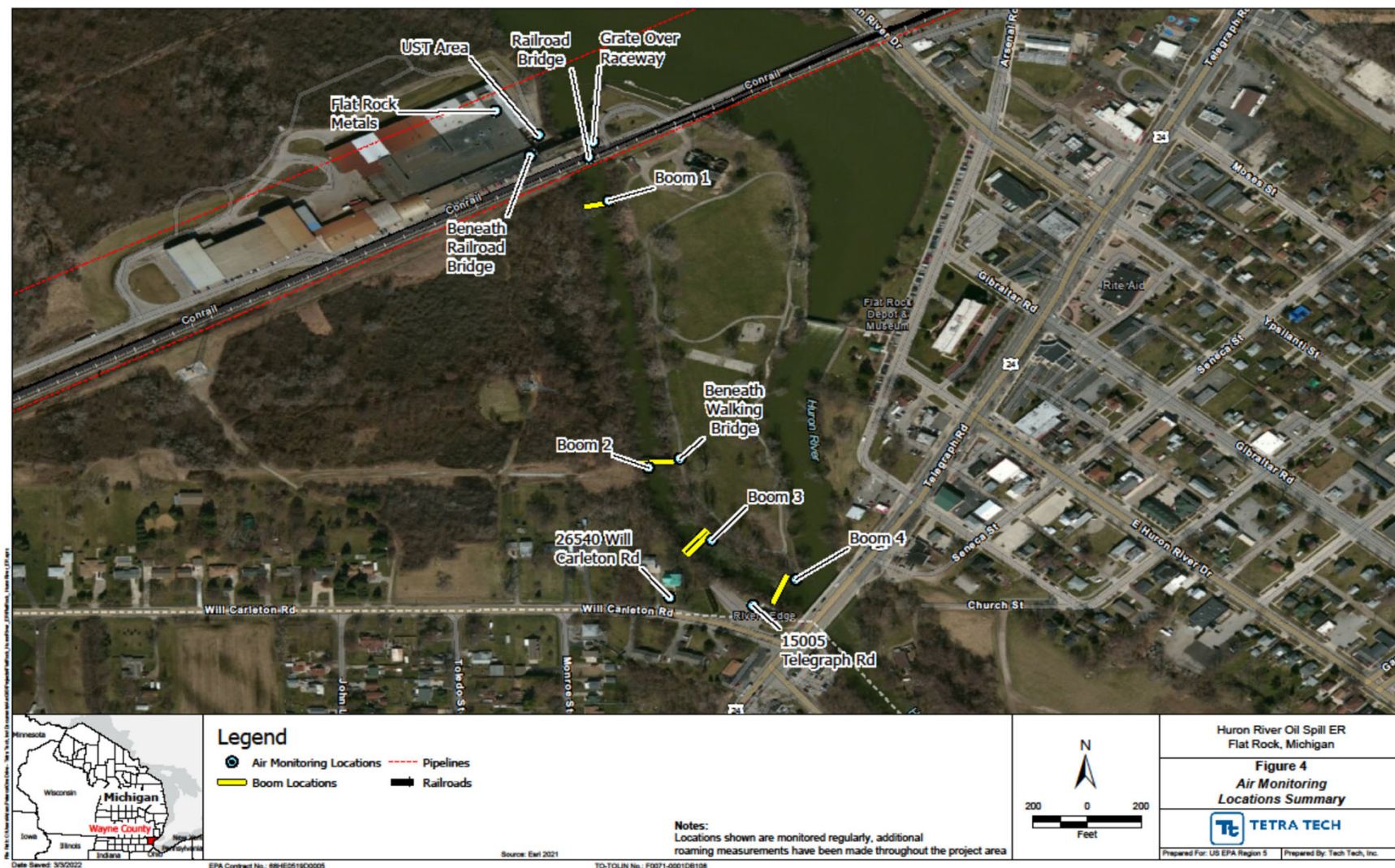


<b>Name of Incident</b>	<b>(FPN E22503) Huron River Mystery Sheen</b>
<b>Location</b>	<b>26601 W Huron River Dr, Flat Rock, MI 48134</b>
<b>OSCs Responding</b>	<b>Edwards, Gulch, Kane</b>
<b>Date</b>	<b>February 21 thru March 11, 2022</b>
<b>Type and Amount of Product Spilled</b>	<b>Weathered Fuel Oil – Potentially up 12,000 gallons – Two recovery areas established. 20,000 gallons oil/water mixture and 2,000 gallons oil/water mixture</b>
<b>Cause of Spill</b>	<b>Two 10,000-gallon underground storage tanks (USTs)</b>
<b>Key Operational Activities</b>	<b>Ensure health and safety off all responders; Occupational and community air monitoring (closest residential and commercial sensitive receptors); Contain and mitigate oil within the ‘Raceway’ to prevent downstream migration; Identify source and remove threat of continued release; Identify PRP for cost recovery</b>
<b>Agencies Involved</b>	<b>EPA Region 5, USCG NPFC &amp; MSL, City of Flat Rock FD/PD, DERT, MI EGLE (RRD and Surface Water), MDHHS, Wayne County Dept. Homeland Security &amp; Emergency Management, MI 12<sup>th</sup> Congressional District House of Representatives</b>
<b>Investigative Lessons (EPA R5 Standards)</b>	<b>Avoid ‘tunnel vision’ until point source is identified; establish multiple investigative plans from day one as resource logistics will be staggered</b>













# EPA Mobilization

- EPA mobilized START and ERRS contractors to the Site.
- ERRS conducted oversight and initiated oil recovery operations while continuing to utilize the on-site City of Flat Rock emergency response cleanup contractor
- START conducted air monitoring for VOCs and benzene on-site near booming locations and off-site at sensitive receptor locations (residences and businesses).
  - VOC measurements were detected as high as 1.05 parts per million (ppm) and benzene was detected as high as 0.55 ppm near booming locations.
- EPA met with pipeline representatives from Marathon, Utopia-Kinder Morgan, Buckeye, and Sunoco. All pipelines shutdown to conduct pressure testing. All pipelines maintained pressure in their pipelines, with no drops.
- EPA investigated the Flat Rock Metals Inc. facility and conducted air monitoring for VOCs and benzene. Elevated VOCs and benzene were documented. A sheen was discovered within the facility's basement.



Top Left: Frac tank mobilized to the Site  
Top Right: Contractors pump oil sheen to vac truck

Bottom Left: EPA mobile command post  
Bottom Right: START Contractor conducts air monitoring for VOCs near booming locations

# EPA Investigation

- ERRS and START conducted an investigation of the Raceway at the Site.
- START collected sheen net samples from the sheen on the canal and from the sheen discovered in the basement of the Flat Rock Metals facility. Sheen net samples were submitted to the US Coast Guard Marine Safety Lab for fingerprint analysis.
- START collected free product samples of the oil discovered in the sump of the Flat Rock Metals facility basement for laboratory analysis of VOCs, SVOCs, PCBs, DRO, GRO, and metals.



Top Left: Contractor prepares for Raceway investigation

Top Right: Raceway investigation

Center Left: START Contractor collects sheen net sample for fingerprint analysis

Center Right: Sheen discovered in Flat Rock Metals facility basement

Bottom: Sheen discovered in Flat Rock Metals facility basement



# EPA Investigation cont.

- START mobilized ground-penetrating radar (GPR) equipment to the Site to conduct a subsurface investigation of underground utilities and anomalies at the Site.
- A vertical vent pipe was discovered outside of the Flat Rock Metals facility. START traced underground anomalies from the vertical vent pipe to a horizontal pipe run connected to an underground storage tank (UST).
- Fuel gauges were discovered within the basement of the facility. The fuel gauges indicated two underground storage tanks with capacities of 10,000 gallons each.
- EPA issued a Notice of Federal Interest (NOFI) to Flat Rock Metals Inc. Flat Rock Metals Inc. accepted the NOFI and signed an EPA access agreement.
- As part of the NOFI, Flat Rock Metals Inc. contracted an environmental consultant firm (PM Environmental) to provide environmental services, including providing past environmental investigation reports and developing a UST investigation Work Plan and Site Safety Plan.



Top Left: Vertical vent pipe near Flat Rock Metals facility (close-up)

Top Right: Vertical vent pipe near Flat Rock Metals facility

Center: START contractor conducts subsurface investigation using GPR equipment

Bottom: Fuel gauges discovered in Flat Rock Metals facility basement











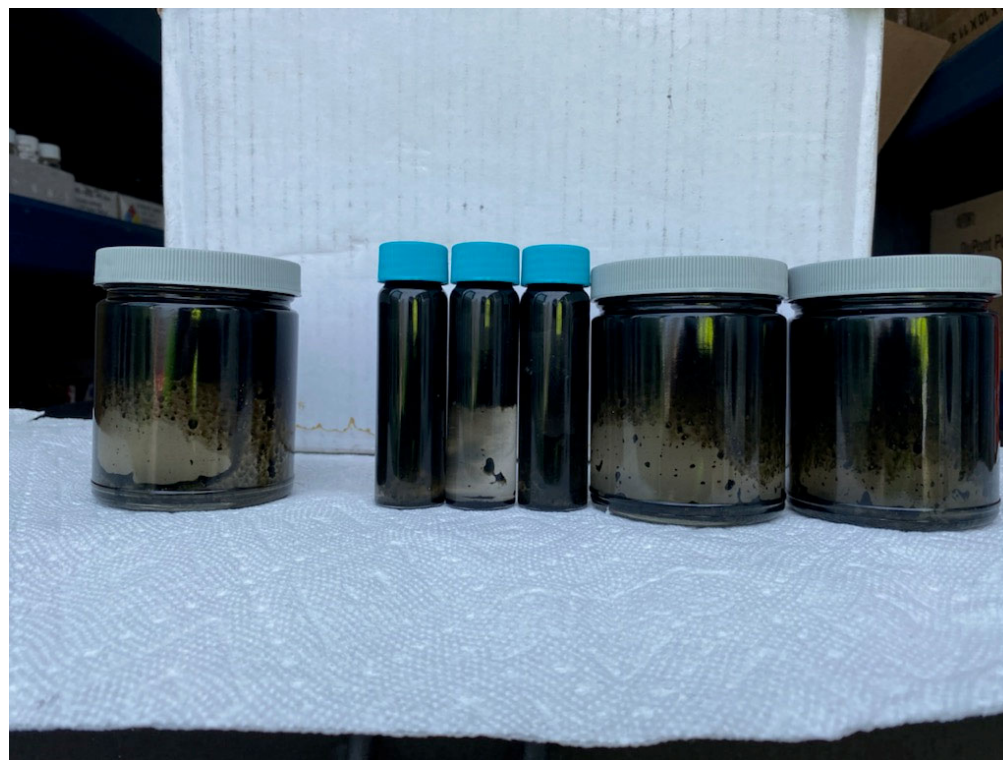




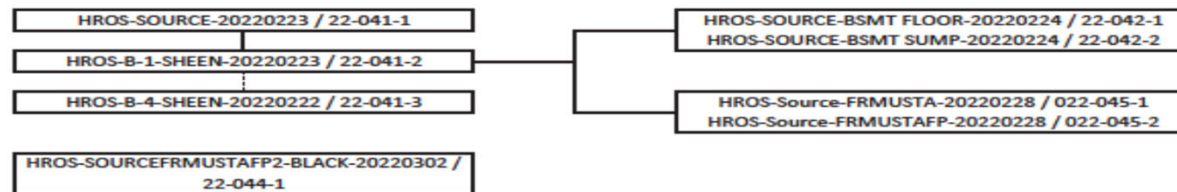








DRAFT Figure 1: Huron River Sheen ER - Oil Fingerprinting Diagram



*Notes:*

- In Same Box = Related samples with differences attributable to weathering and non-petroleum contamination.
- = Related samples with differences attributable to weathering and non-petroleum contamination.
- = Comparison inconclusive due to weathering and non-petroleum contamination.