

Preview of 2021 Activities

Grasse River Remediation Project

March 2021



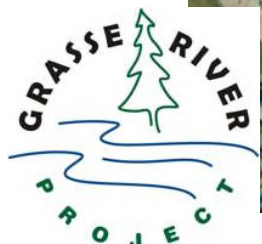
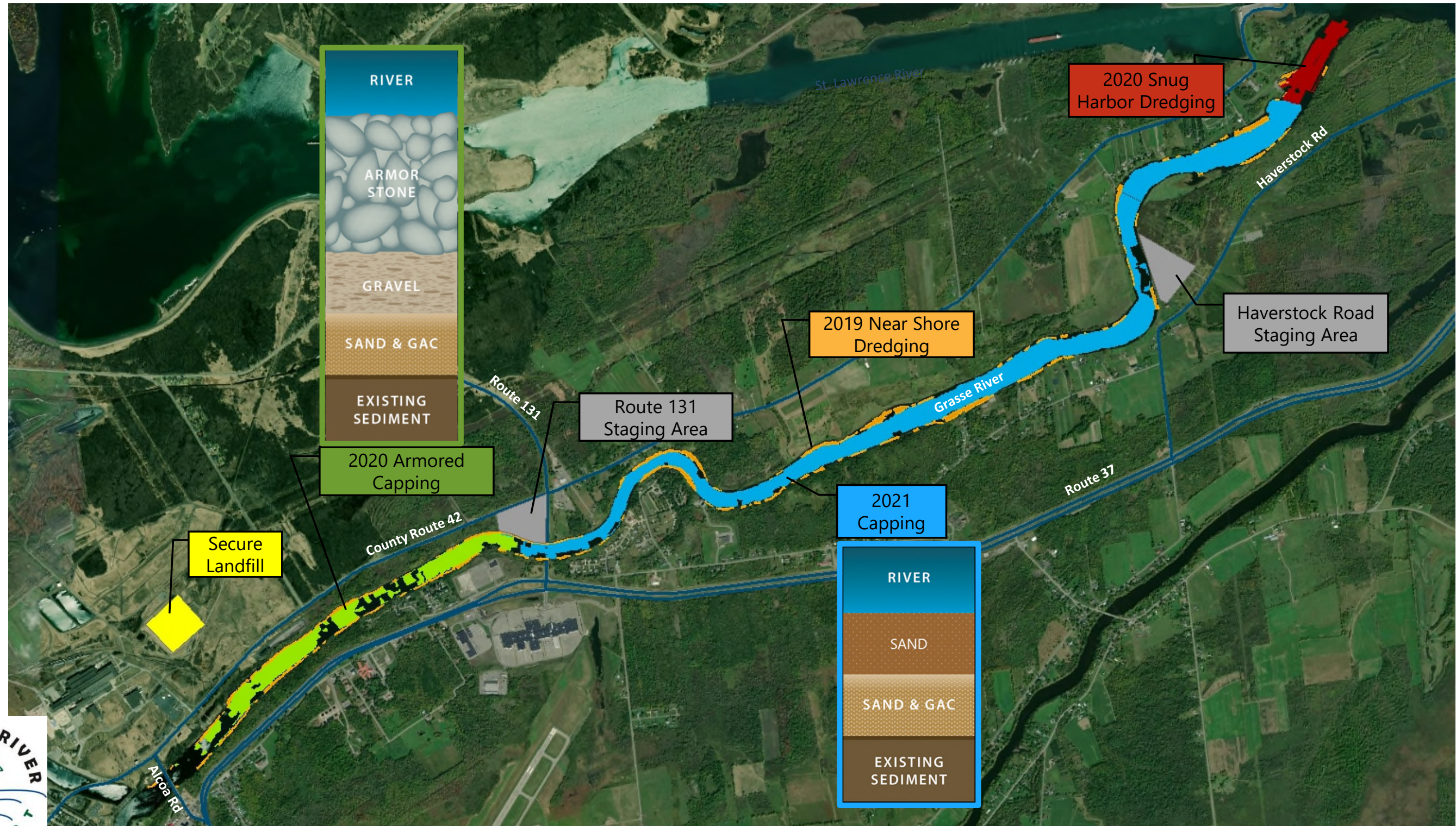
Topics to be Covered

Presentation Slide Summary

- Project overview
- Work completed in 2020
- Work targeted for 2021
- What to expect during construction
- Monitoring
- Boating and swimming safety
- Resources for more information



USEPA Selected Grasse River Remedy and General Target Schedule



Completed: 2020 Remediation In-river Construction and Replanting

Capping, Sediment Removal, and Habitat Replanting

- ❑ Armored cap completed upstream of the Route 131 Bridge with material placed over 54 acres
- ❑ Dredging completed at Snug Harbor with ~110,000 cubic yards of sediment removed from 20 acres
- ❑ Habitat replanting completed in the near shore and floodplain areas



Completed: 2020 Remediation Material Handling and Disposal

Route 131 Staging Area Material Handling and Arconic Secure Landfill Disposal

- ❑ Processed dredged material at the Route 131 Staging Area and transported to the Secure Landfill for disposal
- ❑ Handled cap materials at the Route 131 Staging Area with transport to the in-river cap areas for placement
- ❑ Constructed staging area at Haverstock Road



2020 Monitoring Results Summary

Air, Water, and Noise Monitoring Results Confirm Construction Protected Health

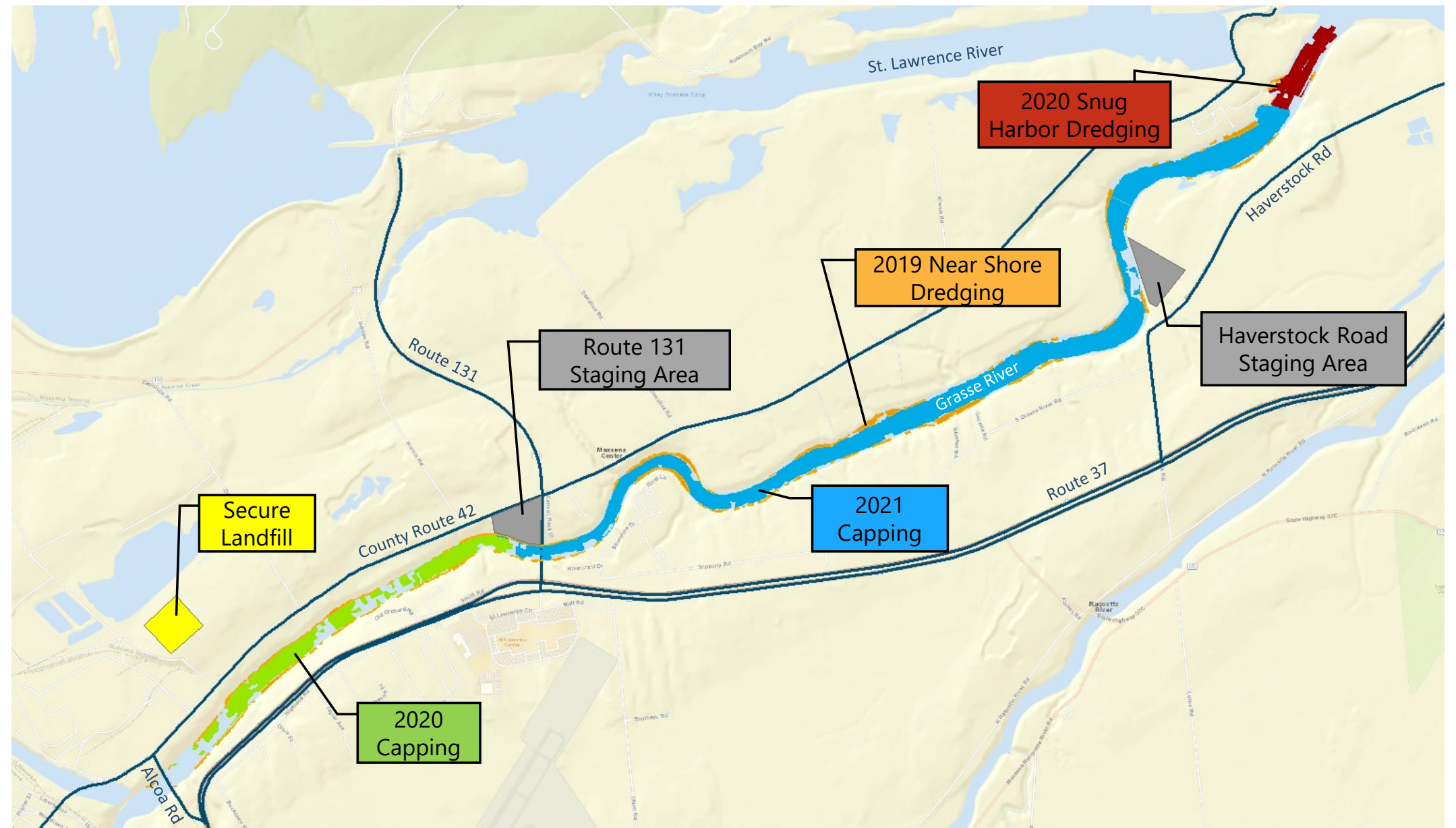
- ❑ Extensive air and water quality monitoring and results indicated the work was done in a manner protective of human health
 - Air quality measurements below criteria except for very limited number of short duration localized exceedances quickly addressed
 - Water quality measurements at the river compliance location and drinking water intakes were below established criteria
 - All sample results were below the PCB criteria
- ❑ Noise monitoring results indicated levels below established criteria at receptors



What's Next: Grasse River 2021 Remediation Activities

Capping and Material Placement/Handling and Habitat Replanting and Structure Installation

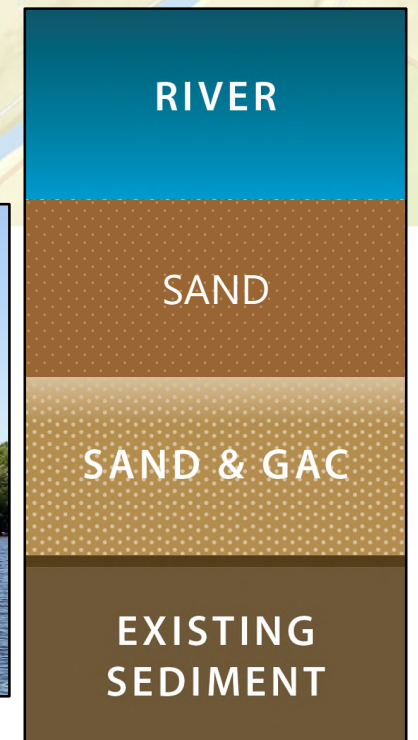
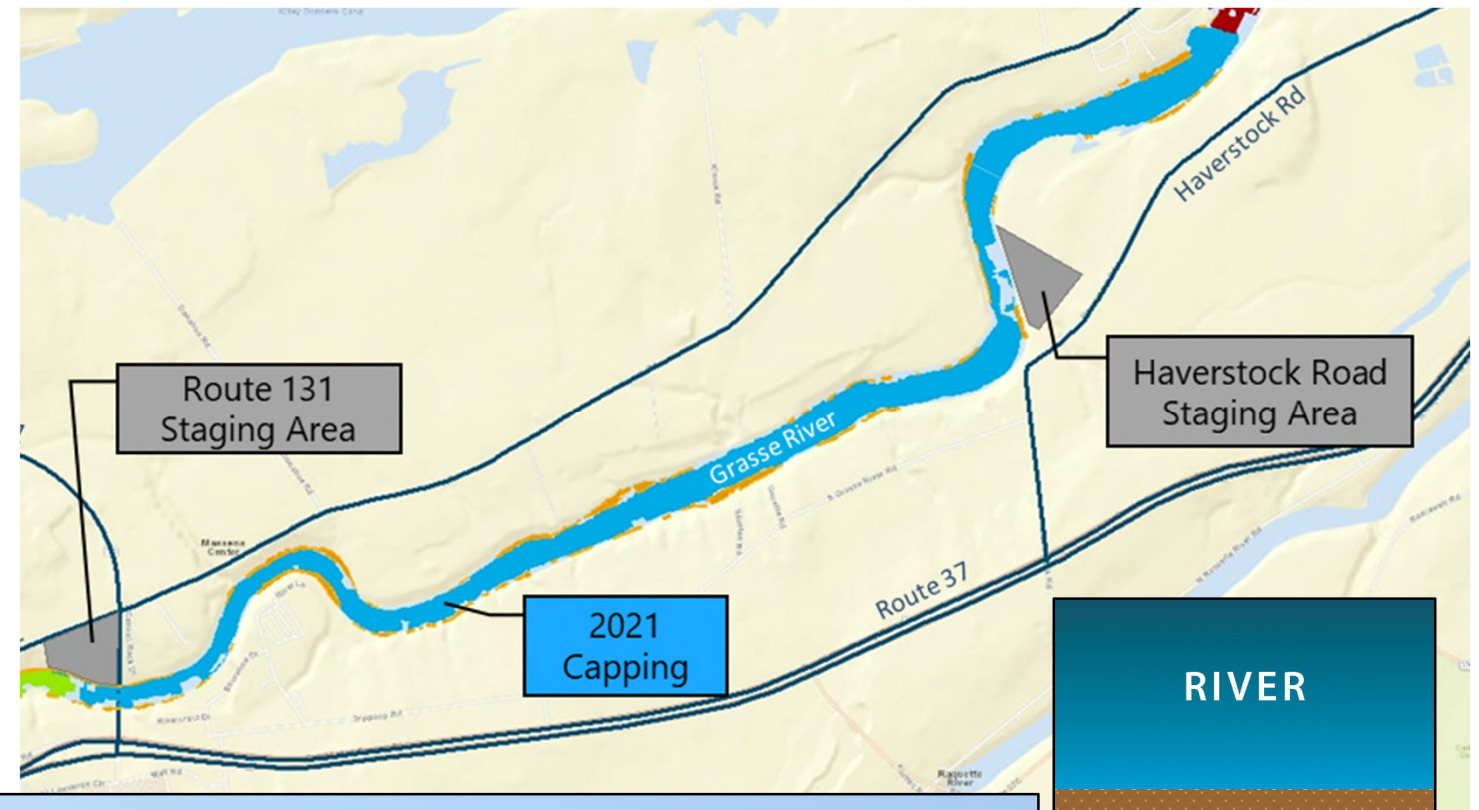
- ❑ Capping
- ❑ Habitat material placement
- ❑ Backfill and limited removal
- ❑ Material handling at the staging areas
- ❑ Replanting and installation of habitat features



2021 Activities: Capping

Capping – Between Route 131 Bridge and Grasse River Mouth

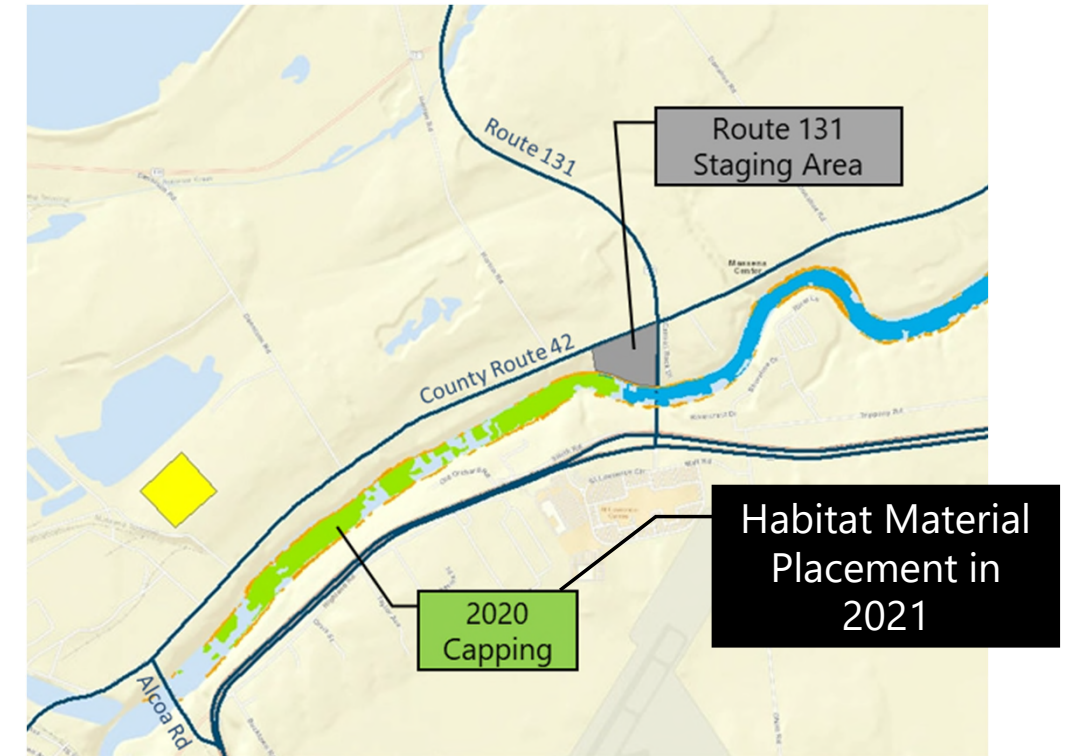
- ❑ Place cap material over ~204 acres (~5 miles of river)
- ❑ Clean cap material transported via pipeline from staging areas to river



2021 Activities: Habitat Material Placement

Habitat Material – Between Alcoa Road and Route 131 Bridge

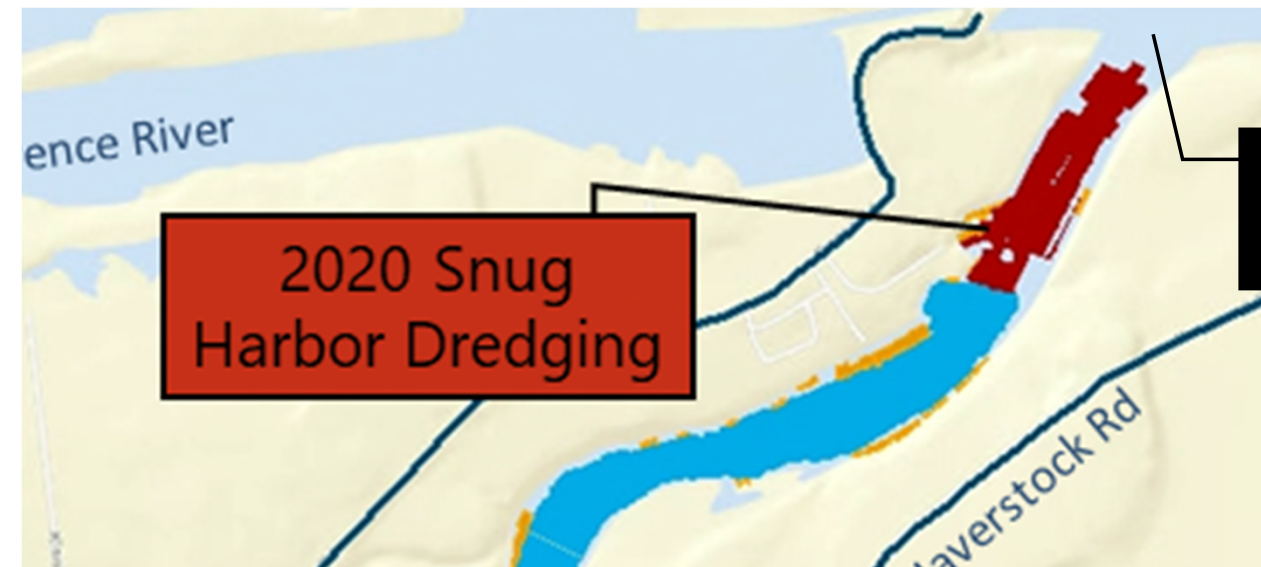
- ❑ Place habitat layer over a portion of the 2020 cap areas upstream of the Route 131 bridge (~31 acres)
- ❑ Habitat material transported via pipeline from staging area to river



2021 Activities: Backfill and Limited Dredging

Backfill Capping – Between Route 131 Bridge and Grasse River Mouth

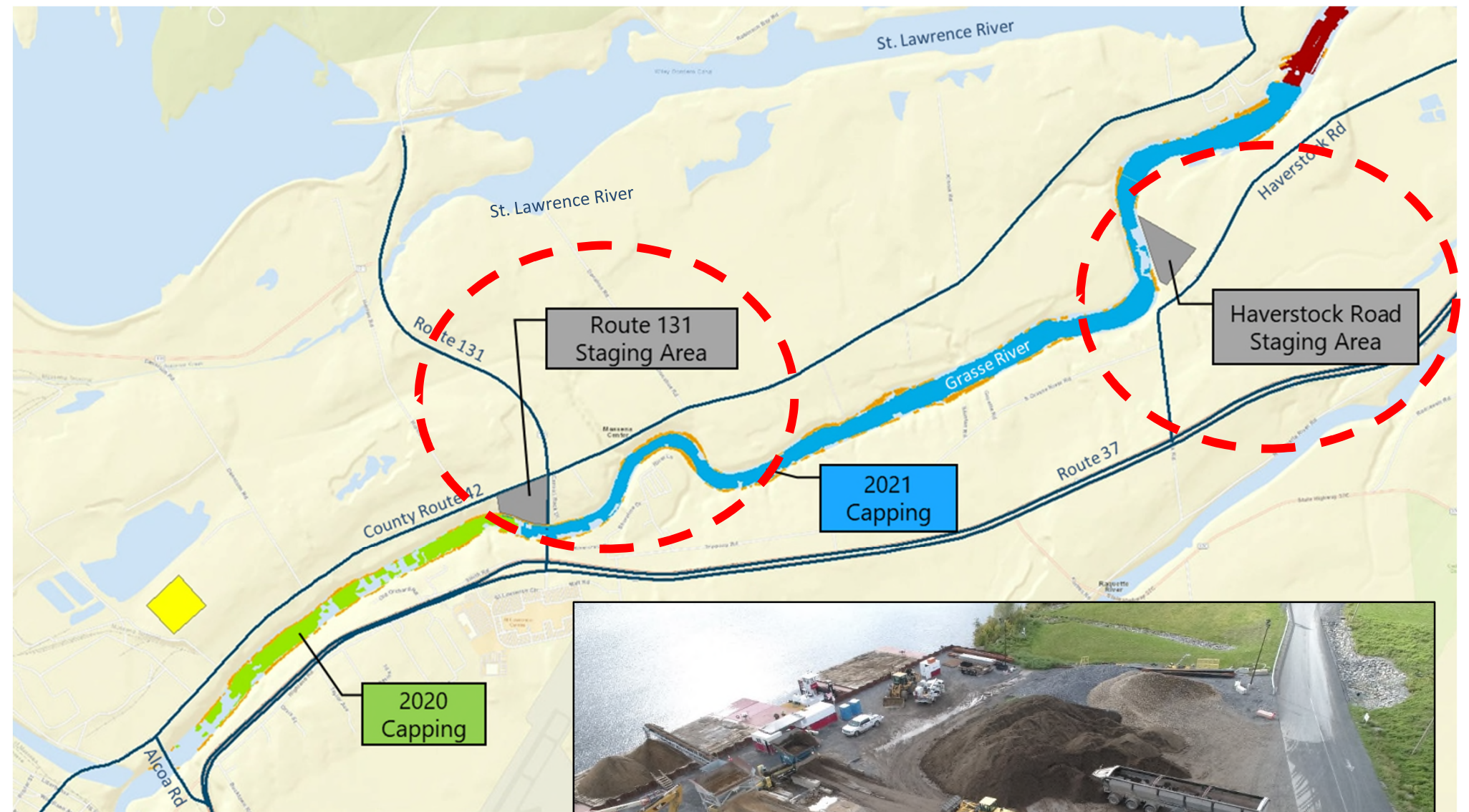
- ❑ Place backfill material over ~3 acres in the area dredged Snug Harbor dredge area
- ❑ Backfill material transported via barge from staging area to river
- ❑ Limited dredging planned downstream of Snug Harbor at the mouth in coordination with the St. Lawrence Seaway Development Corp. to support the new tugboat



2021 Activities: Material Handling

Cap, Habitat, and Backfill Material Handling at the Staging Areas

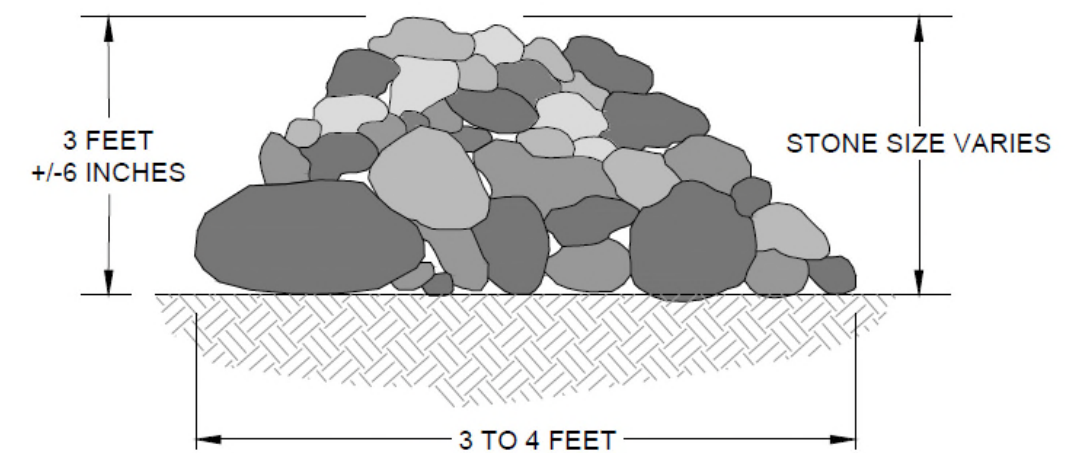
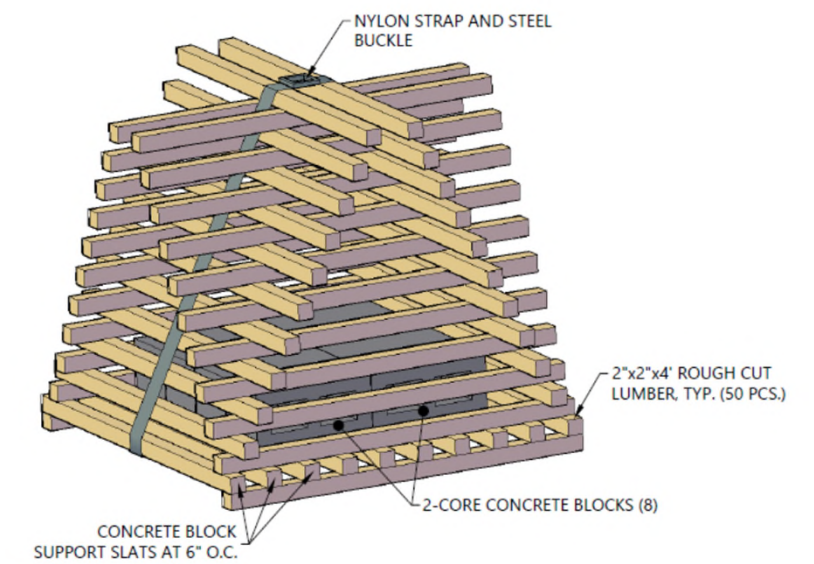
- ❑ Materials that will be placed in the river will be transported to the staging areas via truck from the borrow pits
- ❑ Staging areas will be located upstream of the Route 131 Bridge and adjacent to Haverstock Road



2021 Activities: Replanting and Habitat Features

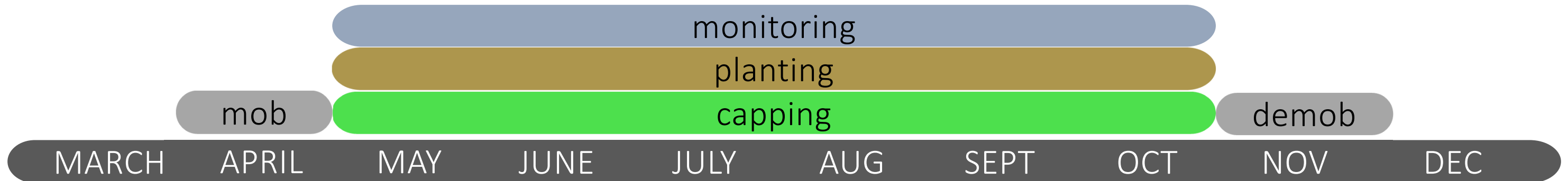
Plantings in Near Shore Areas and Habitat Features in the Main Channel

- Additional plantings and habitat features (rock clusters, rootwads, and fish cribs) will be installed in the river to support habitat restoration



Target 2021 In-river Work Schedule

Target Construction Schedule Pending Weather Conditions



- ❑ Work targeted for 6 days per week, 24 hours per day on river
 - Night work at staging area and on river during capping operations
- ❑ Work to generally be performed upstream to downstream
 - Most upstream area work will not start until mid-June to protect lake sturgeon



What to Expect During In-river Work

Working with the Contractor and Local Authorities to Limit Impacts to Residents

- ❑ Possible noise and associated controls and monitoring
- ❑ Lighting for worker safety and controls
- ❑ Site security
- ❑ Vehicle and boat traffic
- ❑ In-river pipeline running the length of the river along the shoreline with identified crossings



What to Expect During In-river Work: Noise Controls and Monitoring

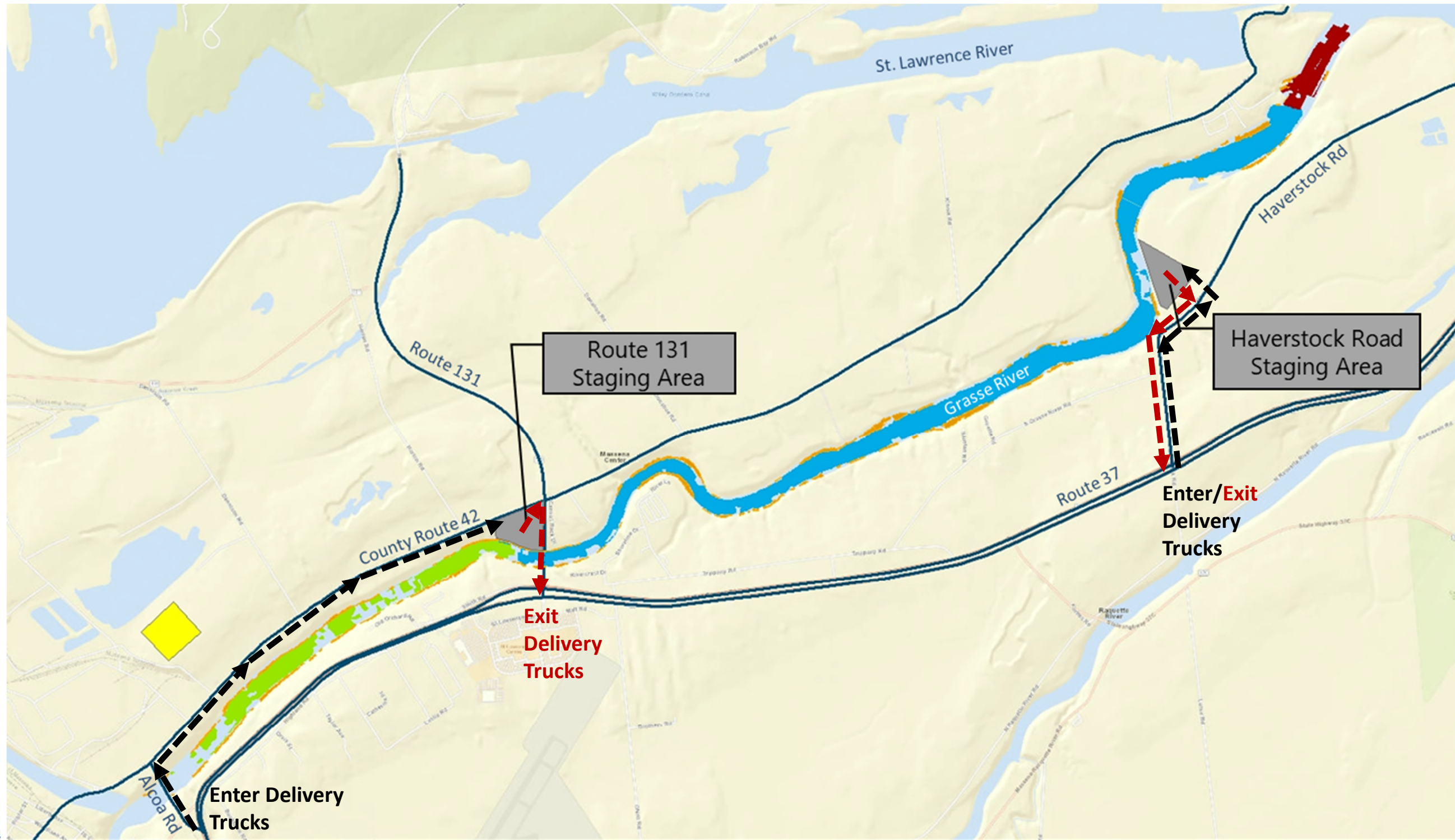
Noise Reducing Measures to Limit Impacts to Residents

- ❑ Construction noise mitigation measures
 - Most cap materials will be transported in the river using a pipeline
 - Booster pumps at the staging area and in the river to support the pipeline will be surrounded by sound attenuation panels
 - Material deliveries will not occur during the night shift
 - White noise backup alarms will be used during the night shift

- ❑ Noise levels will be monitored against identified criteria

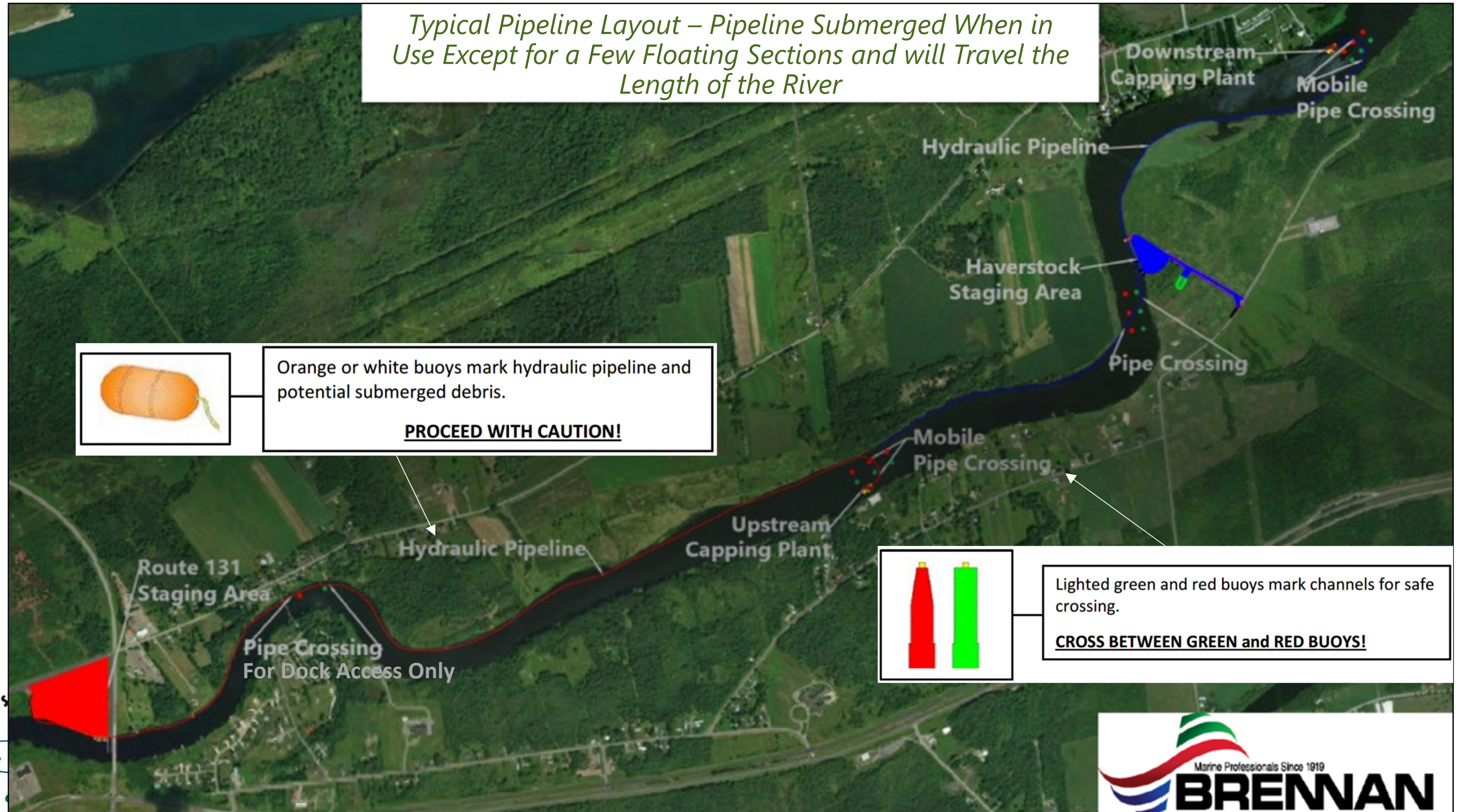


What to Expect During In-river Work: Truck Traffic Routes



What to Expect During In-river Work: Pipeline and Markings

Typical Pipeline Layout – Pipeline Submerged When in Use Except for a Few Floating Sections and will Travel the Length of the River



What to Expect During In-river Work: Monitoring

Air and Water Monitoring with Established Action Levels

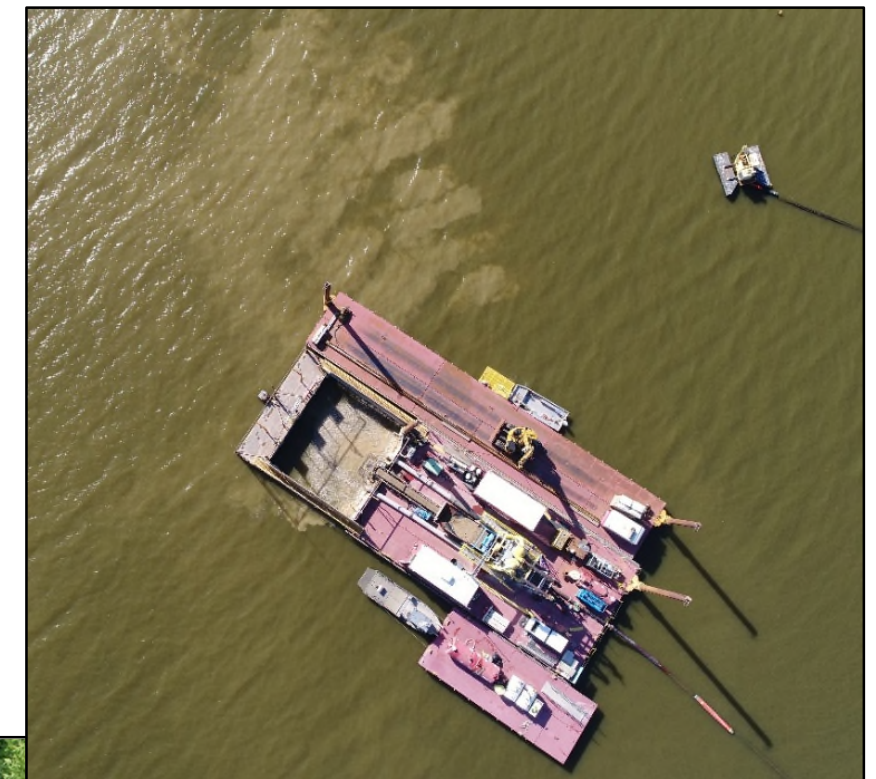
- ❑ Community health and safety plan outlines measures to protect the surrounding community
 - Plan posted to the project website (http://www.thegrasseriver.com/community_hs.html)
- ❑ Air monitoring for dust at the staging areas and PCBs during handling of potential PCB-containing material
- ❑ Water monitoring for PCBs and solids in the river and intakes
- ❑ Corrective action levels
- ❑ Monitoring data posted to the project website (<http://www.thegrasseriver.com/csmon.html>)



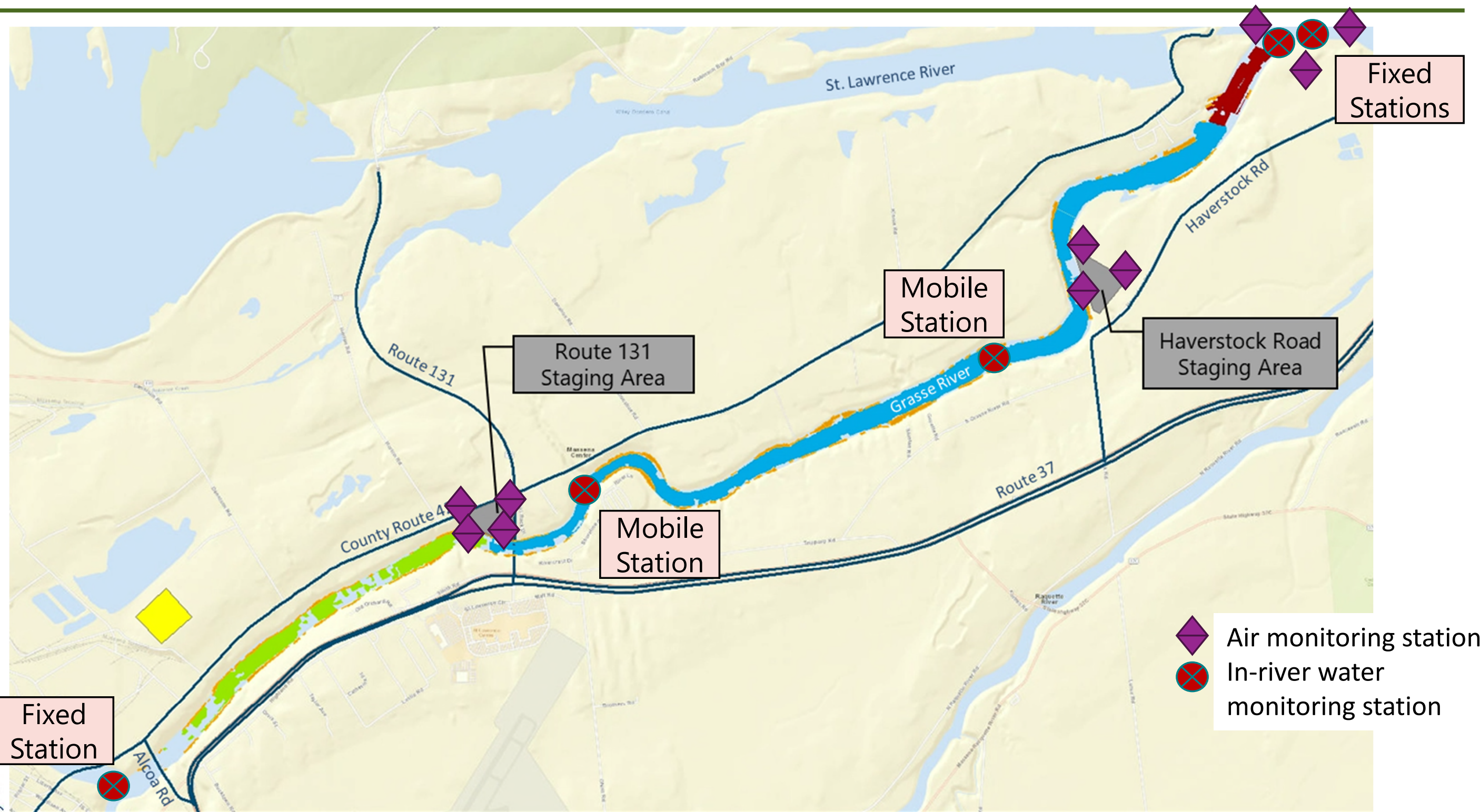
What to Expect During In-river Work: Turbidity

Turbidity Expected During Material Placement in River

- ❑ What is turbidity?
 - Measure of water clarity and how much the material suspended in water decreases the passage of light (USEPA)
 - Increased turbidity (cloudiness) expected, but note that turbid water is also visible during and after a storm
- ❑ Does it pose a concern?
 - Water quality criteria met during 2019 and 2020 dredging
 - Capping materials to be placed are clean
 - Monitoring and corrective action levels will be in place
- ❑ How much is expected?
 - Visible impacts expected and will return to natural conditions following work



Air and In-river Water Column Monitoring Locations



Water Intake Monitoring Locations

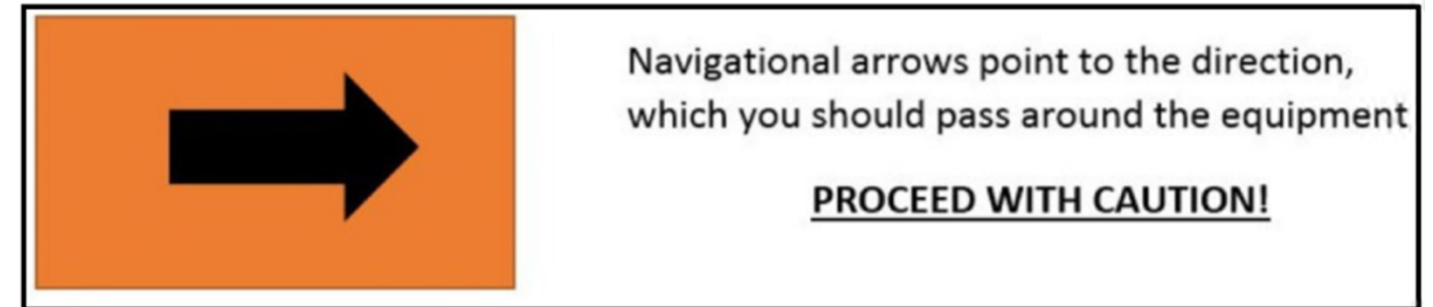


Boating and Swimming Safety

Please Take Precautions and Follow Signage Near Active Work Areas and Stay Clear to Keep Safe

❑ Boating

- Work areas identified with floating signs
- Requesting reduced boat speed and safe distance
- Navigational arrows point to direction for passing around equipment
- Be aware of floating pipeline marked with buoys



❑ Swimming

- Avoid swimming near or immediately downstream of active work areas
- Refer to guidance contained in NYS Department of Health swimming factsheet

[\(https://www.health.ny.gov/environmental/investigations/lower_grasse_river/\)](https://www.health.ny.gov/environmental/investigations/lower_grasse_river/)



Additional Health and Safety Measures

Covid-19 Planning Measures


- ❑ Covid-19 protocols will continue to be followed and safeguards will be maintained for the protection of site workers and the community.
- ❑ Comprehensive Covid-19 plan updated based on CDC and NYS guidance and reviewed with the health department
- ❑ This plan is a “living” document that will be continually reviewed and updated as new guidance is released



For More Information on the Grasse River Remediation Project

USEPA and Arconic will be Reaching out in Various Ways

- ❑ Mailers and other communications
- ❑ Visit Arconic’s project website: www.thegrasseriver.com
- ❑ Visit U.S. EPA’s Grasse River Superfund site: www.epa.gov/superfund/alcoa-aggregate



If you have questions or concerns, please contact Arconic’s community liaison:

Sue Flynn
(315) 764-4400
Susan.Flynn@arconic.com

- ❑ Additional contacts for more information about the project:

Young Chang	US Environmental Protection Agency	Phone: 212-637-4253 Email: chang.young@epa.gov
Larry McShea	Arconic Project Manager	Phone: 724-337-5458 Email: Larry.McShea@arconic.com
David Tromp	NYS Department of Environmental Conservation	Phone: 518-402-9786 Email: david.tromp@dec.ny.gov
Daniel Tucholski	NYS Department of Health, Bureau of Environmental Exposure Evaluation	Phone: 518-402-7860 Email: BEEI@health.ny.gov
Jay Wilkins	St. Regis Mohawk Tribe	Phone: 518-358-5937, ext. 5061 Email: jay.wilkins@srmt-nsn.gov

