Preview of 2020 Activities

Grasse River Remediation Project

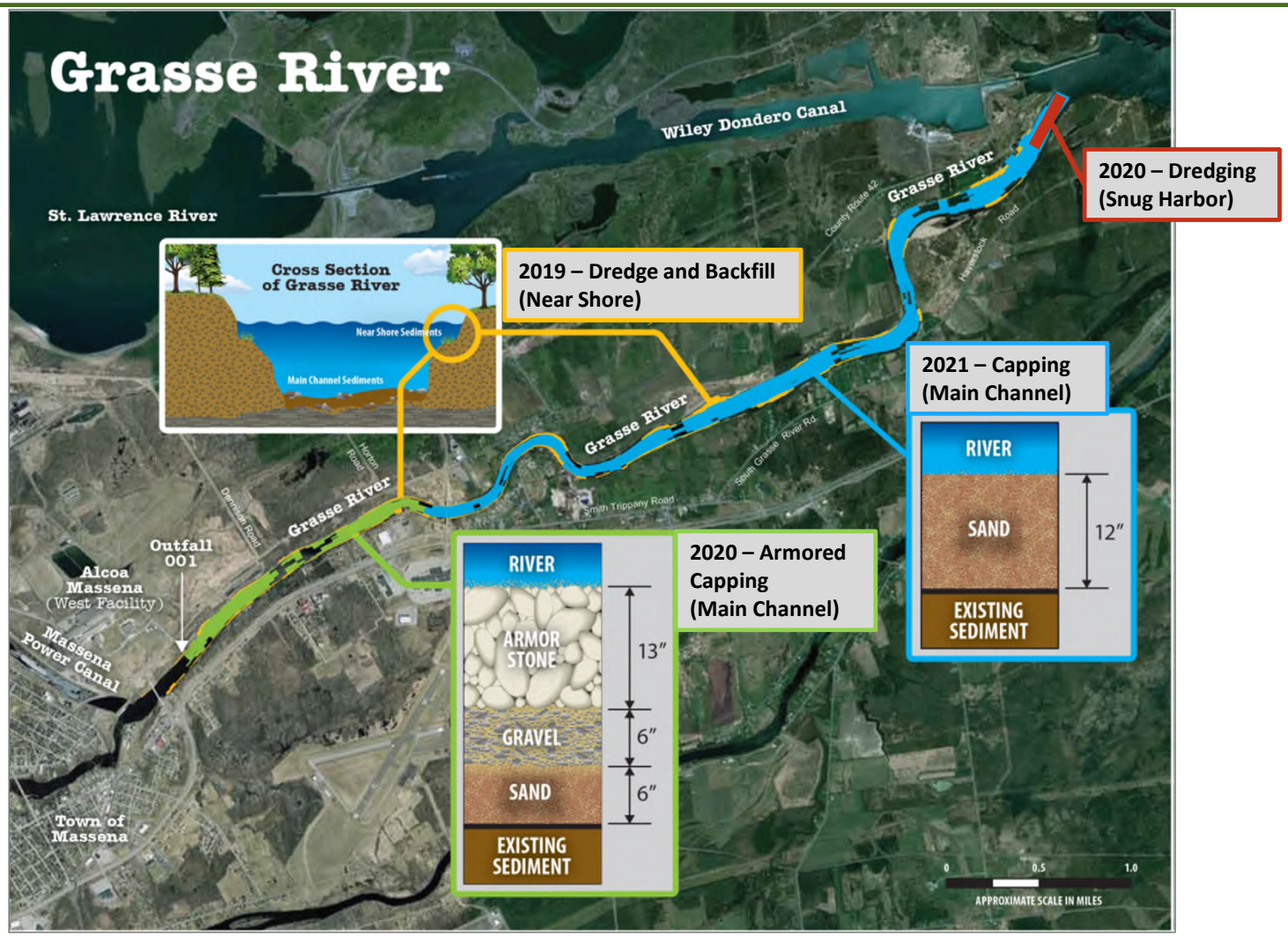
April 2020

Topics to be Covered

Presentation Slide Summary

- Project overview
- Work completed in 2019
- What to expect during 2020 in-river work
- Monitoring
- Boating and swimming safety
- Resources for more information

USEPA Selected Grasse River Remedy and General Target Schedule



Already Completed: 2019 Remediation and Support Work

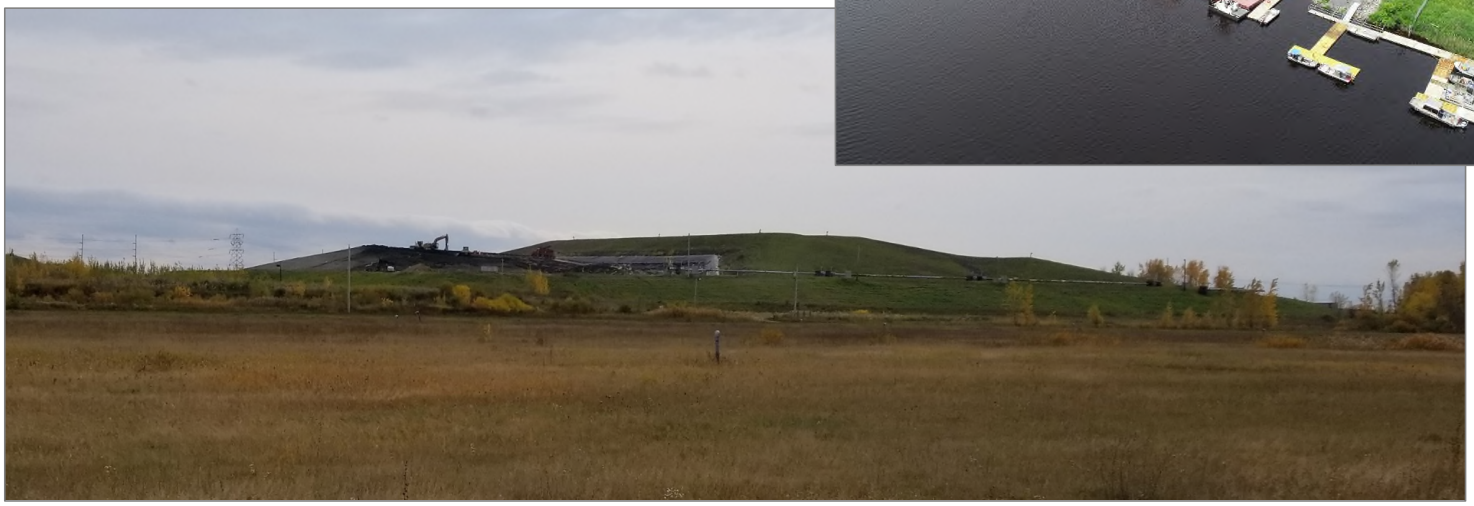
Sediment and Soil Removal

- Removed ~100,000 cubic yards of sediment/soil from near shore areas within the river and floodplain areas
- Remediated an upland area just upstream of the Alcoa Bridge and the mouth of the Unnamed Tributary
- Placed clean cap material and backfill in the river, and reconstructed the near shore and floodplain areas

Already Completed: 2019 Remediation and Support Work (Cont'd)

Material Processing and Disposal

- Processed dredged material at the staging area and transported to the Secure Landfill for disposal



2019 Monitoring Results Summary

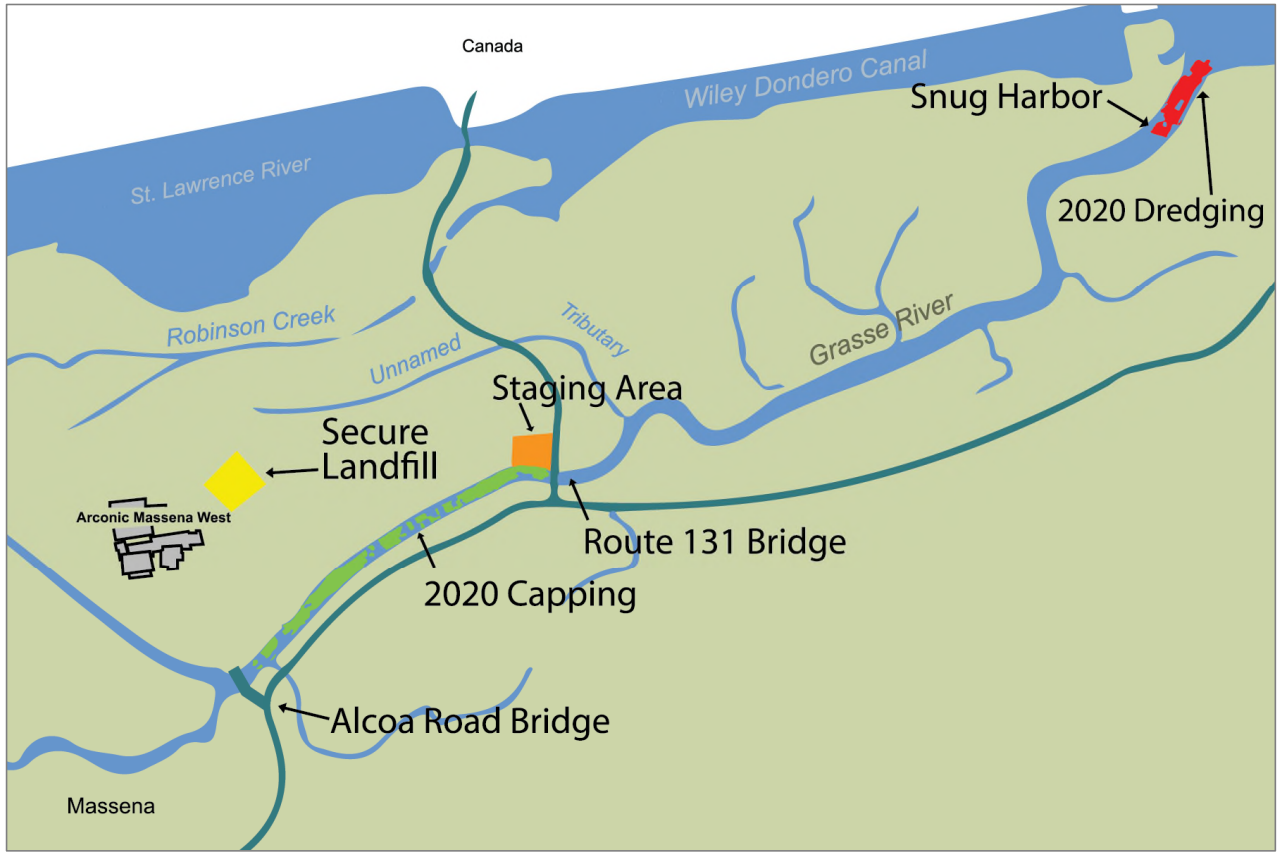
Monitoring Results Confirm Construction Work Protecting Health

- Extensive air and water quality monitoring conducted during all 2019 activities and results indicated the work was done in a manner protective of human health
  - All water quality measurements at the river compliance location and drinking water intakes were well below established criteria
  - All air quality measurements at the Arconic property line were below established criteria; there were a limited number of air quality exceedances in early summer at the Secure Landfill, and they were quickly addressed with no further incidents

What's Next: Grasse River 2020 Remediation Project Activities

Sediment Removal, Processing and Disposal – Capping – Planting

- Sediment removal
- Material processing at the staging area
- Dispose materials at the secure landfill
- Capping
- Replanting



Grasse River 2020 – Sediment Removal

U.S. EPA's Remedy Modification → Removal at Snug Harbor Area

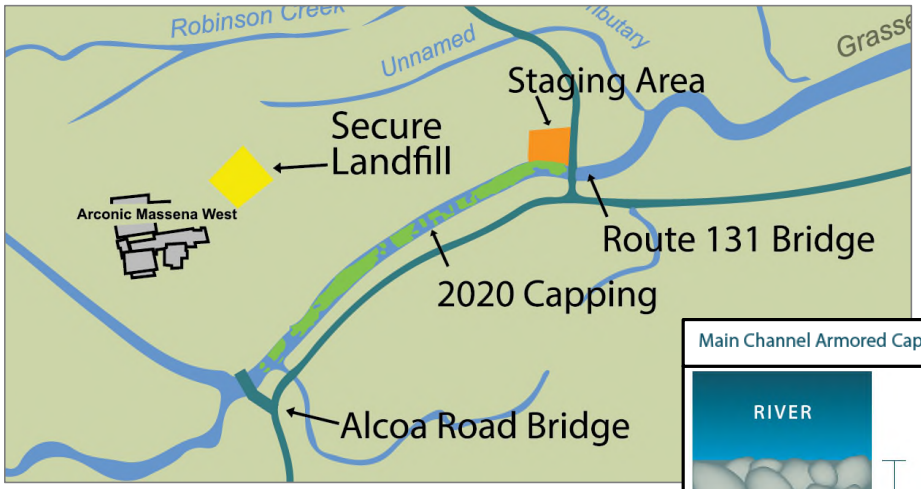
- Change in river use in vicinity of Snug Harbor due to St. Lawrence Seaway Development Corporation plans to operate a new tugboat that requires deeper navigational draft
- Remove ~85,000 cubic yards of targeted sediment over ~20 acres (+ 6,000 cubic yards for navigation)
- Material transported via barge from removal areas to staging area for processing
- Material transported via truck from staging area to secure landfill for disposal

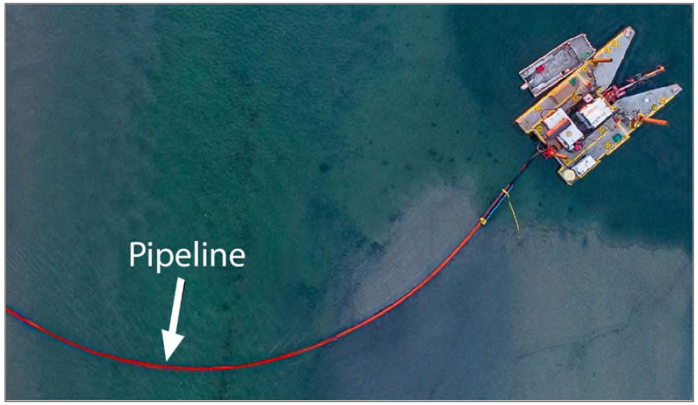
The basis for the change at Snug Harbor can be found at the following link: https://www.epa.gov/superfund/alcoa-aggregate

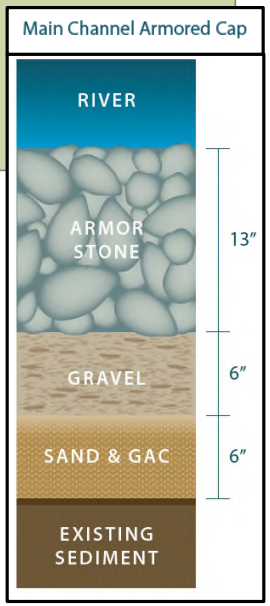
Grasse River 2020 – Capping

Capping – Between Alcoa Road Bridge and Route 131 Bridge

- Place cap material over ~55 acres (~ 2 miles of river)
- Clean cap material transported via barge and pipeline from staging area to river
- Material transported via truck to staging area from borrow pit







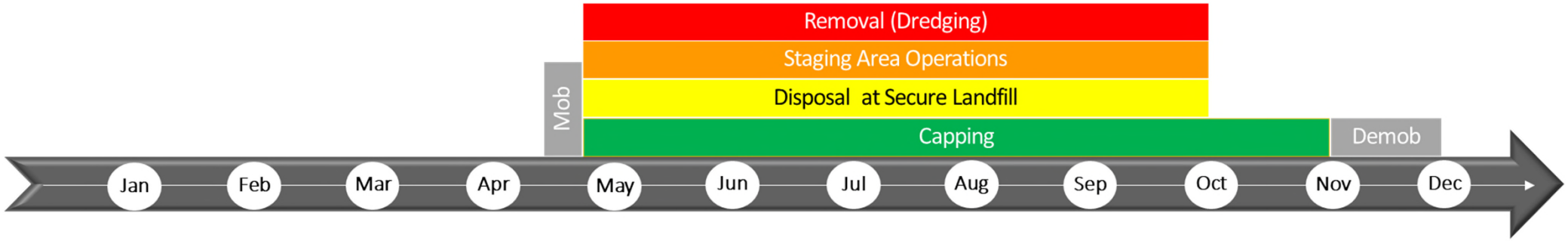
Grasse River 2020 – Planting

Planting – 2019 Near Shore Areas

- Plant vegetation in the near shore areas dredged in 2019

Target 2020 In-river Work Schedule

Target construction schedule pending weather conditions



- Work targeted for 6 days per week, 12-24 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 the impact to residents

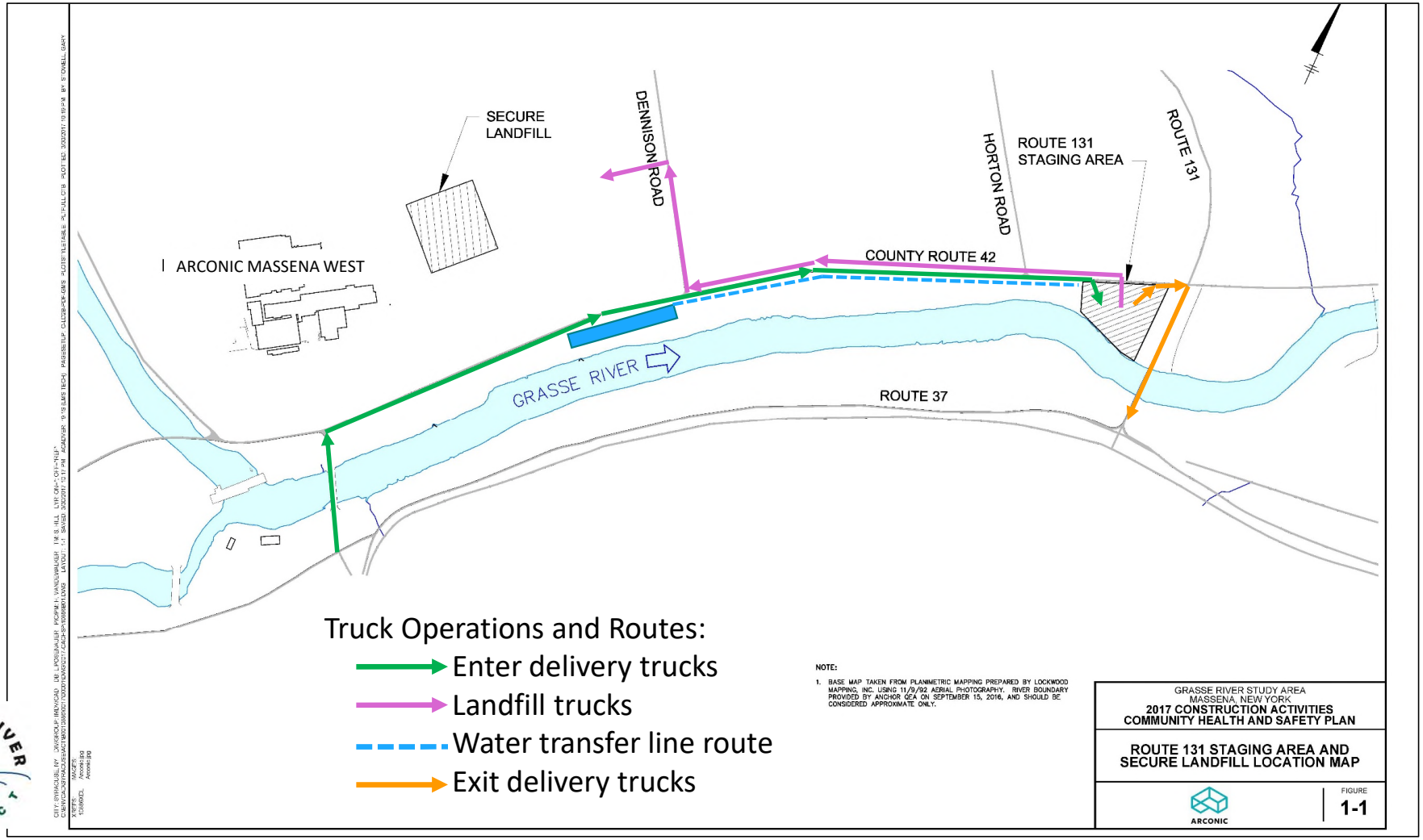
- Possible noise and associated controls and monitoring
- Lighting for worker safety and controls
- Site security
- Vehicle and boat traffic plans

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

Noise reducing measures by the contractor to limit the impact to residents

- Construction noise mitigation measures
  - Cap materials will be transported using a pipeline or barges lined with wooden crane mats
  - Placement equipment will be lined with a sound dampening material
  - Booster pumps at the staging area will be surrounded by sound attenuation panels
  - Material deliveries will not occur on the night shift
  - Off site loading and material transport to the landfill will not be allowed after 8:00 pm
  - No back up alarms during the night shift
- Capping will be upstream of the Route 131 bridge away from the majority of homes along the river
- Noise levels will be monitored against identified criteria

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

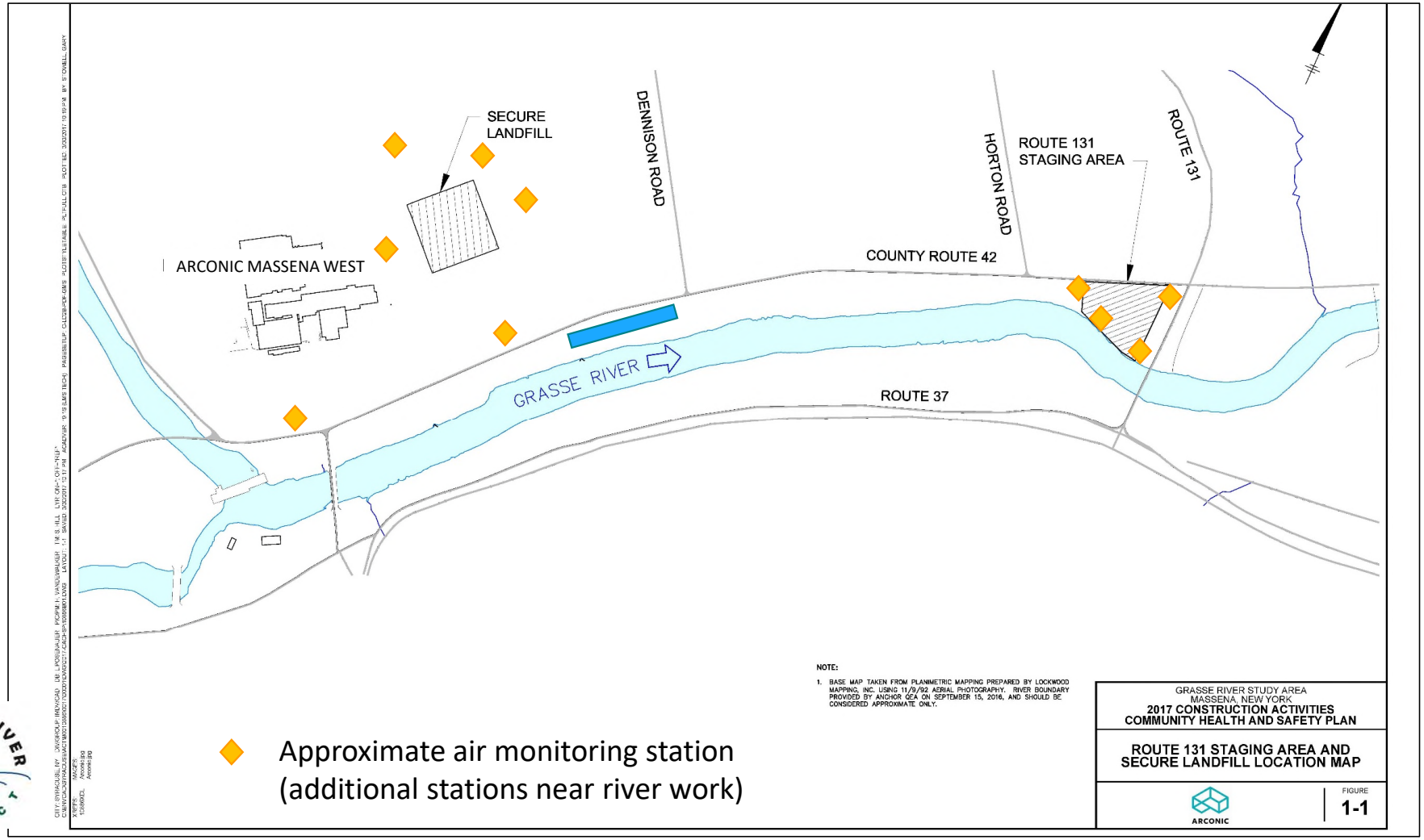


What to Expect During In-river Work: Monitoring

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/documents/App_K_Final%20CHASP%2004-2019%20FINAL%20reduced.pdf)
- Air monitoring
  - PCBs, dust, and volatile organic compounds (VOCs)
- Water monitoring
  - PCBs and solids
- Corrective action levels
- Monitoring data posted to the project website (http://www.thegrasseriver.com/csmon.html)

Air Monitoring Stations at the Secure Landfill and Staging Area



Approximate air monitoring station
(additional stations near river work)

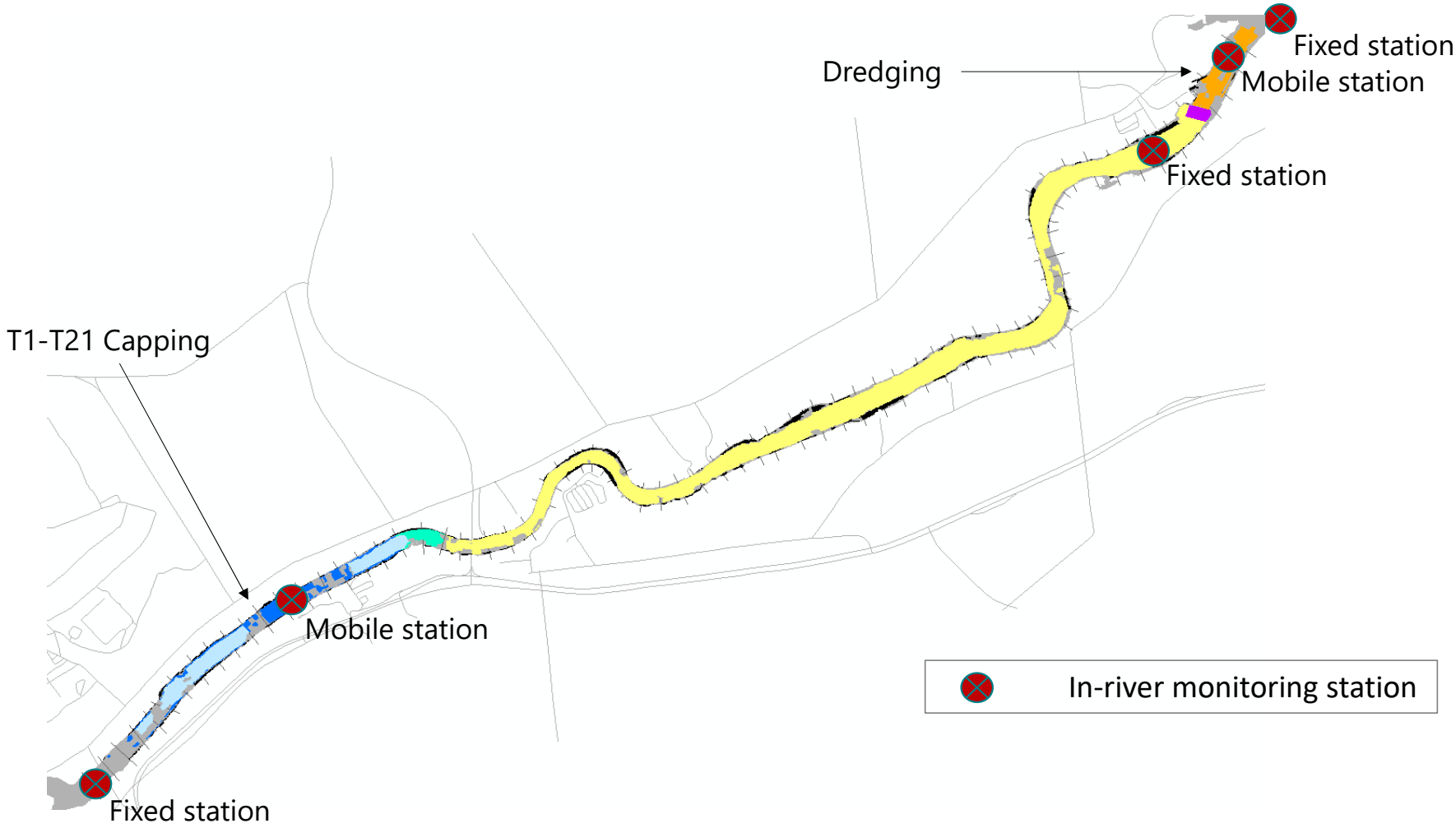
Air Monitoring Stations for the Sediment Removal Operations

What to Expect During In-river Work: Turbidity

Turbidity expected during material placement in the 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 were met during 2019 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

Water Column Monitoring Locations



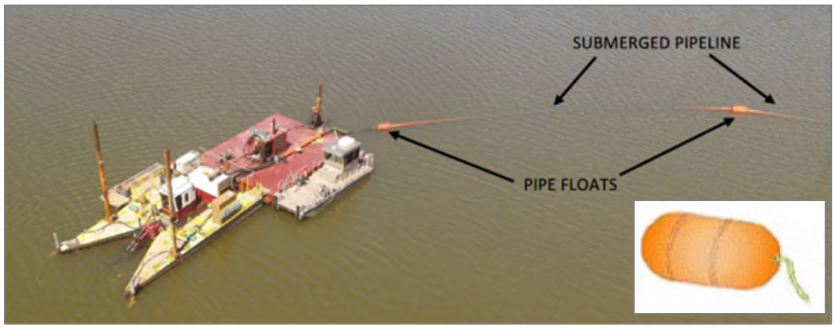
Water Intake Monitoring Locations

Boating and Swimming Safety

Please take precautions and following 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/)



Additional Health and Safety Measures

Coronavirus – COVID-19 Measures

- Measures will be put in place prior to and during construction for protection of the workers and community in response to the COVID-19 outbreak

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:

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(315) 764-4400
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- Additional contacts for more information about the project:

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