



USEPA and EGLE McLouth Shoreline Activities



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McLouth CAG
Sept. 10, 2020

2002 Great Lakes Legacy Act



Detroit River AOC Characterization Areas & Sediment Projects

Harbortown Upstream

Harbortown

Uniroyal Shoreline/Detroit Riverwalk Capping Project

Riverbend

RCW Centennial Park Capping Project

Railyard Shoreline (Potential Future Project, currently being discussed)

Rouge River/Ecorse Shoreline

Upper Trenton Channel (not part of current EPA Characterizations)

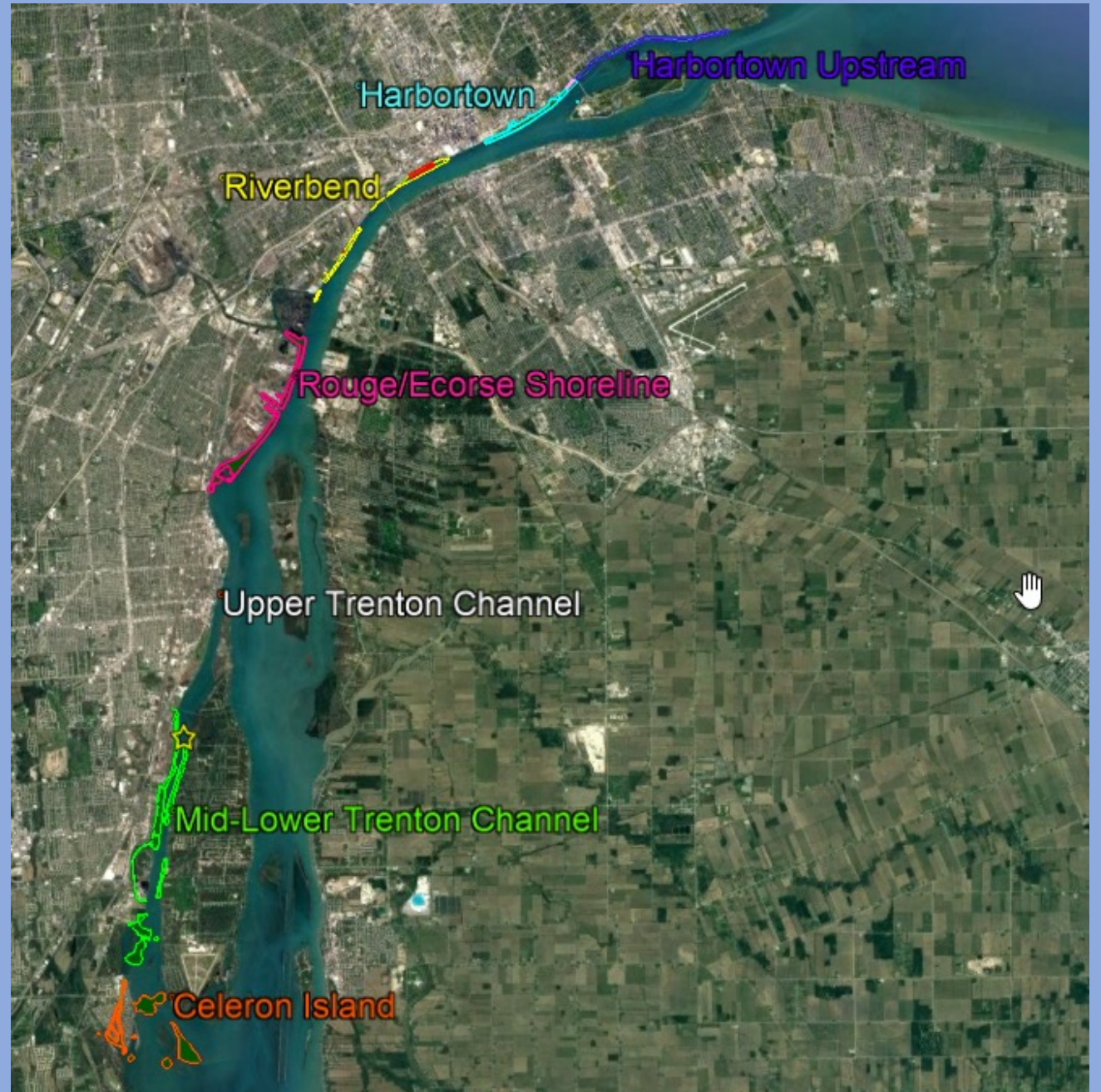
Remedial Design

Mid Lower Trenton Channel

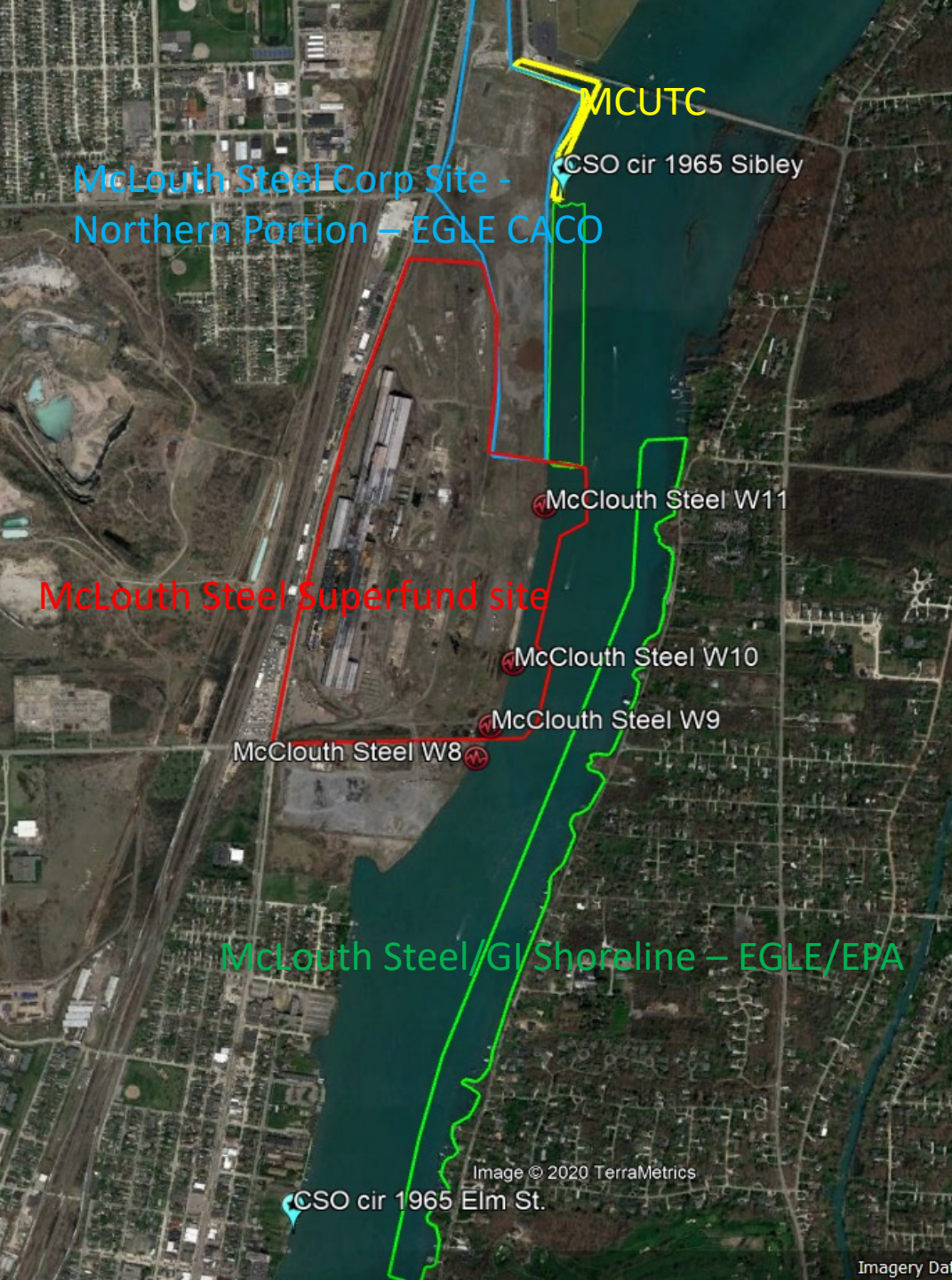
★ Monguagon Creek Pre-Design Investigation

★ McLouth/Grosse Ile Shoreline Remedial Investigation

Celeron Island



Layout of projects along the McLouth shoreline and historic outfalls along the McLouth shoreline



Monguagon Creek Remedial Design



RAMBOLL

Locations of Areas of Interest

FIGURE

1

DRAFTED BY: MLINDMAN

DATE: 4/3/2020

PROJECT:

EGLE/EPA Cooperative Agreement

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McLouth/Grosse Ile Shoreline,
Sediment Remedial Investigation

McLouth/Grosse Ile Shoreline RI Area (filled in white)

EGLE site characterization:

- Bulk Sediment, Surficial & Cores
- Porewater
- Side-scan sonar
- Multi Beam Survey
- Shoreline Survey
- Sub-Bottom Thickness
- Outfall Evaluation
- Sediment Trap Investigation



MCUTC GLLA site – EPA/BATO

McLouth Steel Corp Site -
Northern Portion – EGLE OACO

McLouth Superfund site - EPA

McLouth/Grosse Ile Shoreline – EGLE/EPA CA

Project Schedule/RFP Process

Activity/Event	Schedule
Scope of work	6/3/20
RFP Document	6/11/20
Advertisement	7/7/20
Questions Due	7/21/20
RFP Addenda Submission	7/30/20
Proposals Due Date	8/27/20
Selection Recommendation	9/17/20
Sign Contract	10/23/20
Execute Contract	10/27/20
Kickoff Meeting	10/29/20

- Field sampling work will depend on contractor but suspect either Spring 2021 or Spring 2022.
- Lower Rouge Main Channel is part of RI, contractor has choice which one to start with.

Bulk and Porewater Sediment Analysis

- **Bulk Sediment, Surficial & Cores**

- Metals – Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Nickel, Mercury, Selenium, Silver and Zinc
- Polychlorinated Biphenyls (PCBs)
- Polycyclic Aromatic Hydrocarbons (PAHs)
- Total Petroleum Hydrocarbons (TPH)
- Per- and polyfluoroalkyl substances (PFAS)
- Total Organic Carbon (TOC)

- **Porewater**

- Polycyclic Aromatic Hydrocarbons (PAHs)
- Per- and polyfluoroalkyl substances (PFAS)
- Acid Volatile Sulfide – Simultaneously Extracted Metals (AVS-SEM)
- Dissolved Organic Carbon (DOC)

Sediment Trap Investigation

- **Sediment Trap Investigation** - evaluate sediment accumulation rates at various locations in the system. To further evaluate potential uncontrolled sources of sediment contamination Traps will be installed near Combined Sewer Overflows and outfalls to collect suspended solids for laboratory analysis for 34 PAHs, PCBs, metals and TOC.
- **Outfall Evaluation** - completed to identify potential on-going sources impacting sediments in the investigation areas, including upstream sources, current and abandoned outfalls, controlled/uncontrolled CSOs, underground storage tanks, and industries within each CSO drainage basin.
- **Additional Analyses**
 - If Additional Funding is Available
 - Total Cyanide
 - Ammonia
 - Dioxin
 - pH

Surveys

- **Multi Beam Survey** – provides detailed surface sediment data
- **Side-scan sonar** - completed to identify potential obstructions and/or debris that might be present on the river bottom, to distinguish between differing textures of surface sediment (e.g., soft organic sediment versus hard-packed sand and gravel), and to identify the presence of submerged aquatic vegetation.
- **Shoreline Survey** - completed from the water by visually observing and documenting (field notes and photographs) the size and locations of bulk heads, sheet pile walls, active outfalls/CSOs, rocks/boulders/debris, upland soil type and condition, moorings, bridge supports/abutments, and similar structures and obstacles within the study area.
- **Sub-Bottom Thickness** – use of current data or single beam survey

Questions?



Photo: Anchor QEA