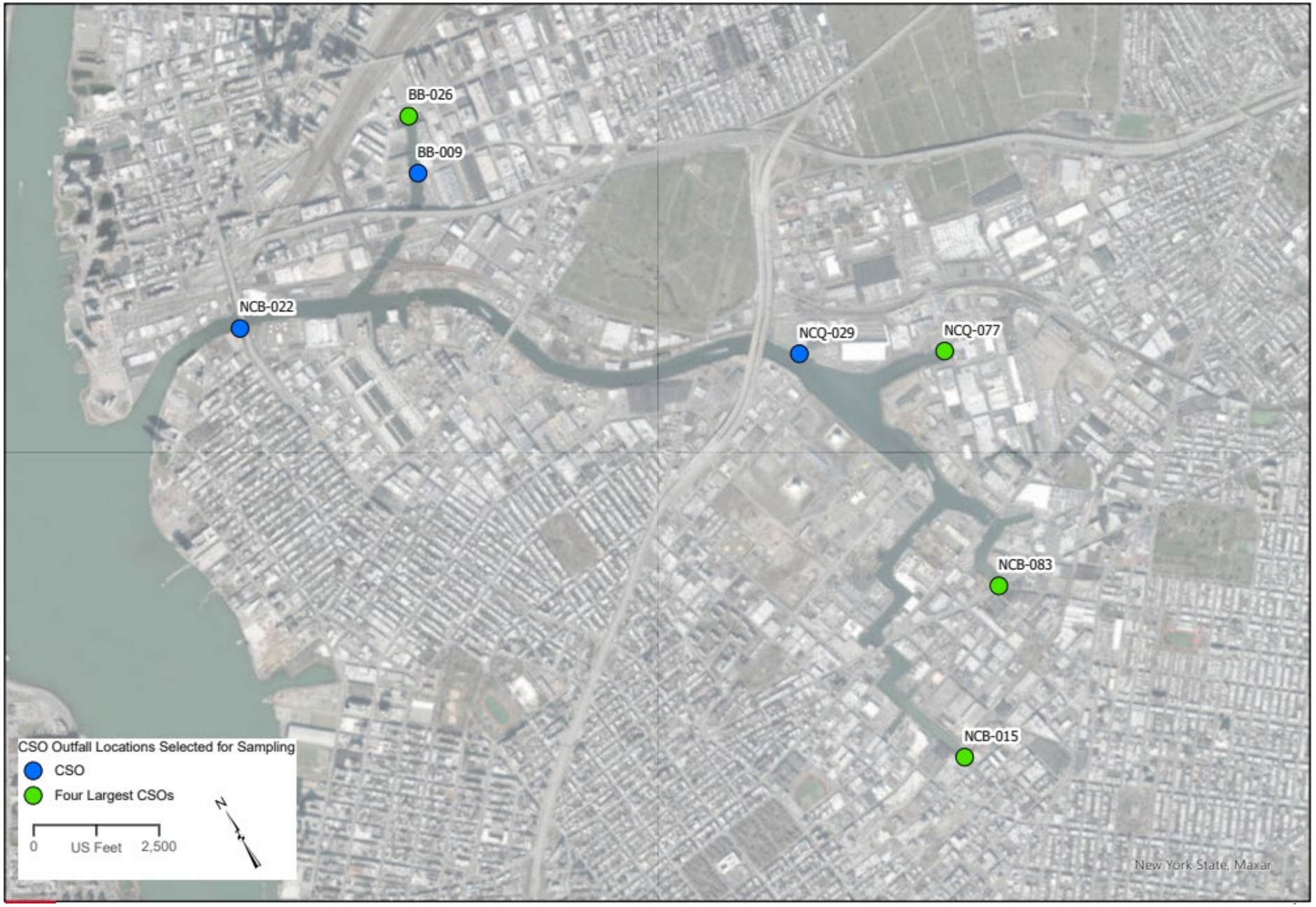
Newtown Creek OU2 Sampling Program

Sampling Program Overview

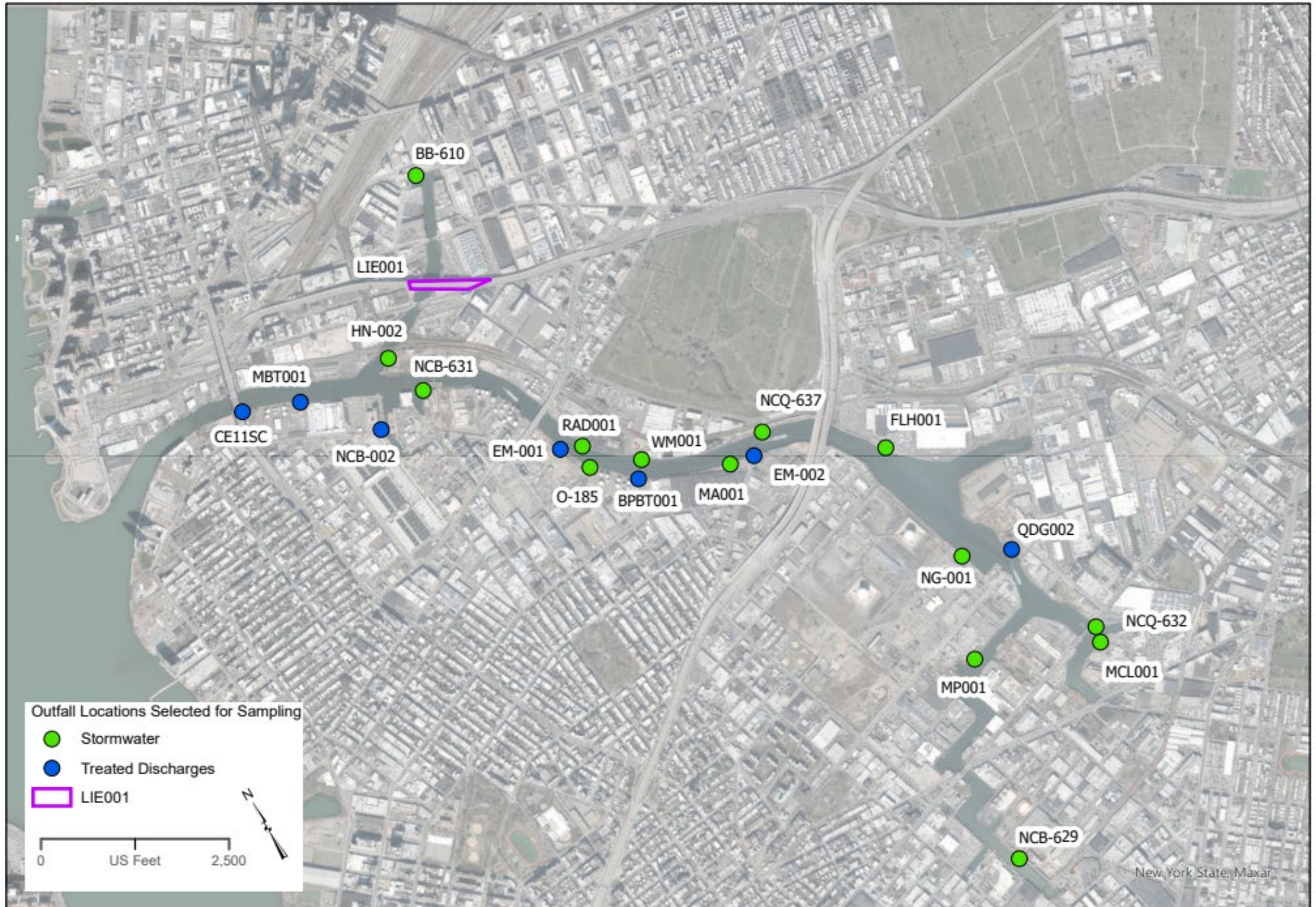
- Objective:
  - Ensure that the assumptions made regarding the concentrations of contaminants of potential concern (COPCs) in ongoing sources evaluated during OU2 FFS are valid.
  - Assess temporal trend of COPCs entering the Creek from four largest CSO outfalls.
  - Estimate the discharge volumes from CSOs and stormwater to the Creek.
- Monitoring program will target all point source & East River locations sampled during the RI
  - 7 Combined Sewer Overflow Outfalls
  - 16 Stormwater locations Outfalls
  - 7 Treated Discharge Outfalls
  - East River
- Sampling Frequency
  - Sample the 4 largest CSOs quarterly for the initial monitoring period of two years
  - All other point source discharges and East River will be sampled at least once during the two-year monitoring period.

Sampling Locations

CSO Outfall Locations



Stormwater/ Treated Discharges Locations



East River Location

NYC Environmental Protection

Sampling Procedure and Analyte List

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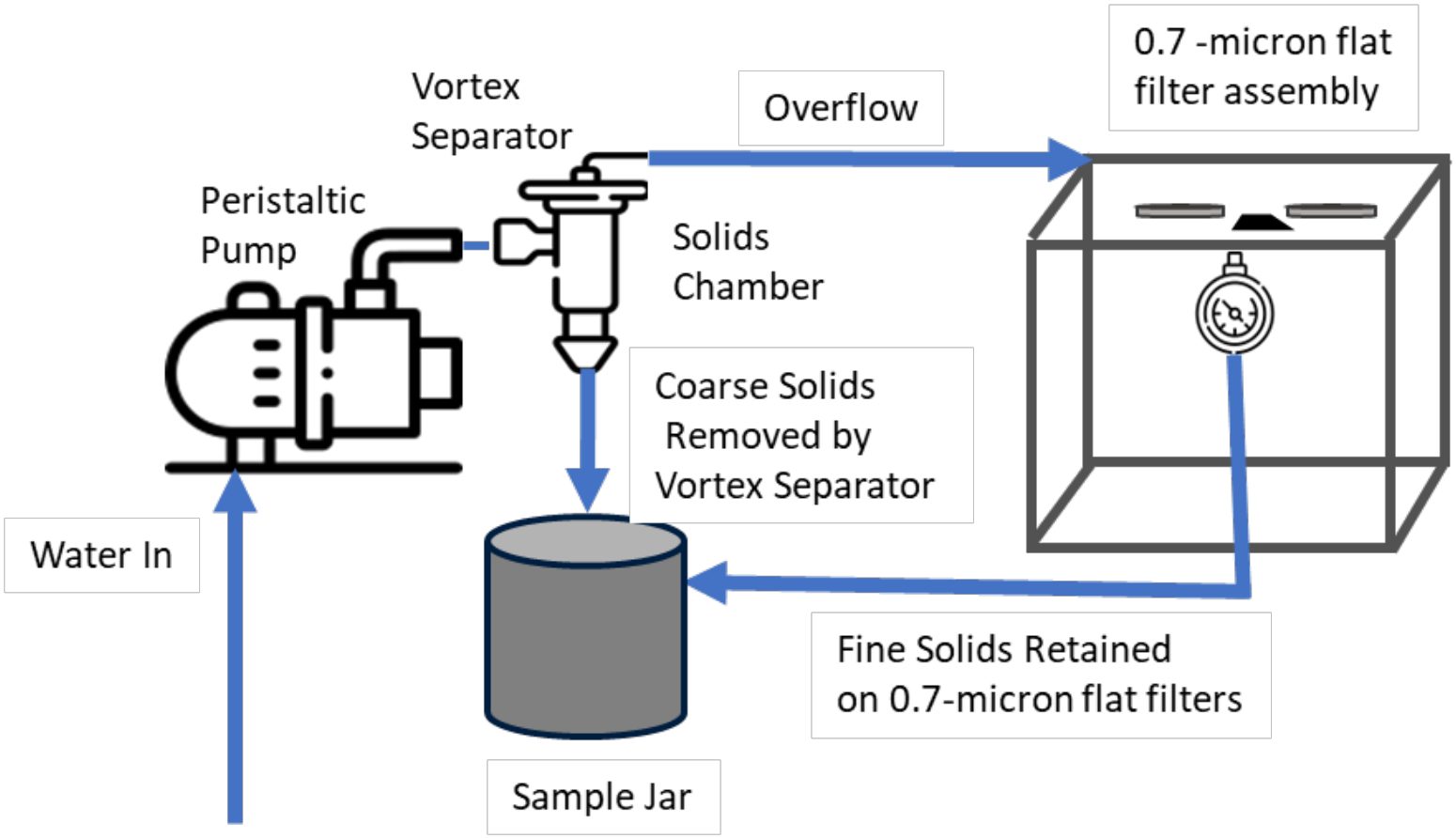
- Samples will be collected using a large volume field filtration system.
  - Allows for direct collection and characterization of solids discharging to the Creek
  - Samples will be collected continuously for the duration of a discharge event.
  - Whole water samples will be also collected periodically to characterize supporting parameters

- Contaminants of Potential Concern – characterized on solids only
  - Polychlorinated biphenyls (PCB)
  - Polycyclic Aromatic Hydrocarbons (TPAH17, TPAH34)
  - Metals (Lead and Copper)
  - Dioxins/Furans (D/F)
  - C19-C36 Aliphatics Petroleum Hydrocarbons

- Supporting Analyses – characterized using whole water samples
  - Total Suspended and Total Dissolved Solids
  - Total and Dissolved Organic Carbon

Large Volume Field Filtration System



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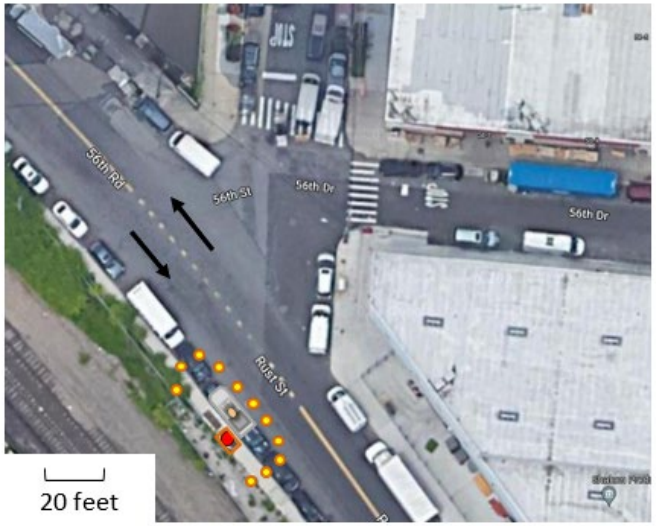


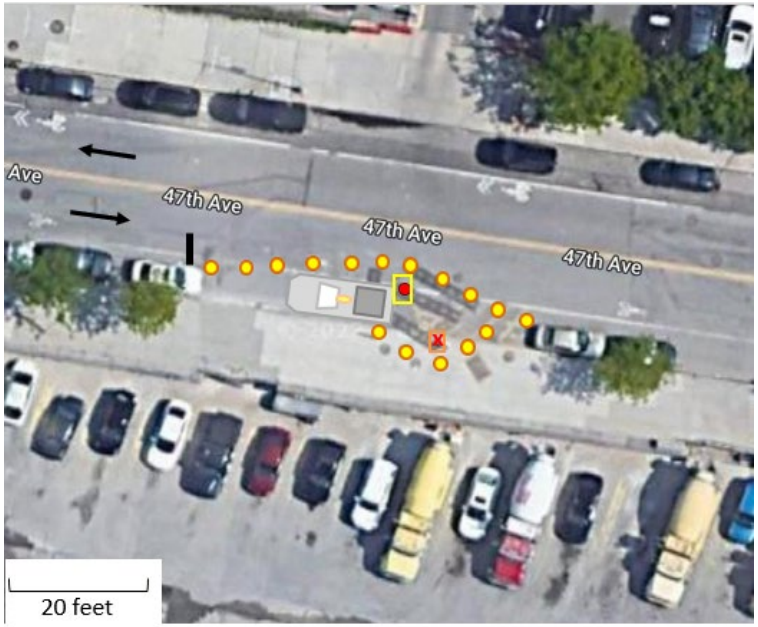
Sampling Vehicle

Tidegate Gate

Sampling Access Traffic

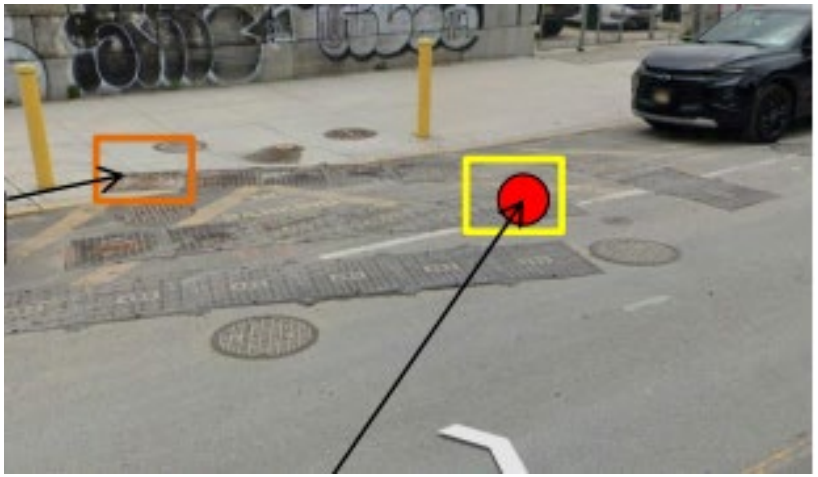
Cone

BB-026



Sampling Vehicle
Manhole Gate
Sampling Access
Traffic Cone
Road Sign
Observation point
Tidegate Gate

Note: Site conditions will dictate vehicle parking and equipment setup for each sampling event



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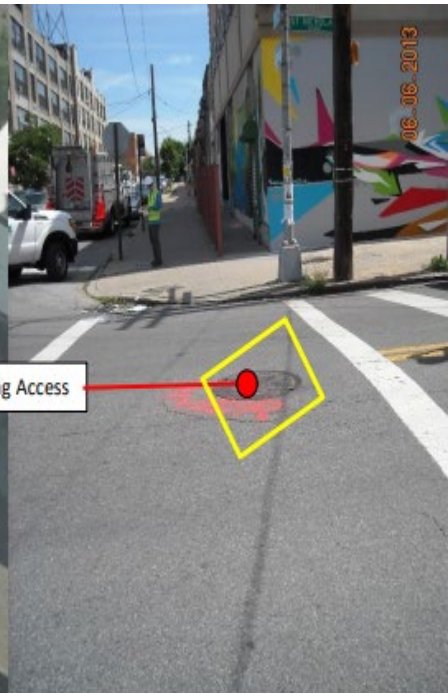
Sampling Vehicle
Tidegate Gate
Sampling Access
Traffic Cone
Road Sign
Observation Point
Manhole Gate
Flagger

Note: Traffic control and work zone safety at this location will be provided by a subcontractor. Vehicle placement is approximate.



NCB-015

- Sampling Vehicle
- Tidegate Gate
- Manhole Gate
- Sampling Access
- Traffic Cone
- Observation Point

Schedule and Reporting

- The sampling program is expected to start in Spring 2024.

- In accordance with the 2022 SOW:
  - Written quarterly monitoring reports and annual data summary reports will be provided to EPA for the monitoring activities completed.
  - Quarterly LTCP Status Reports detailing information relating to the status of implementation of the LTCP will also be delivered.

- Upon review of the data, EPA may reasonably evaluate and adjust, if needed, the monitoring components and frequency during the monitoring program.

Questions