

Environmental Justice Screening Form

Project Name	MWRA Section 56 Water Pipeline Replacement Project
Anticipated Date of MEPA Filing	August 9, 2023
Proponent Name	Massachusetts Water Resources Authority
Contact Information (e.g., consultant)	Katie Ronan, MWRA (617) 788-1177 katherine.ronan@mwra.com
Public website for project or other physical location where project materials can be obtained (if available)	https://www.mwra.com/projects/water/7454-section56-saugus-river/7454-update.html
Municipality and Zip Code for Project (if known)	City of Revere, 02151 City of Lynn, 01905
Project Type* (list all that apply)	Water Supply – Treatment/conveyance
Is the project site within a mapped 100-year FEMA flood plain? Y/N/ unknown	Yes
Estimated GHG emissions of conditioned spaces (click here for GHG Estimation tool)	Not applicable.

Project Description

<p>1. Provide a brief project description, including overall size of the project site and square footage of proposed buildings and structures if known.</p> <p>The Massachusetts Water Resource Authority (MWRA) is proposing to replace a section of its existing Section 56 water pipeline. Section 56 provides water service to the cities of Lynn and Revere. The section of this water pipeline to be replaced was previously attached to the General Edwards Bridge over the Saugus River (which is also Lynn/Revere municipal border) but had to be removed in 2018 due to severe corrosion. MWRA now proposes to replace this section of water pipeline by installing a new section of water pipeline under the water of the Saugus River, using both open-cut and trenchless underwater pipeline construction methods. MWRA's Section 56 Water Pipeline Replacement Project will ensure water system redundancy and reliability for residents and businesses in these communities, which is crucial to protecting public and environmental health. After the construction is complete, the only existing surface impacts will be approximately six manholes, which will be flush with the paved surfaces of Rice Avenue in Revere and Hanson Street in Lynn and/or in a grassy traffic island at the entrance to North Shore Road in Revere.</p> <p>Specific project activities include:</p> <ul style="list-style-type: none"> • Installation of a 20-inch water main under the Saugus River using horizontal

directional drilling (HDD) methods.

- **Installation of a 20-inch water main, including fittings, valves, air release valves, and blow-offs in Rice Avenue in Revere, from the Saugus River HDD crossing point at the Point of Pines Yacht Club to the existing Section 56 pipeline between the Route 1A northbound on-ramp and the Lynnway.**
- **Installation of 20-inch diameter water main and appurtenances, including fittings, valves, air release valves, and blow-offs in Hanson Street in Lynn, from the existing Section 56 pipeline in Route 1A to the Saugus River HDD crossing point at the end of Hanson Street/Riley Way Extension**
- **Installation of environmental controls and traffic management, replacement of utilities, surface restoration, road reconstruction/pavement restoration, and sidewalk reconstruction.**
- **The removal of twelve timber piles from the deteriorated seawall on the Lynn shoreline.**
- **Temporary staging/HDD entry/exit pits at the Point of Pines Yacht Club parking lot in Revere and at the end of Hanson Street/Riley Way Extension in Lynn.**

The total area of temporary disturbance is 2.9 acres. There are no proposed permanent above-ground buildings or structures.

2. List anticipated MEPA review thresholds (301 CMR 11.03) (if known)

- **301 CMR 11.03(3)(b)(1)(e), which states: "New fill or structure or Expansion of existing fill or structure, except a pile-supported structure, in a velocity zone or regulatory floodway."**
- **301 CMR 11.03(3)(b)(1)(a), regarding "alteration of coastal dune, barrier beach or coastal bank."**

3. List all anticipated state, local and federal permits needed for the project (if known)

**MA WPA Notice of Intent (Order of Conditions anticipated from Revere and Lynn)
MassDEP 401 Water Quality Certification
Mass CZM Coastal Zone Consistency Determination
MWRA 8M Permit
MassDOT Street Opening Permit, Revere
MassDOT Street Opening Permit, Lynn
MassDCR Construction Access Permit
Massachusetts Historical Commission Project Notification Form (PNF) and
National Historic Preservation Act Section 106 Compliance
US Army Corps of Engineers Section 404 and 408 Permits
Chapter 91 Massachusetts Public Waterfront Act License**

4. Identify EJ populations and characteristics (Minority, Income, English Isolation) within 5 miles of project site (can attach map identifying 5-mile radius from [EJ Maps Viewer](#) in lieu of narrative)

Within 5 miles of the project site, there are EJ block groups with the following characteristics: Minority; Income; English isolation; Minority and income; Minority and English isolation; Income and English isolation; Minority, Income, and English isolation. The attached map shows the 5-mile radius from the EJ Maps Viewer.

5. Identify any municipality or census tract meeting the definition of “vulnerable health EJ criteria” in the [DPH EJ Tool](#) located in whole or in part within a 1-mile radius of the project site

There are three municipalities in part within a 1-mile radius of the project site. These are Lynn, Revere, and Saugus.

- **Lynn meets two of the Vulnerable Health EJ Criteria: Lead Poisoning (29 BLL \geq ug/dL Prevalence per 1,000) and Asthma ED Visits (130 per 10,000). For these two criteria, the rate or prevalence in Lynn is greater than 110% the rate or prevalence for the state as a whole.**
- **Revere also meets two Criteria: Heart Attack (30%) and Asthma ED Visits (111 Visits per 10,000). For these two criteria, the rate or prevalence in Revere is greater than 110% the rate or prevalence for the state as a whole.**
- **Saugus does not exceed any of the four Vulnerable Health EJ Criteria. For all four criteria, the rate or prevalence in Saugus is less than 110% the rate or prevalence for the state as a whole.**

6. Identify potential short-term and long-term environmental and public health impacts that may affect EJ Populations and any anticipated mitigation

The following impacts may affect EJ populations as well as the wider public:

- **Short-term impacts to traffic on Rice Avenue would impact residents on this street during the installation of pipeline in the roadway. Increased activity in the vicinity of the project site, including the Point of Pines parking lot, would temporarily disrupt local traffic.**
- **Short-term impacts to traffic on Hanson Street would impact traffic patterns in the commercial/industrial vicinity during the installation of pipeline in the roadway.**
- **Short-term impacts to air quality in the project area could result from the temporary operation of machinery associated with construction activities. Best management practices (BMPs) to control construction emissions would be implemented to minimize dust and emission.**
- **Short-term impacts to noise levels in the project area would occur during construction, primarily from mechanical equipment used for construction activities. Noise impacts will be minimized to the extent feasible through measures including preventing unnecessary vehicle idling.**
- **Short-term impacts to public access to the Community Path of Lynn and a segment of adjacent waterfront walking/biking trail during construction.**

These impacts are not expected to disproportionately impact EJ populations.

7. Identify project benefits, including “Environmental Benefits” as defined in 301 CMR 11.02, that may improve environmental conditions or public health of the EJ population

The project would result in the following benefits to EJ populations as well as the wider public:

- **MWRA's Section 56 Water Pipeline provides water to residents and businesses in the cities of Revere and Lynn. This project will ensure water system redundancy and reliability, which is crucial to protecting public and environmental health. Replacement of this pipeline will ensure continued water supply for consumption, fire protection, and sanitation. The EJ populations served by this pipeline, as well as the wider community, will**

benefit from the security that this pipeline replacement will bring to the area's water supply.

8. Describe how the community can request a meeting to discuss the project, and how the community can request oral language interpretation services at the meeting. Specify how to request other accommodations, including meetings after business hours and at locations near public transportation.

To request accommodations, please email or call the following:

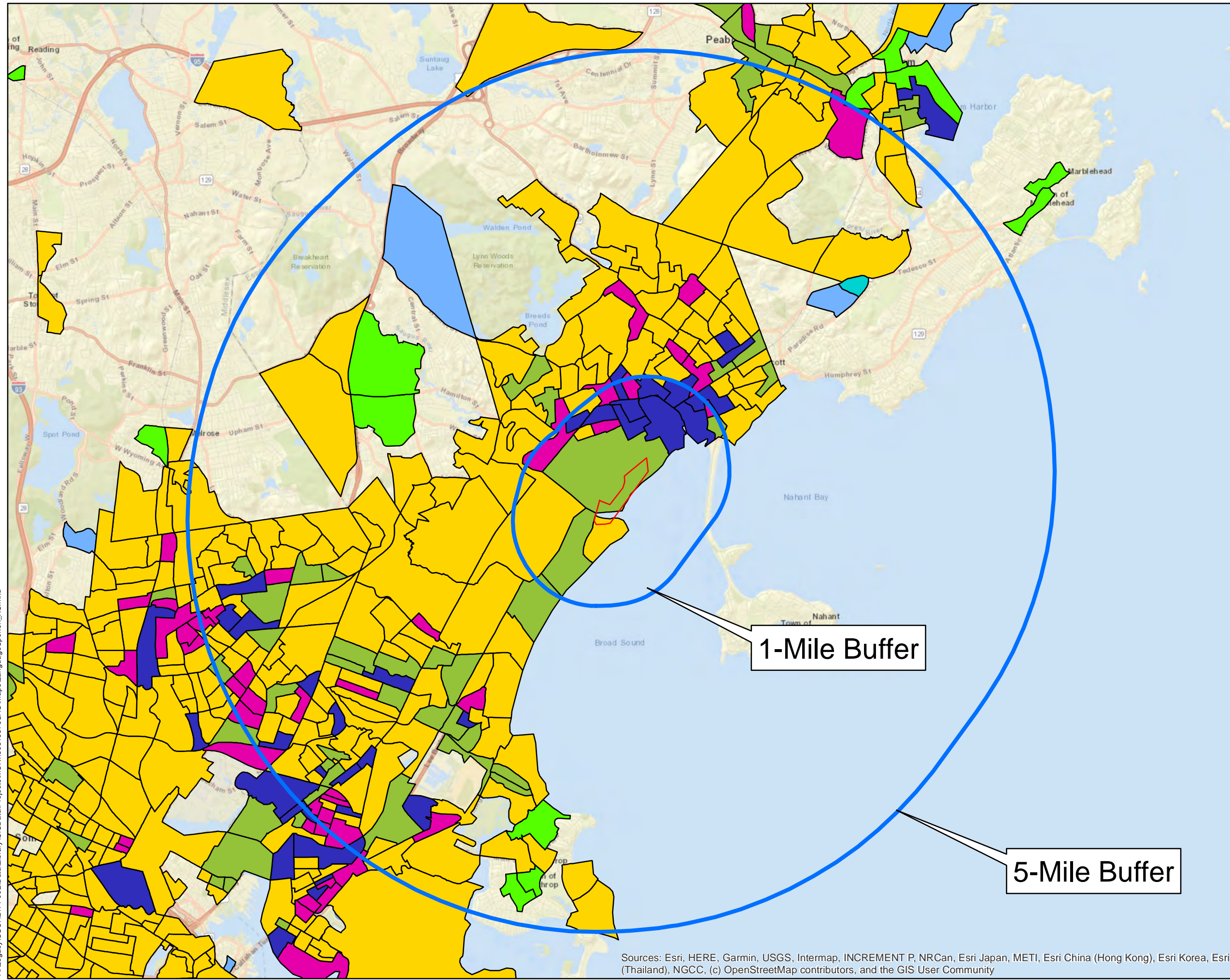
Katie Ronan, MWRA

(617) 788-1177

katherine.ronan@mwra.com

SECTION 56 SAUGUS RIVER CROSSING: 2020 ENVIRONMENTAL JUSTICE BLOCK GROUPS

- Legend**
- Limit of Work
 - 2020 Environmental Justice Block Groups**
 - EJ Criteria**
 - Minority
 - Income
 - English isolation
 - Minority and Income
 - Minority and English isolation
 - Income and English isolation
 - Minority, Income and English isolation



1-Mile Buffer

5-Mile Buffer



0 3,000 6,000 Feet

1 inch = 6,016 feet








Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

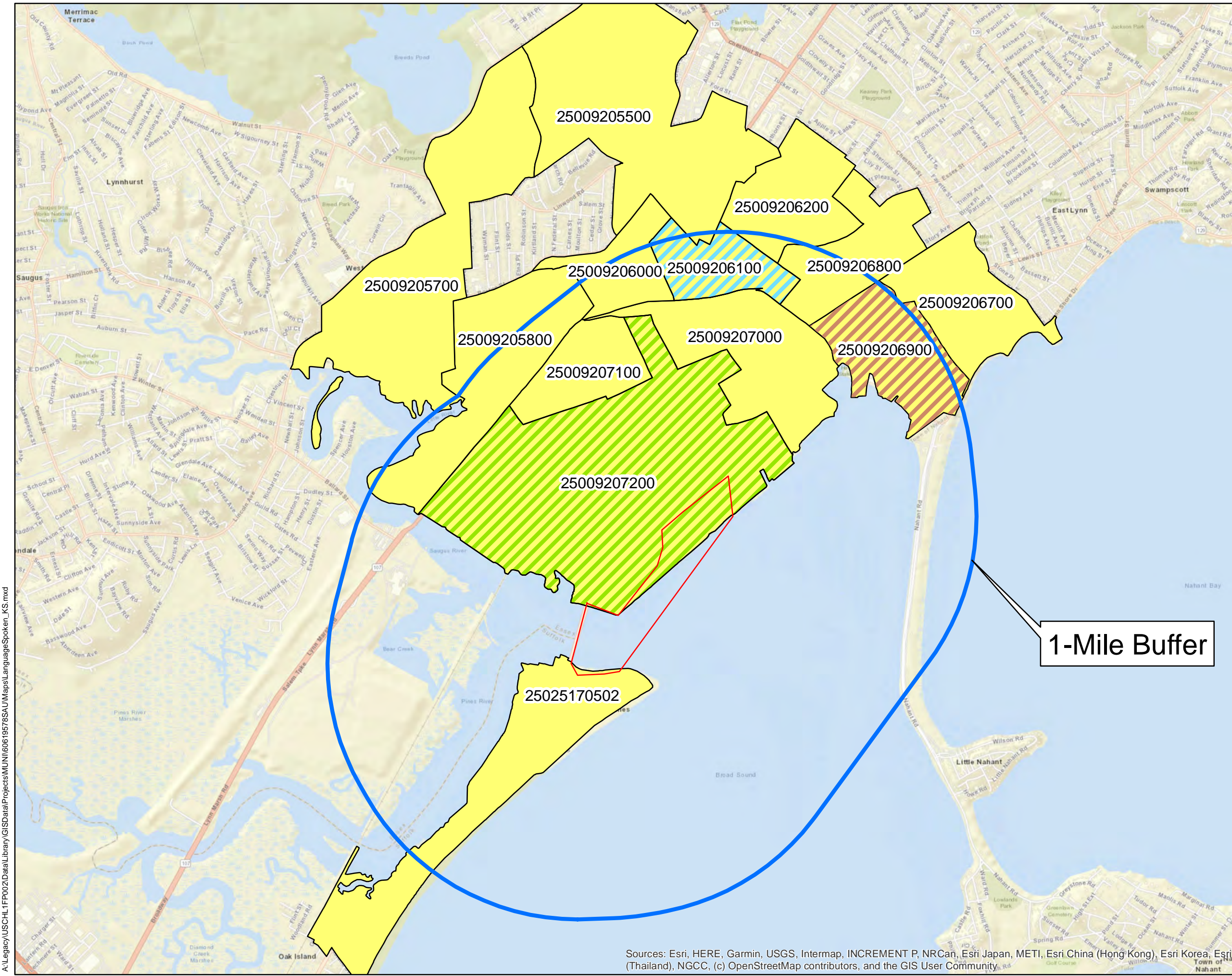
Date: 3/7/2023

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SECTION 56 SAUGUS RIVER CROSSING: LANGUAGES SPOKEN BY >5% OF PEOPLE THAT SPEAK ENGLISH LESS THAN "VERY WELL"

Legend

-  Limit of Work
-  Spanish or Spanish Creole
-  Mon-Khmer, Cambodian
-  Other Indic languages
-  Russian



1-Mile Buffer



0 1,000 2,000 Feet

1 inch = 2,000 feet



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