Fairfield and New Haven Counties, Connecticut

Coastal Storm Risk Management

Draft Feasibility Study and

Environmental Assessment

Initial Notification Letters

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

February 21, 2017

Planning Division

Dr. Brian Jones, State Archaeologist
Office of Connecticut State Archaeology, Unit 4214
University of Connecticut
Storrs, CT 06269-4214

Dear Dr. Jones:

The U.S. Army Corps of Engineers New England District (USACE) was recently provided funding to conduct a feasibility study, and has subsequently entered into a cost-sharing agreement with the Connecticut Department of Energy and Environmental Protection (DEEP), to investigate opportunities to address flood risk management, coastal storm risk management and other related purposes within New Haven and Fairfield Counties in Connecticut. Due to the broad scope of the study and large size of the study area, advanced coordination will be critical in developing an appropriate scope of work as well as conducting the study within the mandated three-year study period. Accordingly, we are hereby notifying you of this study to both inform you of our efforts as well as elicit any initial feedback you wish to provide at this time.

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Should you have any questions, comments or concerns at this time, please contact Ms. Grace Moses, of the Environmental Resources Section at (978) 318-8717, or by e-mail at C.Grace.Moses@usace.army.mil, or Byron Rupp, Study Manager at 978-318-8172, or by e-mail at Byron.R.Rupp@usace.army.mil.

Sincerely,

John R. Kennelly
Chief, Planning Branch

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

February 21, 2017

Planning Division

Mr. David H. Carey, Director
Connecticut Department of Agriculture
Bureau of Aquaculture
P.O. Box 97
Milford, CT 06460

Dear Mr. Carey:

The U.S. Army Corps of Engineers New England District (USACE) was recently provided funding to conduct a feasibility study, and has subsequently entered into a cost-sharing agreement with the Connecticut Department of Energy and Environmental Protection (DEEP), to investigate opportunities to address flood risk management, coastal storm risk management and other related purposes within New Haven and Fairfield Counties in Connecticut. Due to the broad scope of the study and large size of the study area, advanced coordination will be critical in developing an appropriate scope of work as well as conducting the study within the mandated three-year study period. Accordingly, we are hereby notifying you of this study to both inform you of our efforts as well as elicit any initial feedback you wish to provide at this time.

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Sincerely,

John R. Kennelly
Chief, Planning Branch

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

February 21, 2017

Planning Division

Ms. Deb Szaro
Regional Administrator
U.S. Environmental Protection Agency
Region I
5 Post Office Square - Suite 100
Boston, Massachusetts 02109-3912

Dear Ms. Szaro:

The U.S. Army Corps of Engineers New England District (USACE) was recently provided funding to conduct a feasibility study, and has subsequently entered into a cost-sharing agreement with the Connecticut Department of Energy and Environmental Protection (DEEP), to investigate opportunities to address flood risk management, coastal storm risk management and other related purposes within New Haven and Fairfield Counties in Connecticut. Due to the broad scope of the study and large size of the study area, advanced coordination will be critical in developing an appropriate scope of work as well as conducting the study within the mandated three-year study period. Accordingly, we are hereby notifying you of this study to both inform you of our efforts as well as elicit any initial feedback you wish to provide at this time.

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NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
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Chief, Planning Branch

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

February 21, 2017

Planning Division

Mr. John Bullard
National Marine Fisheries Service
Greater Atlantic Regional Fisheries Office
55 Great Republic Drive
Gloucester, MA 01930

Dear Mr. Bullard:

The U.S. Army Corps of Engineers New England District (USACE) was recently provided funding to conduct a feasibility study, and has subsequently entered into a cost-sharing agreement with the Connecticut Department of Energy and Environmental Protection (DEEP), to investigate opportunities to address flood risk management, coastal storm risk management and other related purposes within New Haven and Fairfield Counties in Connecticut. Due to the broad scope of the study and large size of the study area, advanced coordination will be critical in developing an appropriate scope of work as well as conducting the study within the mandated three-year study period. Accordingly, we are hereby notifying you of this study to both inform you of our efforts as well as elicit any initial feedback you wish to provide at this time.

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Chief, Planning Branch

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

February 21, 2017

Planning Division

Mr. Daniel Forrest, State Historic Preservation Officer
Department of Economic and Community,
State Historic Preservation Office
One Constitution Plaza, 2' Floor
Hartford, Connecticut 06103

Dear Mr. Forrest:

The U.S. Army Corps of Engineers New England District (USACE) was recently provided funding to conduct a feasibility study, and has subsequently entered into a cost-sharing agreement with the Connecticut Department of Energy and Environmental Protection (DEEP), to investigate opportunities to address flood risk management, coastal storm risk management and other related purposes within New Haven and Fairfield Counties in Connecticut. Due to the broad scope of the study and large size of the study area, advanced coordination will be critical in developing an appropriate scope of work as well as conducting the study within the mandated three-year study period. Accordingly, we are hereby notifying you of this study to both inform you of our efforts as well as elicit any initial feedback you wish to provide at this time.

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Chief, Planning Branch

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

February 21, 2017

Planning Division

Ms. Marissa Turnbull, Tribal Historical Preservation Officer
Natural Resources Protection & Regulatory Affairs
Mashantucket (Western) Pequot Tribal Nation
350 Trolley Line Blvd., P.O. Box 3202
Mashantucket, Connecticut 06338-3202

Dear Ms. Turnbull:

The U.S. Army Corps of Engineers New England District (USACE) was recently provided funding to conduct a feasibility study, and has subsequently entered into a cost-sharing agreement with the Connecticut Department of Energy and Environmental Protection (DEEP), to investigate opportunities to address flood risk management, coastal storm risk management and other related purposes within New Haven and Fairfield Counties in Connecticut. Due to the broad scope of the study and large size of the study area, advanced coordination will be critical in developing an appropriate scope of work as well as conducting the study within the mandated three-year study period. Accordingly, we are hereby notifying you of this study to both inform you of our efforts as well as elicit any initial feedback you wish to provide at this time.

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John R. Kennelly
Chief, Planning Branch

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

February 21, 2017

Planning Division

Mr. James Quinn, Tribal Historical Preservation Officer
Mohegan Tribe Cultural Department
5 Crow Hill Road
Uncasville, Connecticut 06382

Dear Mr. Quinn:

The U.S. Army Corps of Engineers New England District (USACE) was recently provided funding to conduct a feasibility study, and has subsequently entered into a cost-sharing agreement with the Connecticut Department of Energy and Environmental Protection (DEEP), to investigate opportunities to address flood risk management, coastal storm risk management and other related purposes within New Haven and Fairfield Counties in Connecticut. Due to the broad scope of the study and large size of the study area, advanced coordination will be critical in developing an appropriate scope of work as well as conducting the study within the mandated three-year study period. Accordingly, we are hereby notifying you of this study to both inform you of our efforts as well as elicit any initial feedback you wish to provide at this time.

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John R. Kennelly
Chief, Planning Branch

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

February 21, 2017

Planning Division

TJG Shannon Andrew
Waterways Management Division Chief
U.S. Coast Guard Sector Long Island Sound
120 Woodward Avenue
New Haven, Connecticut 06512

Dear TJG Shannon Andrew:

The U.S. Army Corps of Engineers New England District (USACE) was recently provided funding to conduct a feasibility study, and has subsequently entered into a cost-sharing agreement with the Connecticut Department of Energy and Environmental Protection (DEEP), to investigate opportunities to address flood risk management, coastal storm risk management and other related purposes within New Haven and Fairfield Counties in Connecticut. Due to the broad scope of the study and large size of the study area, advanced coordination will be critical in developing an appropriate scope of work as well as conducting the study within the mandated three-year study period. Accordingly, we are hereby notifying you of this study to both inform you of our efforts as well as elicit any initial feedback you wish to provide at this time.

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Sincerely,

John R. Kennelly
Chief, Planning Branch

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

February 21, 2017

Planning Division

Mr. Tom Chapman
U.S. Fish and Wildlife Service
New England Field Office
70 Commercial Street, Suite 300
Concord, New Hampshire 03301

Dear Mr. Chapman:

The U.S. Army Corps of Engineers New England District (USACE) was recently provided funding to conduct a feasibility study, and has subsequently entered into a cost-sharing agreement with the Connecticut Department of Energy and Environmental Protection (DEEP), to investigate opportunities to address flood risk management, coastal storm risk management and other related purposes within New Haven and Fairfield Counties in Connecticut. Due to the broad scope of the study and large size of the study area, advanced coordination will be critical in developing an appropriate scope of work as well as conducting the study within the mandated three-year study period. Accordingly, we are hereby notifying you of this study to both inform you of our efforts as well as elicit any initial feedback you wish to provide at this time.

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Sincerely,

John R. Kennelly
Chief, Planning Branch

Fairfield and New Haven Counties, Connecticut

Coastal Storm Risk Management

Feasibility Study

Initial Notification Letter Responses

United States Department of the Interior

FISH AND WILDLIFE SERVICE

New England Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5087
http://www.fws.gov/newengland

REF: Flood Risk and Coastal Storm Risk Management Feasibility, New Haven and Fairfield Counties, CT

April 20, 2017

John R. Kennelly
Chief, Planning Branch
U.S. Army Corps of Engineers
New England District
696 Virginia Road
Concord, MA 01742-2751

Dear Mr. Kennelly:

This responds to your letter, dated February 21, 2017, and received in our office on March 1, 2017, requesting initial feedback on a proposed cooperative feasibility study between the U.S. Army Corps of Engineers' (Corps) New England District and the Connecticut Department of Energy and Environmental Protection to investigate opportunities to address flood risk management, coastal storm risk management, and other related purposes within New Haven and Fairfield Counties in Connecticut. We appreciate the opportunity to provide advanced comment.

The U.S. Fish and Wildlife Service's (Service) responsibilities include administering the Endangered Species Act (87 Stat. 884, as amended: 16 U.S.C. 1531, *et seq.*) (ESA). Section 9 of the ESA and its implementing regulations prohibit the taking, including incidental taking, of any federally listed endangered or threatened species. Federal agencies can obtain exemptions to the prohibitions against take through interagency cooperation with the Service. If a project is to be funded, authorized, or carried out by a Federal agency, and may affect a listed species or designated critical habitat, the Federal agency must consult with the Service pursuant to section 7(a)(2) of the ESA.

Only federally listed species receive protection under the ESA; however, other sensitive species that could occur in the proposed project area also should be considered in the planning process. For example, many nonlisted, native bird species occur in suitable habitats in the study area, and we recommend the Corps incorporate the Migratory Bird Treaty Act (16 U.S.C. 703-712) into the planning process.

There are many ways in which addressing flood and storm risk for local communities can benefit wildlife and habitat in highly fragmented areas of New England. One way is through restoration of coastal wetlands. Wetland ecosystems reduce risk of damages during flood and storm events by absorbing and slowly releasing water. Many freshwater and tidal wetlands in New Haven and Fairfield Counties have been altered by ditching, impoundment, excavation, and road crossings, resulting in reduced wetland functionality. Storm and flood risk benefits of wetlands can be restored through restoration of natural hydrology and control of invasive species, such as the common reed (*Phragmites australis*). Wetland restoration also benefits many fish and wildlife species by providing essential habitat and improving terrestrial and aquatic habitat connectivity. In addition to tidal wetlands, beach and dune habitat can also absorb wave energy during storms and provide necessary habitat for migratory birds. Some species listed under the ESA that may benefit from coastal ecosystem restoration include the piping plover (*Charadrius melodus*), red knot (*Calidris canutus rufa*), and roseate tern (*Sterna dougallii dougallii*).

Thank you for including environmental considerations as a component of your planning process. We look forward to working with you as the planning process moves forward. If you have any questions or concerns, please contact Ms. Eliese Dykstra of this office at (603) 227-6427.

Sincerely yours,

Acting for Thomas R. Chapman
Supervisor
New England Field Office

Fairfield and New Haven Counties, Connecticut

Coastal Storm Risk Management

Feasibility Study

Resource Agency Meeting Letters

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Mr. Peter Aarrestad, Director
Fisheries Division
Bureau of Natural Resources
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Dear Mr. Aarrestad:

The U.S. Army Corps of Engineers (Corps), New England District (District) invites you and/or a member(s) of your staff to participate in a telephone conference and webinar for the New Haven and Fairfield Counties, Connecticut Coastal Storm Risk Management Feasibility Study. This study is authorized in a resolution approved by the Committee on Transportation and Infrastructure of the United States House of Representatives, dated April 29, 2010. Due to the broad scope of the study and large size of the study area, we are hosting a webinar rather than a coordinated site visit to provide information about the initial set of alternatives the District is evaluating to address coastal storm risk management in the area. The District will produce a Draft Integrated Feasibility Report and Environmental Assessment which is scheduled to be released in late June 2019 for public and agency review.

The study was initiated in 2016 when the District conducted an analysis for the Fairfield and New Haven County area utilizing the North Atlantic Coastal Comprehensive Study. This analysis concluded that there is a Federal interest in continuing with a feasibility study to examine coastal storm damage reduction in the two counties. The study area includes approximately 1,700 square miles of land within the state of Connecticut, ranging from agricultural/rural towns, moderately developed suburbs, to densely populated cities, and stretching from inland riverine watersheds to coastal communities.

The District refined the scope of the study area to focus on those areas where the greatest opportunity exists for the Corps to improve conditions and/or reduce coastal storm and flood damages. The proposed areas for detailed examination are approximately 4.75 square miles along the southern coast of the Town of Fairfield (Attachment 1) and approximately 1.5 square miles along the Long Wharf section of the

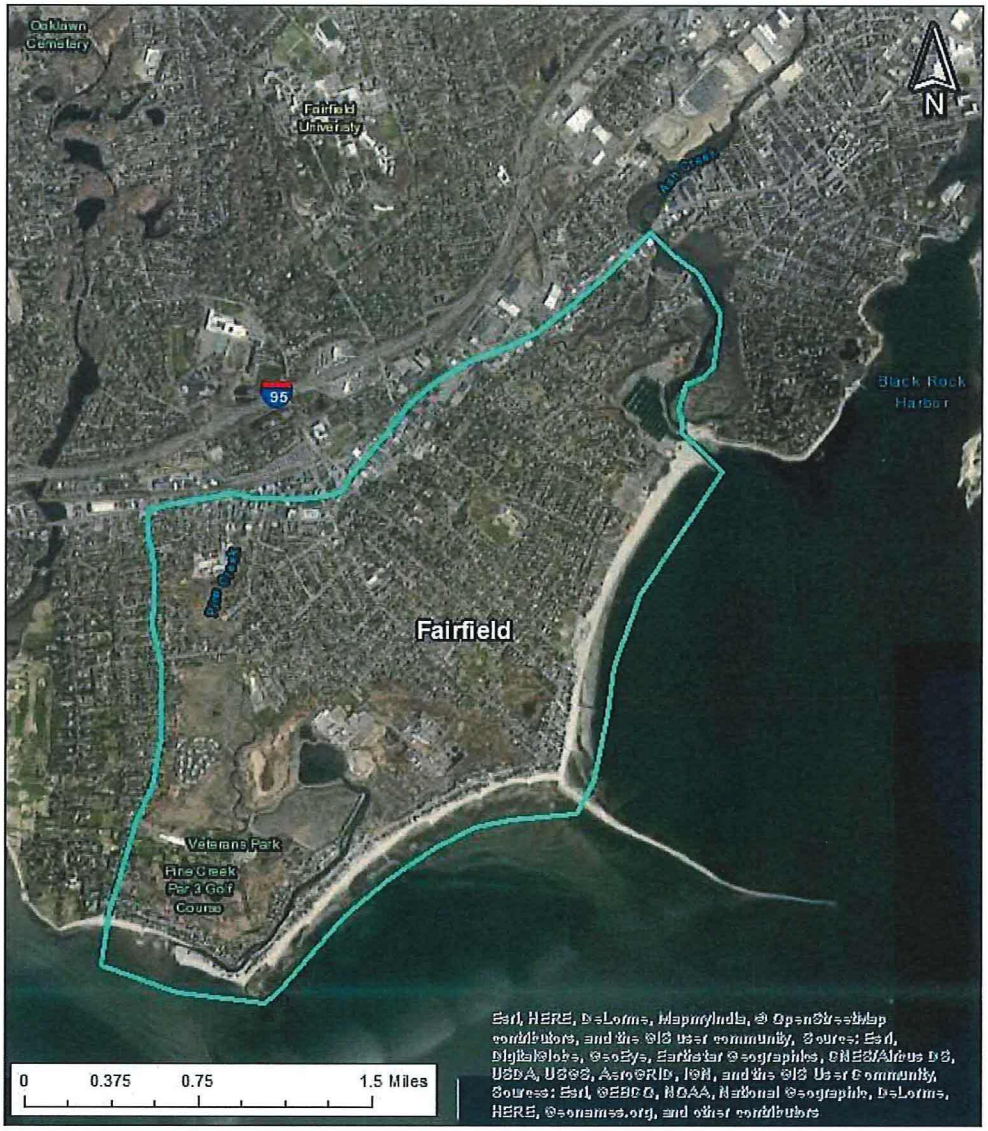
City of New Haven (Attachment 2). The general water resource problem to be addressed is the vulnerability of these areas to storm damage from wave attack, storm surge and erosion. Potential solutions being evaluated include structural and non-structural solutions.

We would appreciate your participation in the webinar on March 28, 2019 from 10am to noon in order to gain your initial input on the proposed alternatives. We request written comments be provided within 30 days of the webinar to Ms. Grace Moses of the Environmental Resources Section at C.Grace.Moses@usace.army.mil. Should you have any questions in the interim, please contact Ms. Grace Moses at (978) 318-8717, or Byron Rupp, Study Manager at 978-318-8172, or by e-mail at Byron.R.Rupp@usace.army.mil.

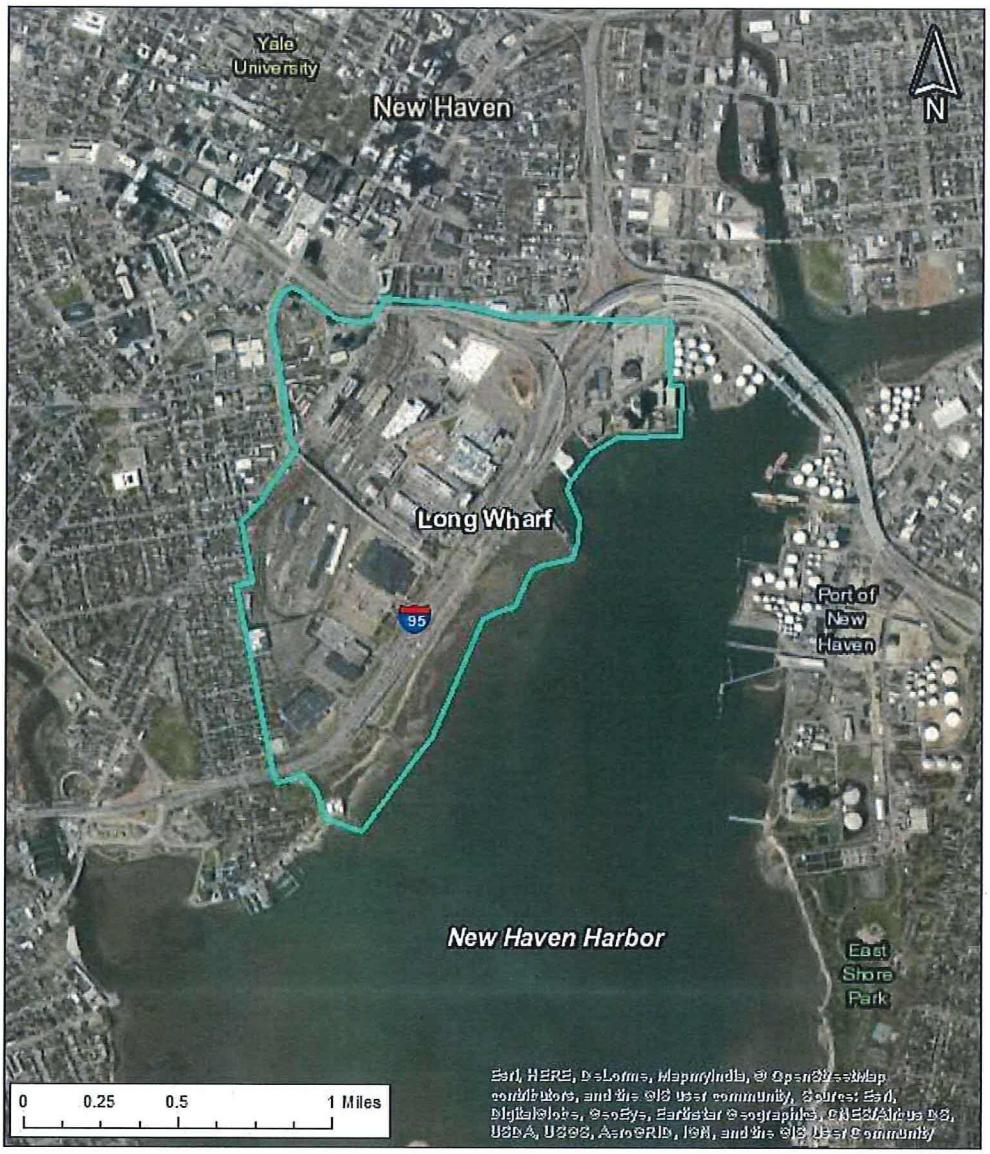
Sincerely,

John R. Kennelly
Chief, Planning Division

Attachment 1. Study Area in Fairfield, Connecticut



Attachment 2. Study Area in New Haven, Connecticut



DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Mr. David Blatt, Supervisor
Planning Section
Land and Water Resources Division
Bureau of Water Protection and Land Reuse
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Dear Mr. Blatt:

The U.S. Army Corps of Engineers (Corps), New England District (District) invites you and/or a member(s) of your staff to participate in a telephone conference and webinar for the New Haven and Fairfield Counties, Connecticut Coastal Storm Risk Management Feasibility Study. This study is authorized in a resolution approved by the Committee on Transportation and Infrastructure of the United States House of Representatives, dated April 29, 2010. Due to the broad scope of the study and large size of the study area, we are hosting a webinar rather than a coordinated site visit to provide information about the initial set of alternatives the District is evaluating to address coastal storm risk management in the area. The District will produce a Draft Integrated Feasibility Report and Environmental Assessment which is scheduled to be released in late June 2019 for public and agency review.

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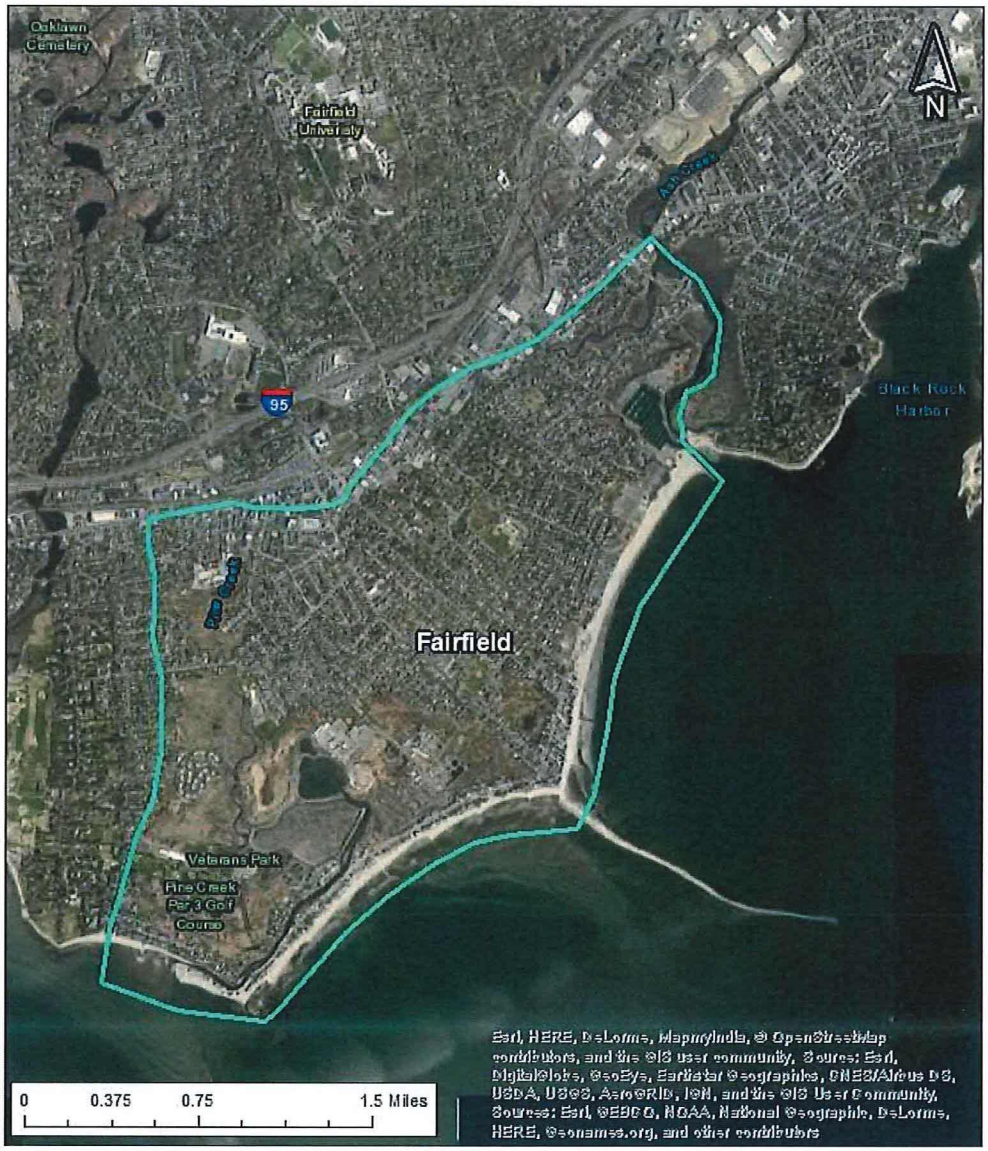

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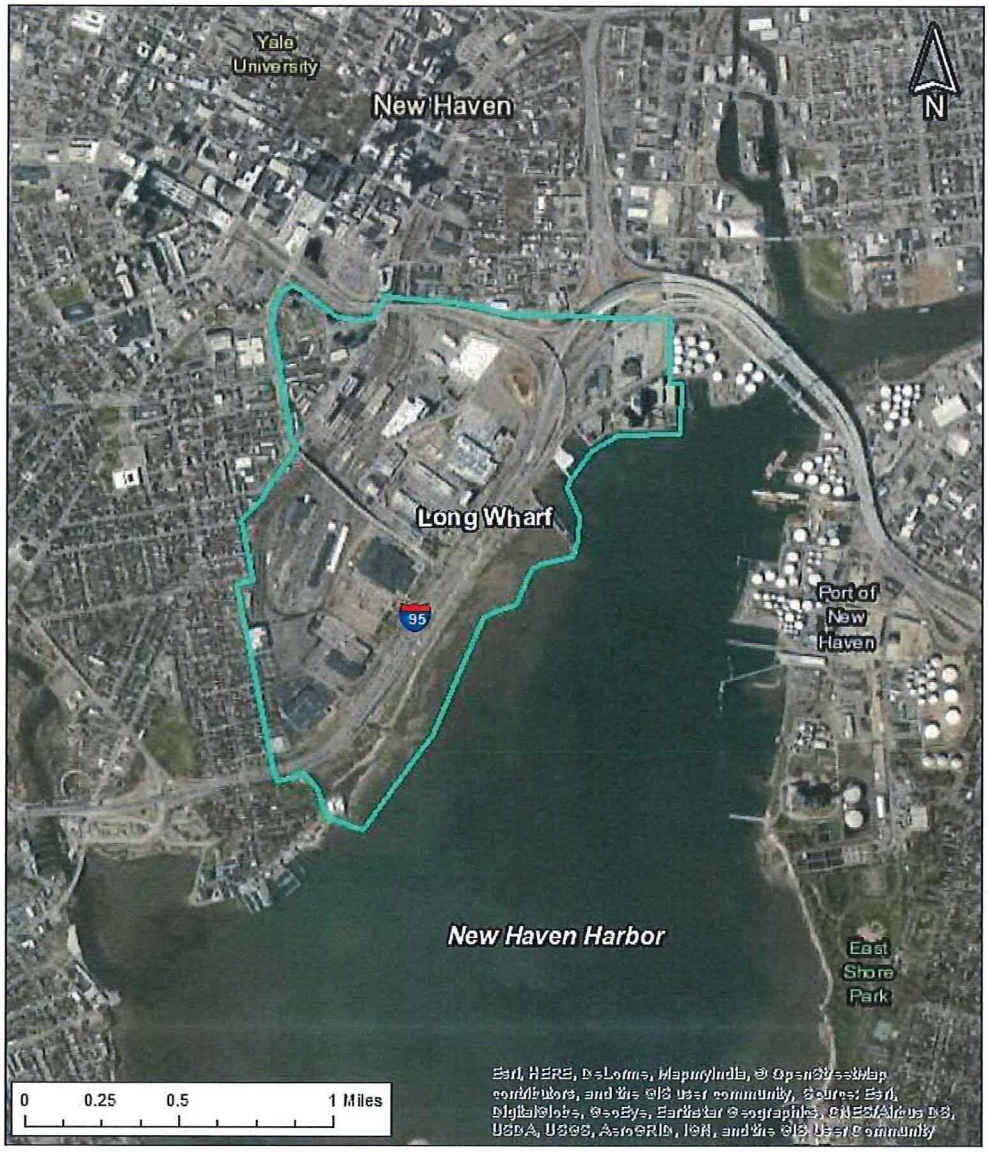

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Mr. Jeff Caiola, Assistant Director
Land and Water Resources Division
Bureau of Water Protection and Land Reuse
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

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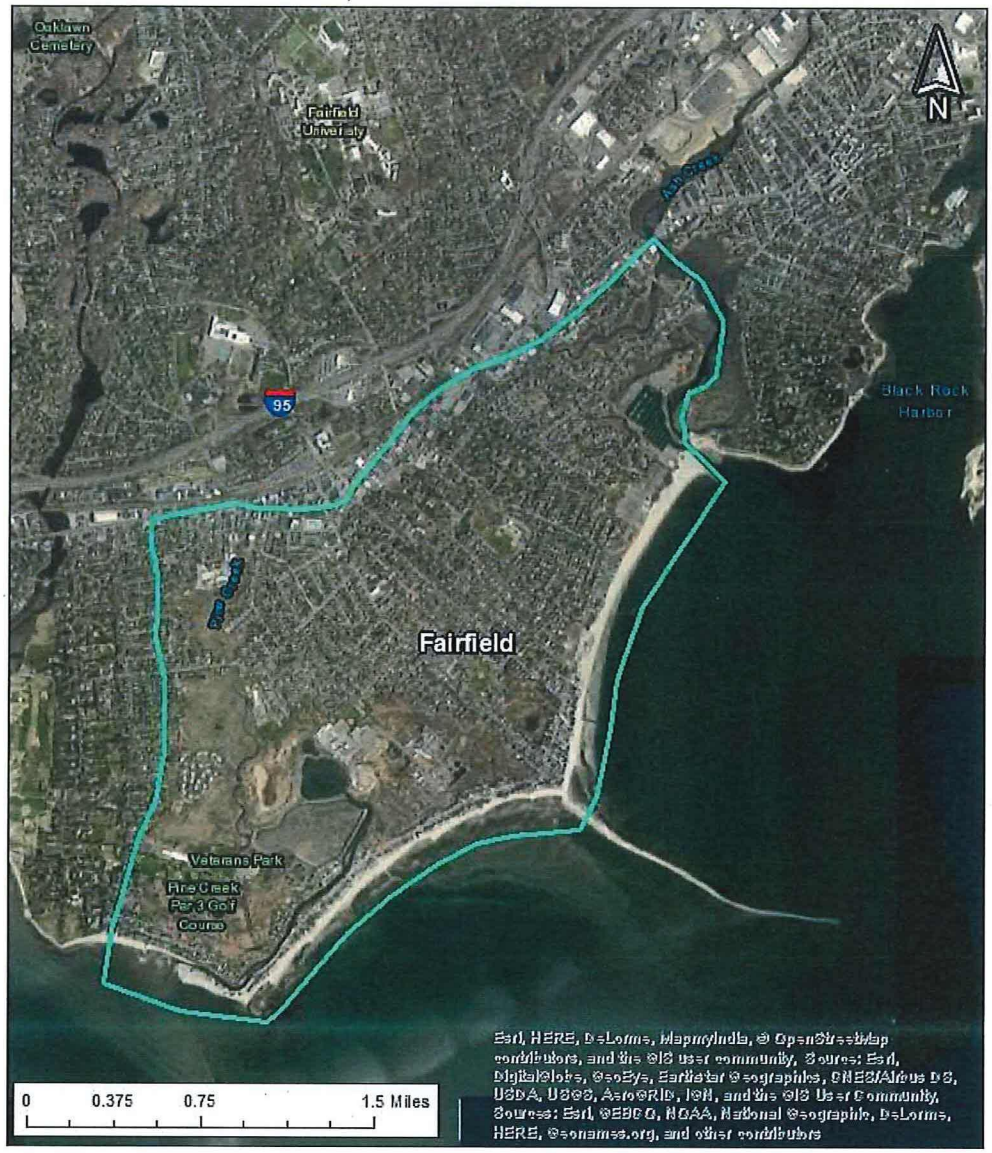

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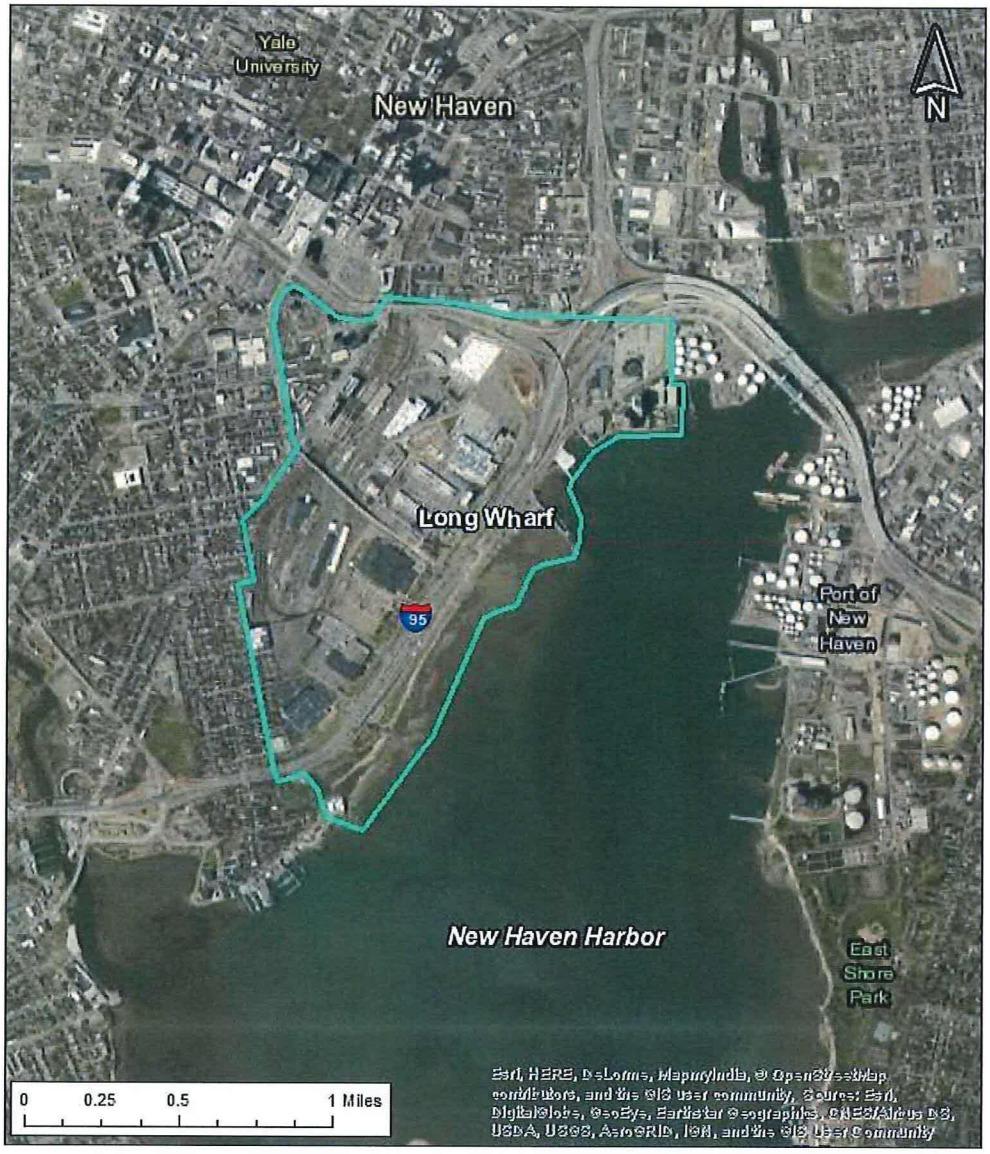

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US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Ms. Katie Dykes, Commissioner
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Dear Ms. Dykes:

The U.S. Army Corps of Engineers (Corps), New England District (District) invites you and/or a member(s) of your staff to participate in a telephone conference and webinar for the New Haven and Fairfield Counties, Connecticut Coastal Storm Risk Management Feasibility Study. This study is authorized in a resolution approved by the Committee on Transportation and Infrastructure of the United States House of Representatives, dated April 29, 2010. Due to the broad scope of the study and large size of the study area, we are hosting a webinar rather than a coordinated site visit to provide information about the initial set of alternatives the District is evaluating to address coastal storm risk management in the area. The District will produce a Draft Integrated Feasibility Report and Environmental Assessment which is scheduled to be released in late June 2019 for public and agency review.

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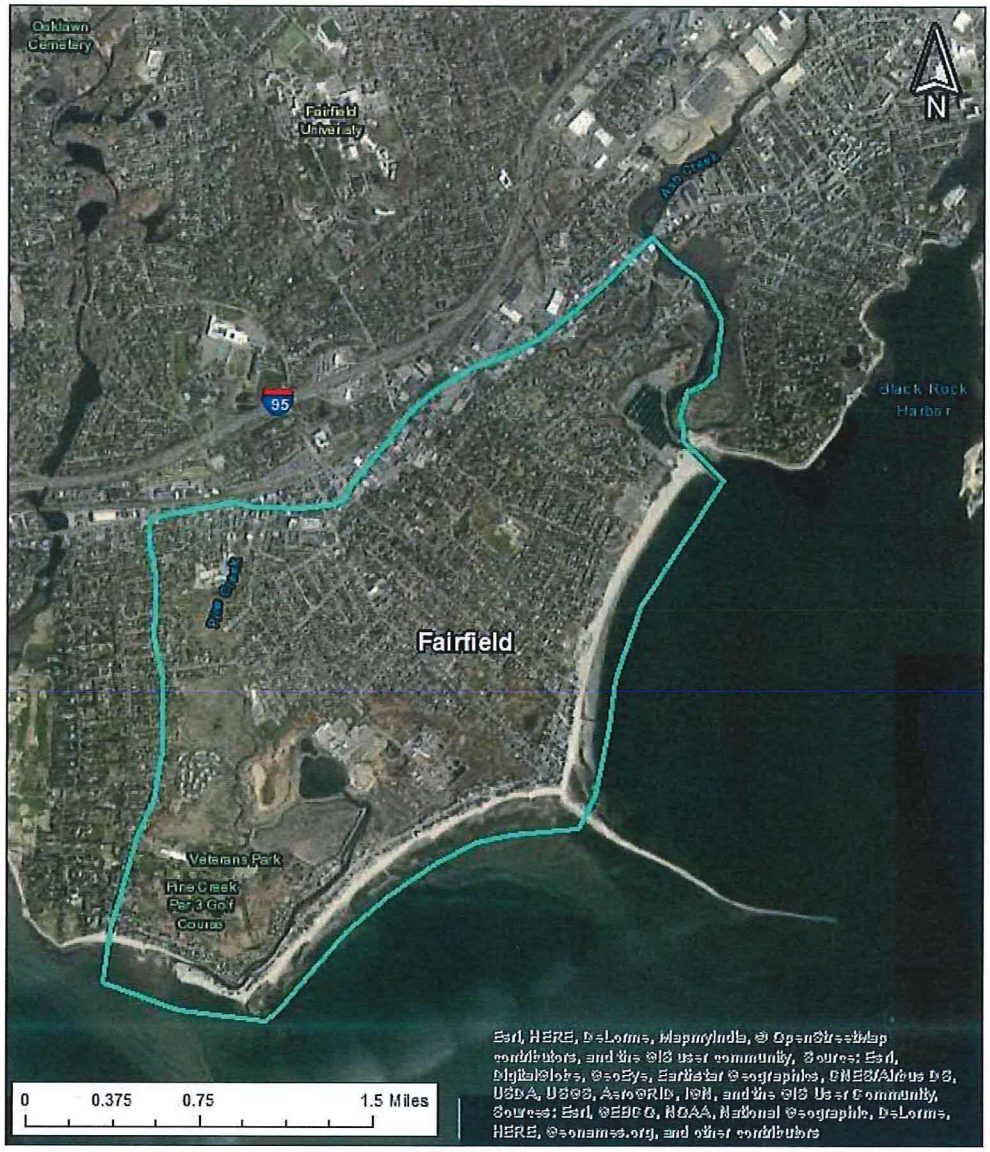
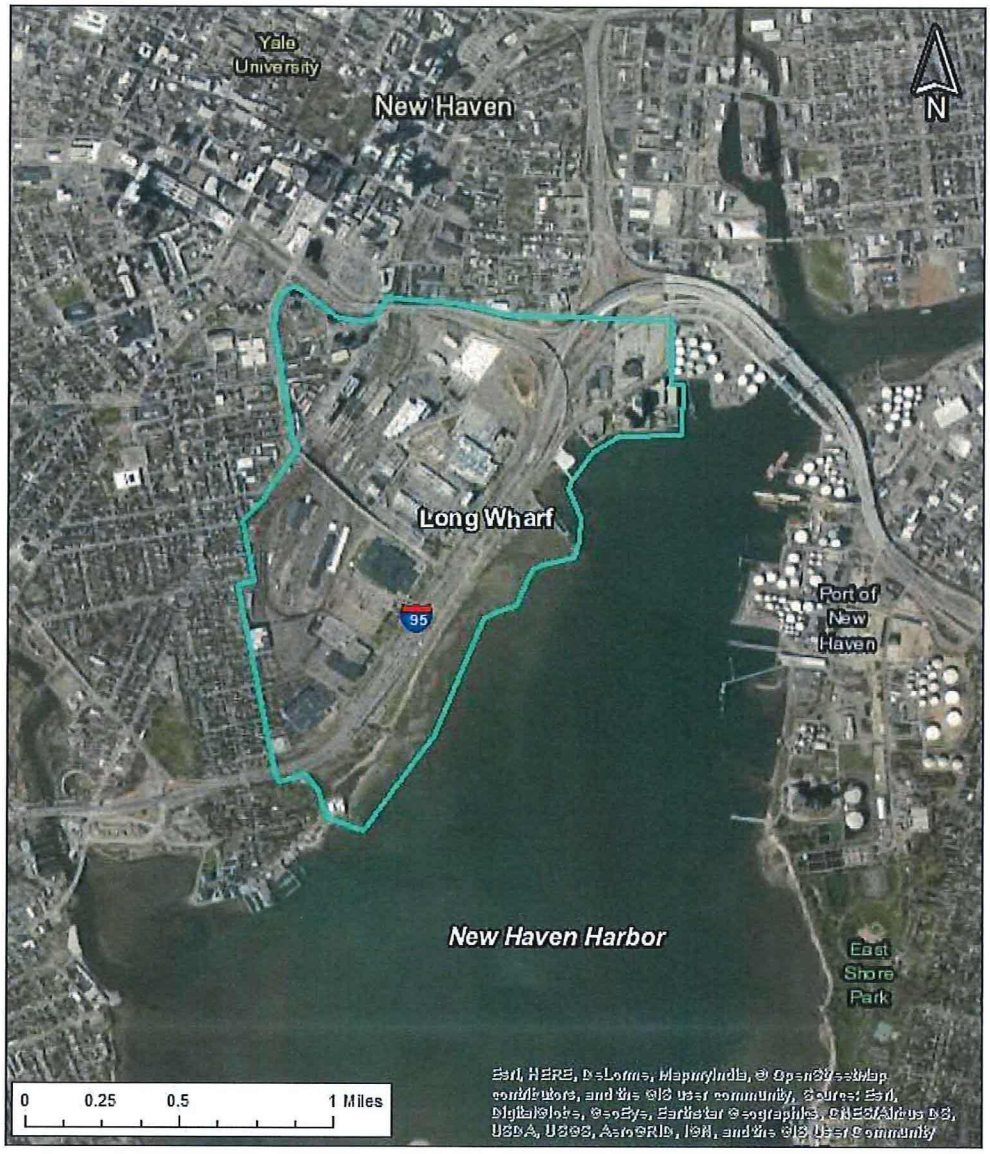
Sincerely,

John R. Kennelly
Chief, Planning Division

Attachment 1. Study Area in Fairfield, Connecticut



Attachment 2. Study Area in New Haven, Connecticut



DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Mr. Rick Jacobson, Chief
Bureau of Natural Resources
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Dear Mr. Jacobson:

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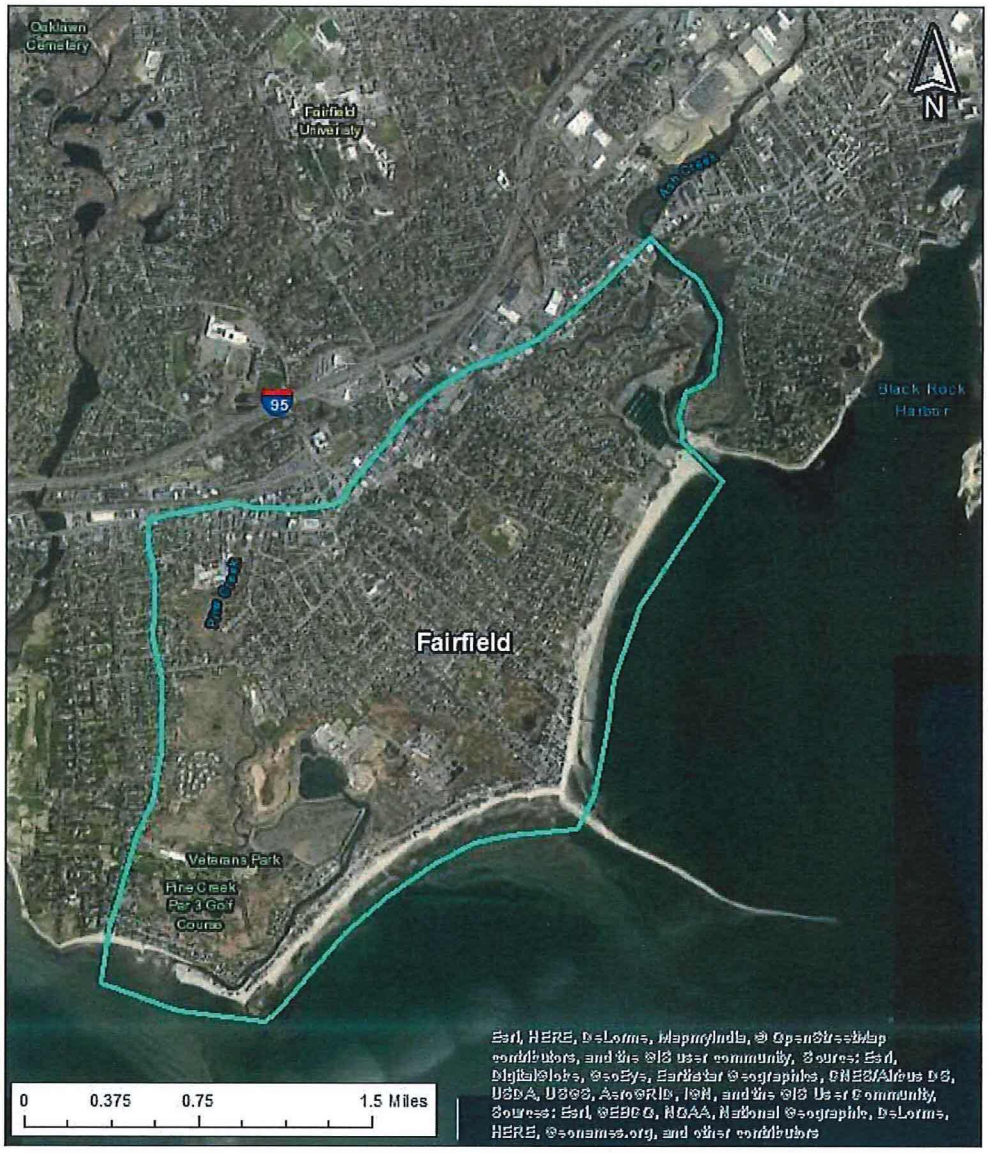

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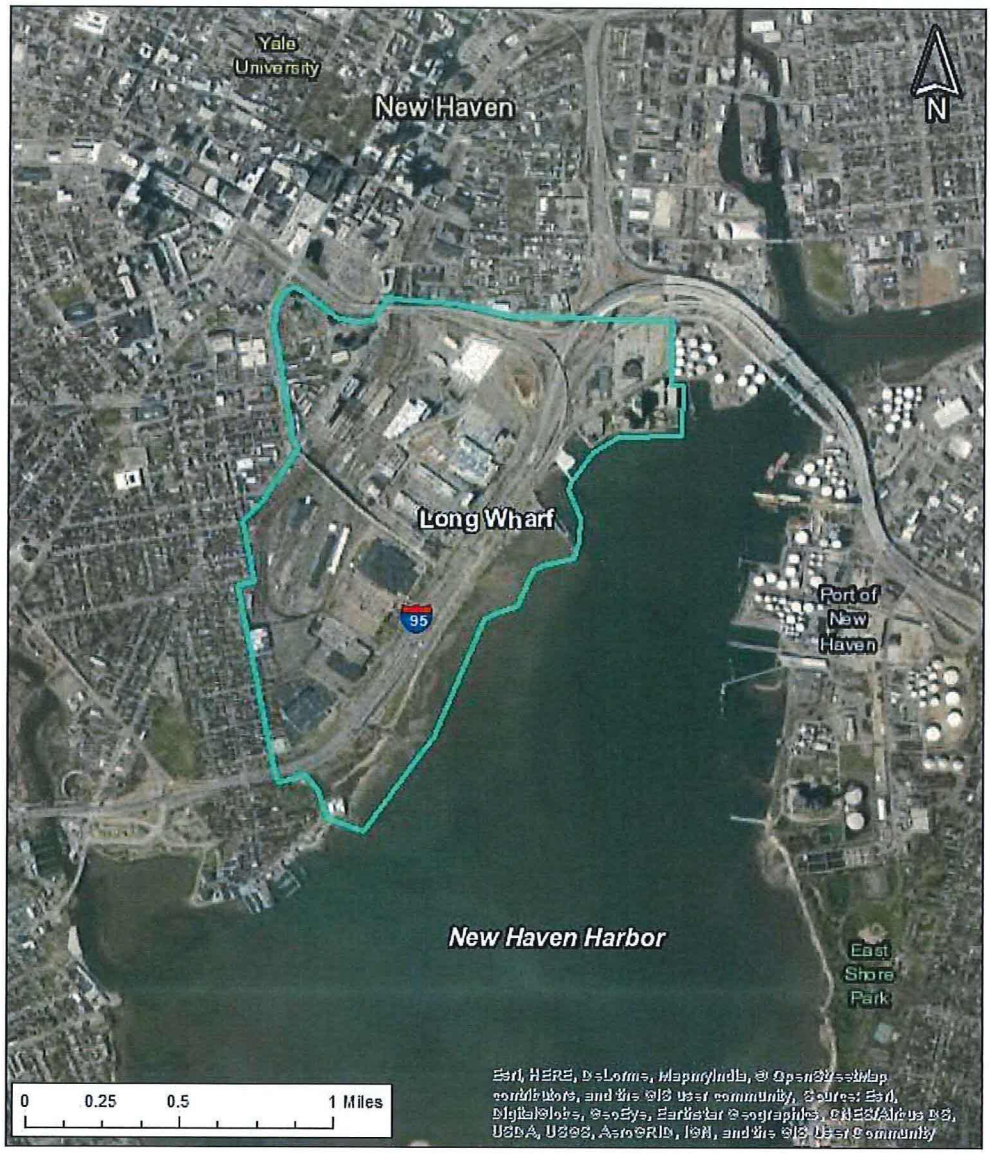

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Ms. Karen Michaels
Planning Section
Land and Water Resources Division
Bureau of Water Protection and Land Reuse
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Dear Ms. Michaels:

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Chief, Planning Division

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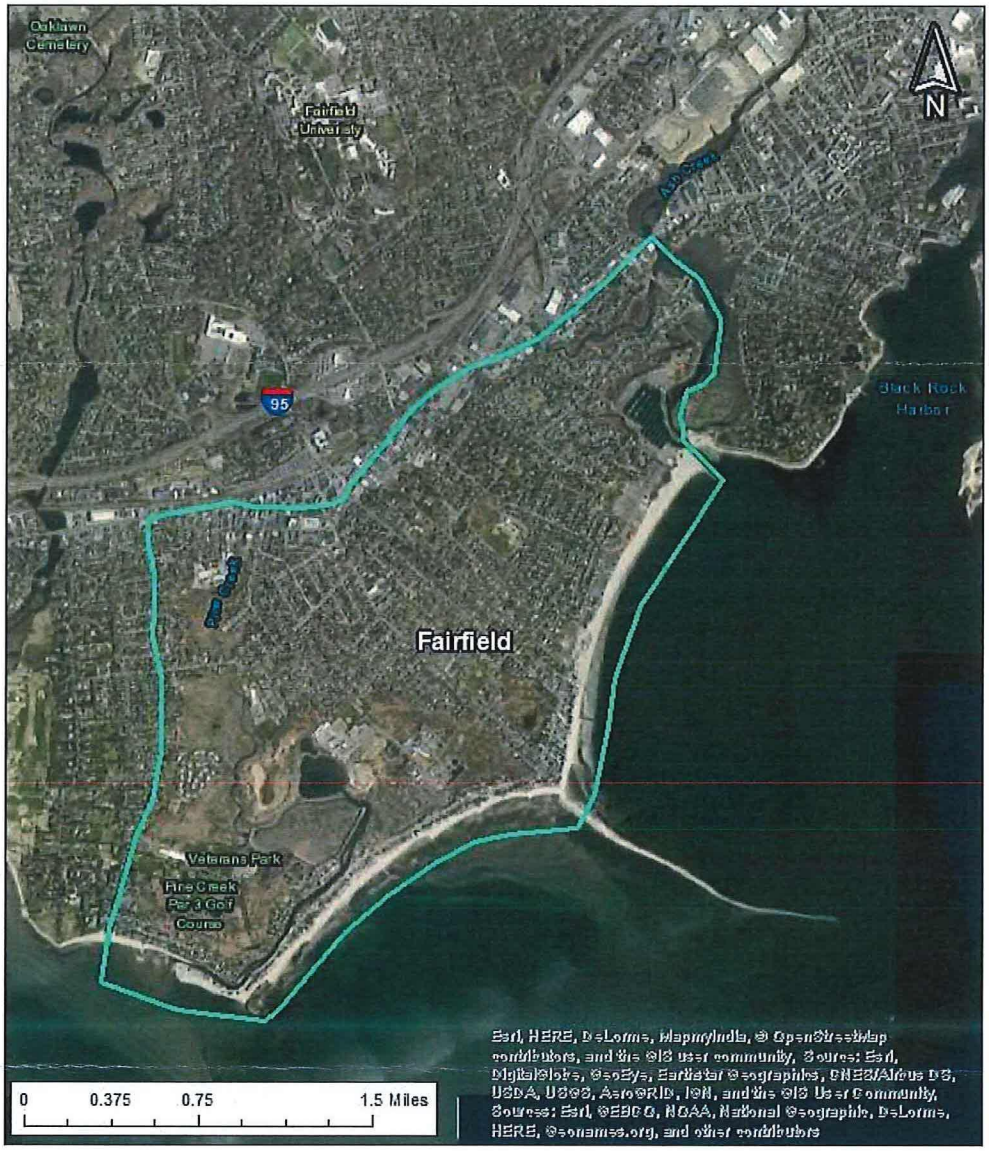

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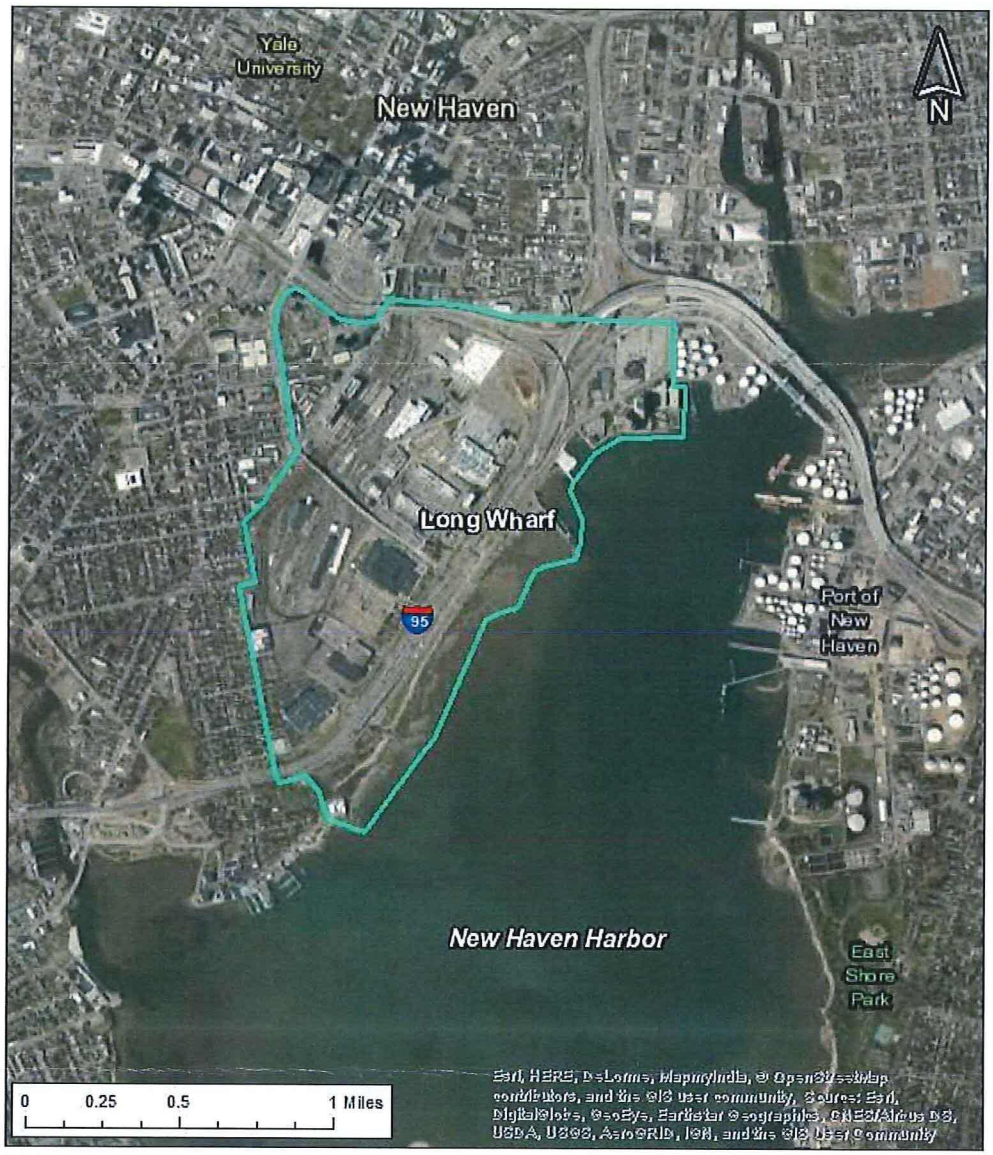

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Mr. Brian Thompson, Director
Land and Water Resources Division
Bureau of Water Protection and Land Reuse
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Dear Mr. Thompson:

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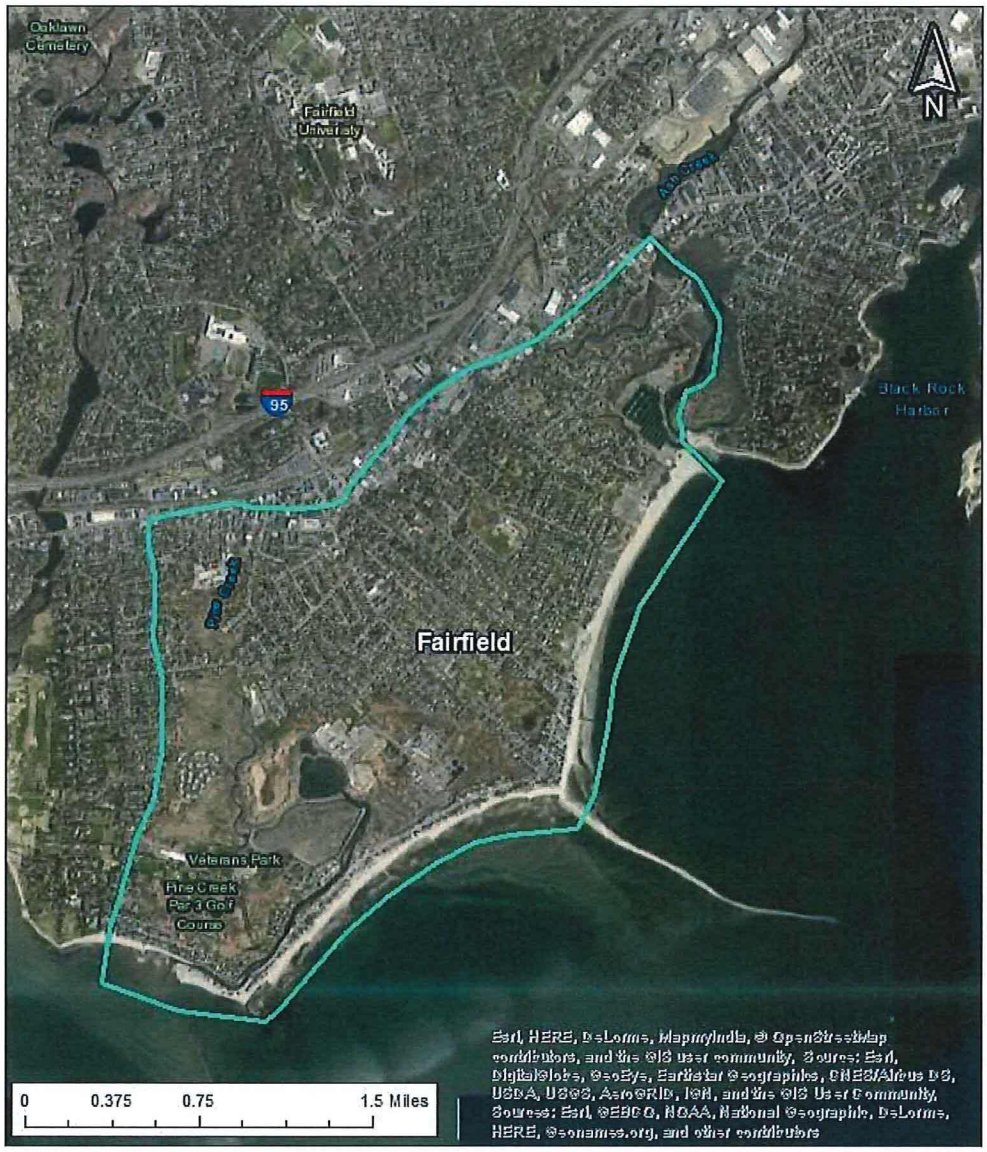

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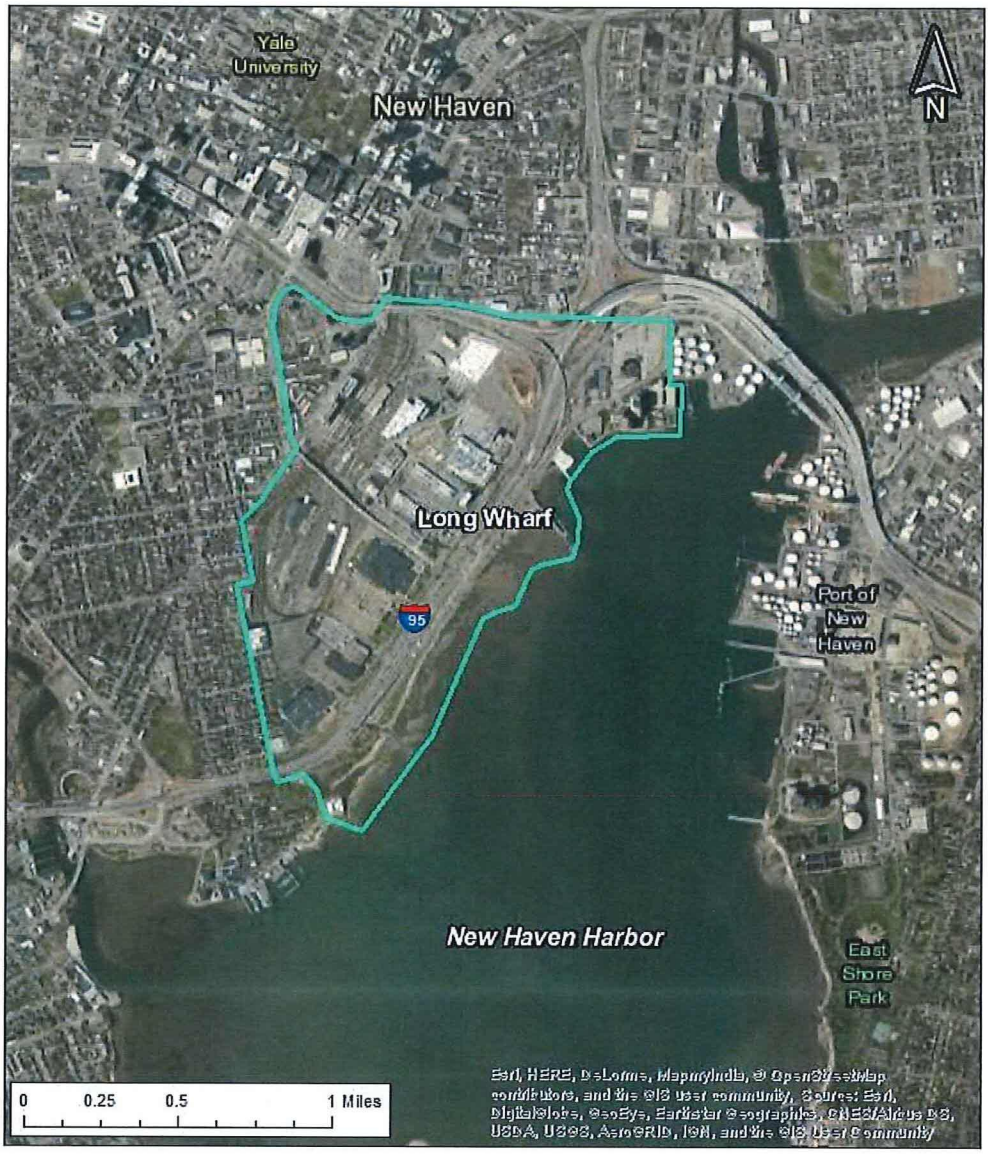

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Ms. Betsey Wingfield, Chief
Bureau of Water Protection and Land Reuse
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Dear Ms. Wingfield:

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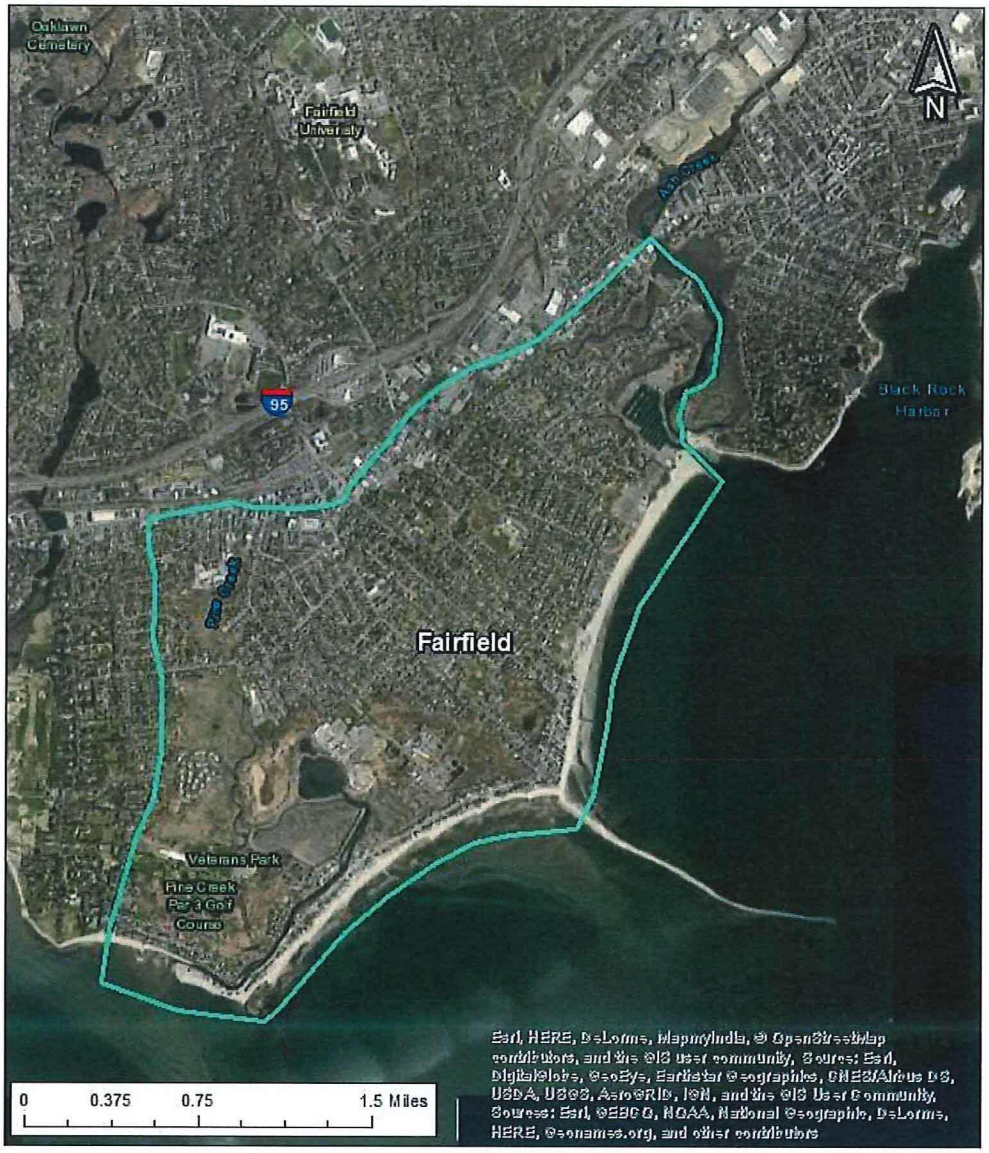

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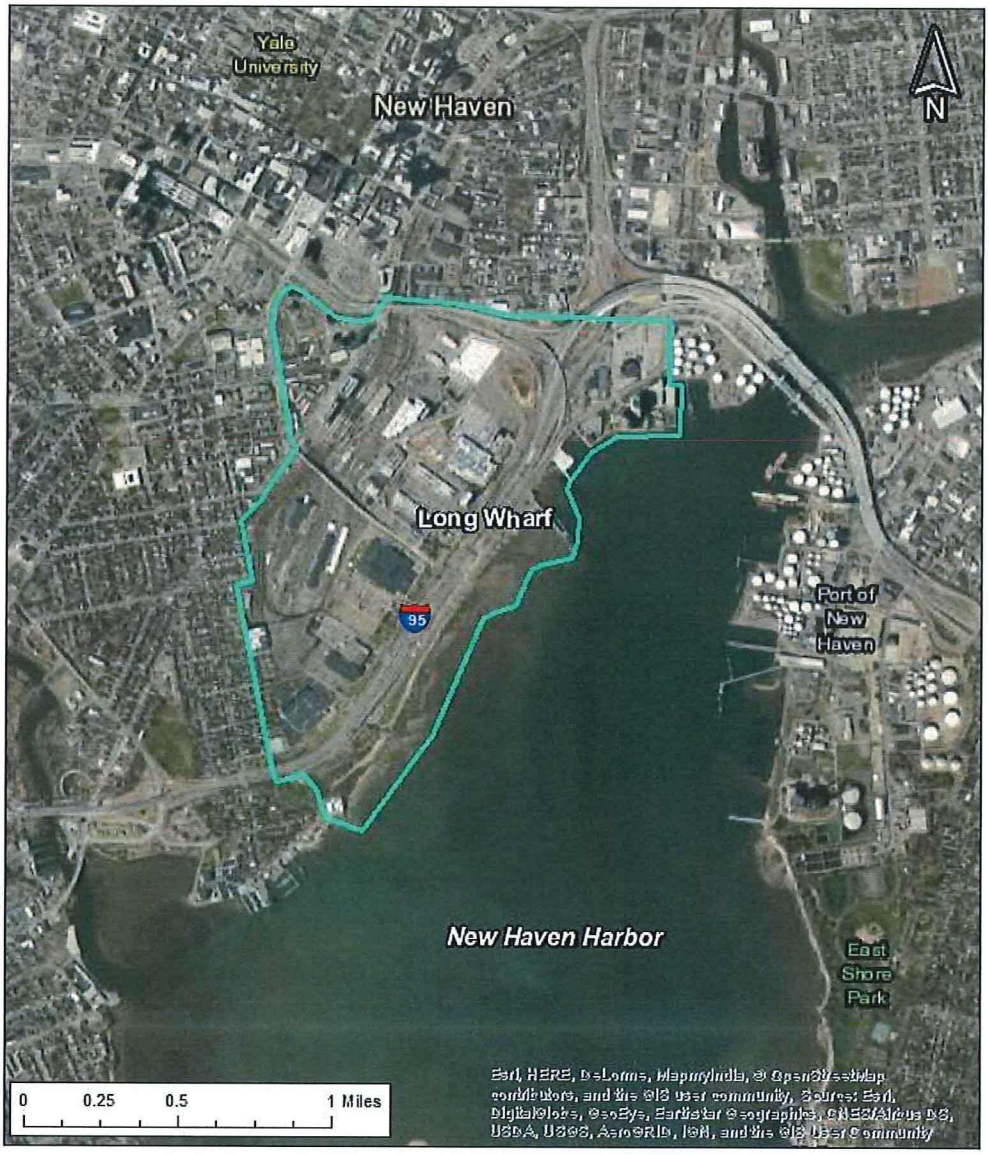

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Mr. Ken Moraff, Director
Office of Ecosystem Protection
U.S. Environmental Protection Agency, Region 1
5 Post Office Square – Suite 100
Boston, MA 02109-3912

Dear Mr. Moraff:

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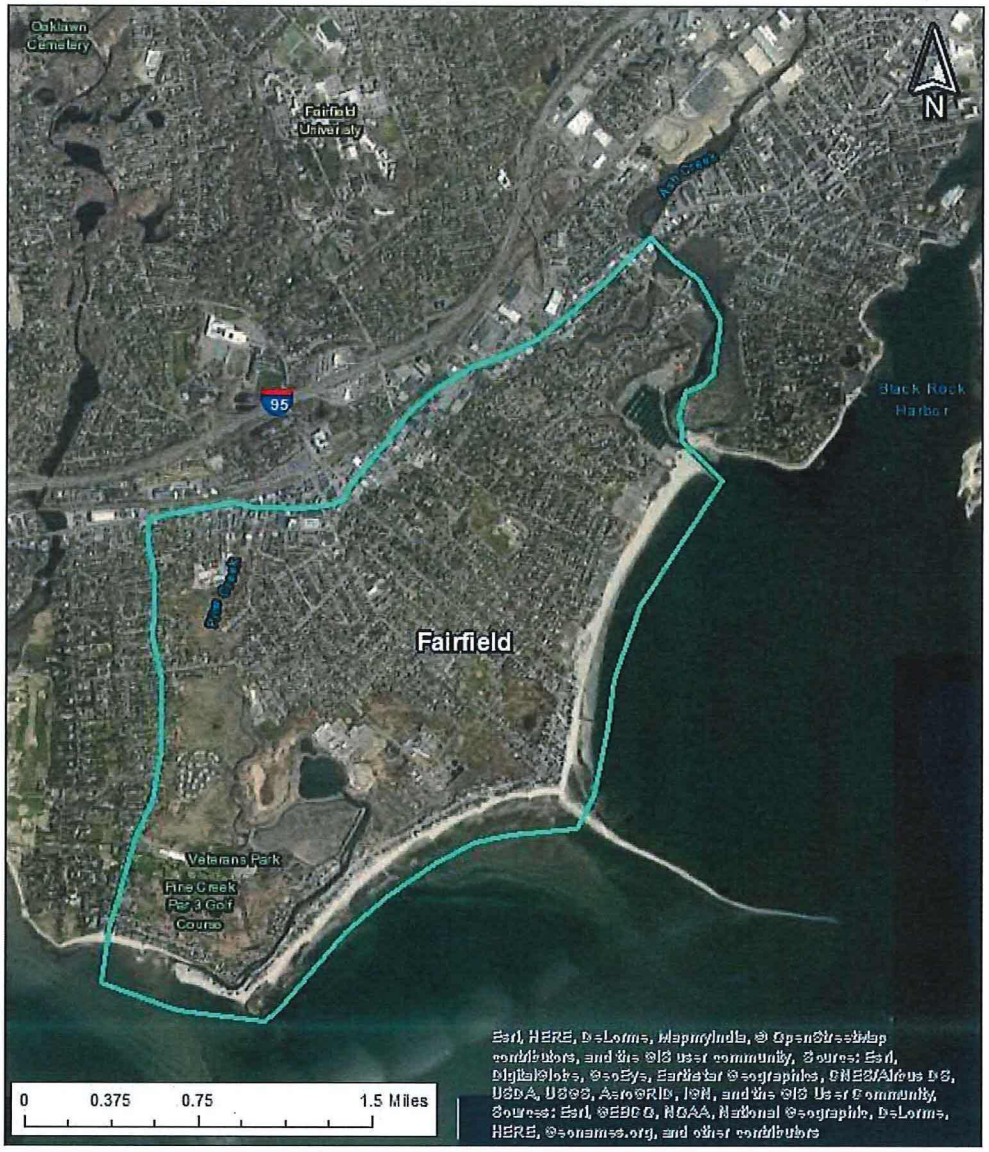

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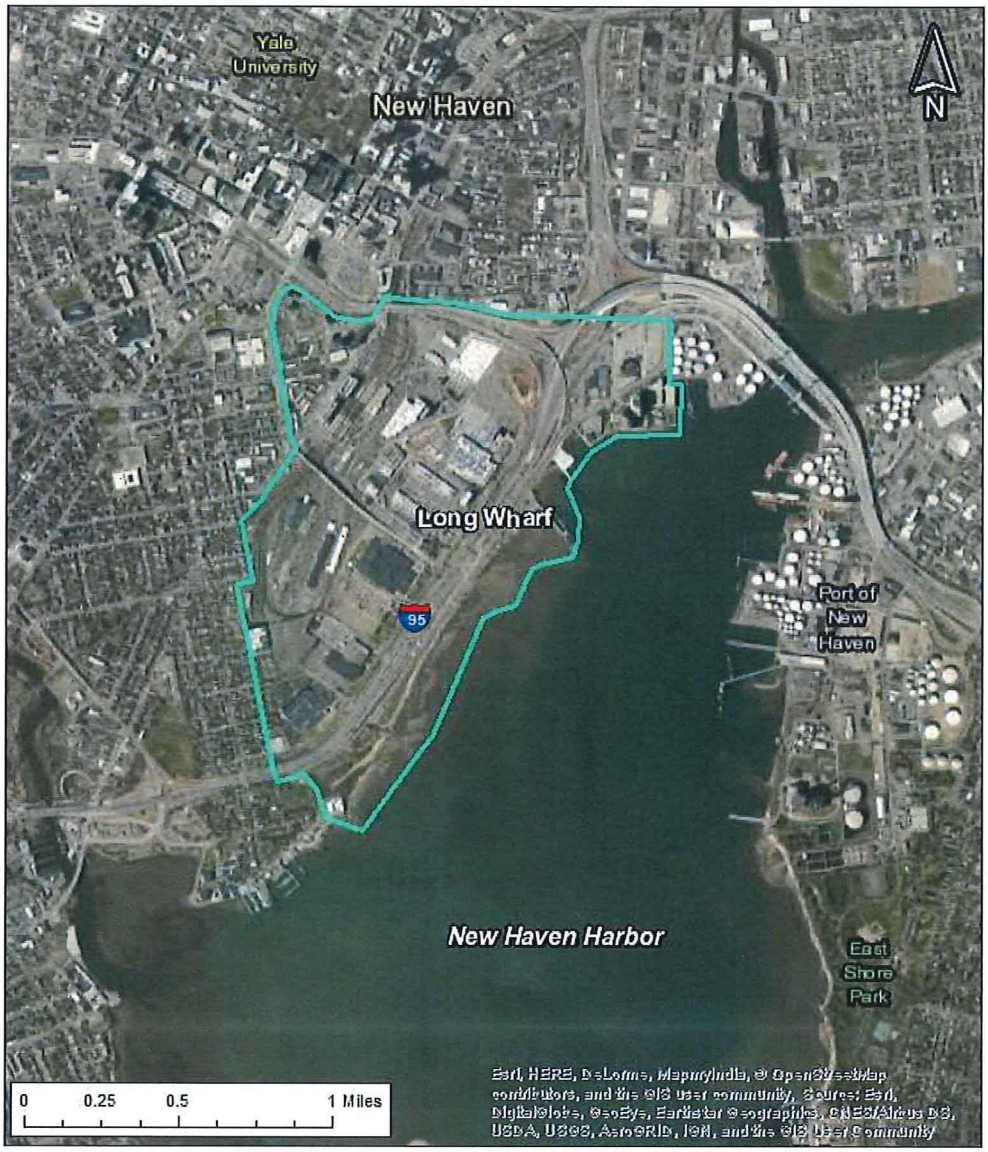

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Ms. Deb Szaro
Regional Administrator
U.S. Environmental Protection Agency
Region I
5 Post Office Square - Suite 100
Boston, MA 02109-3912

Dear Ms. Szaro:

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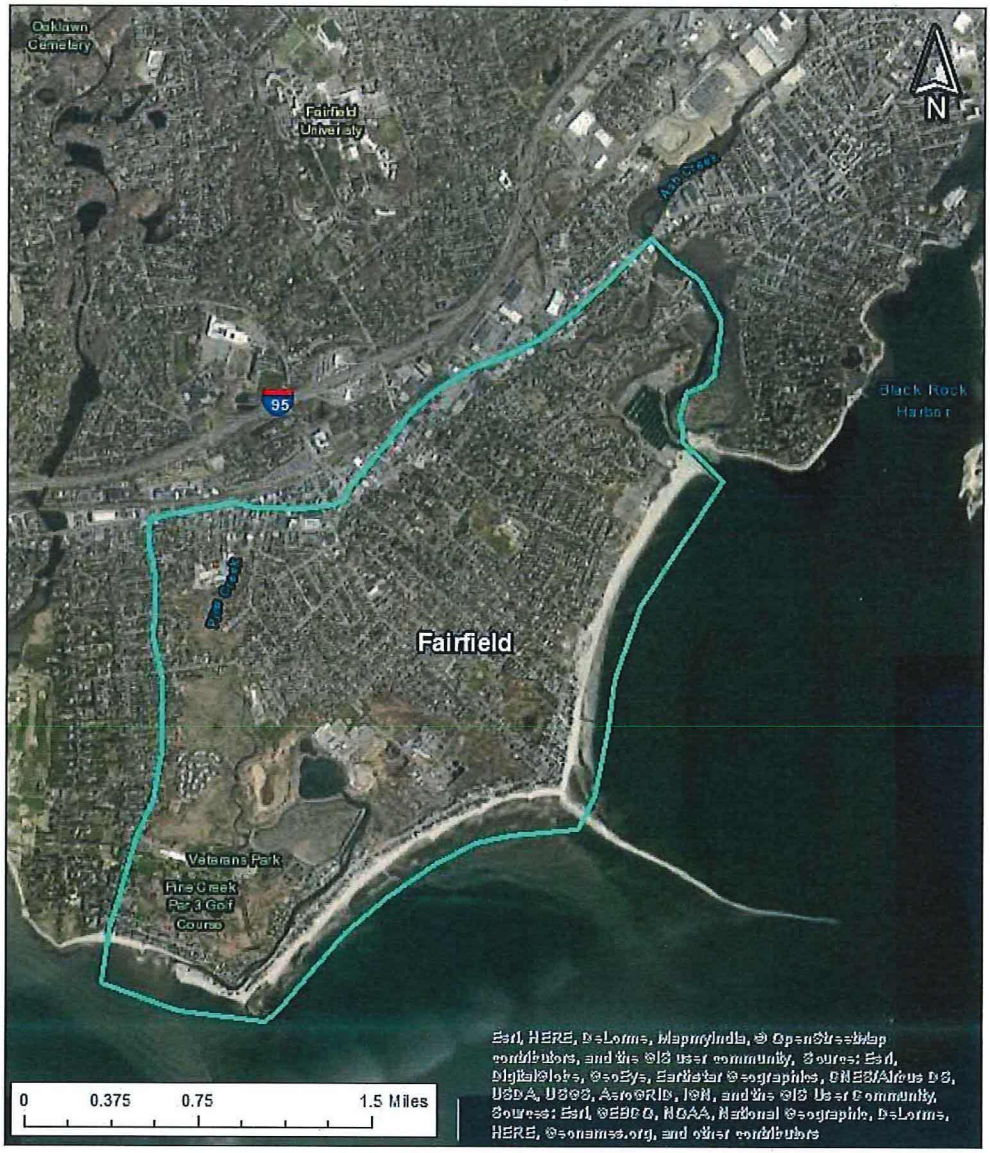

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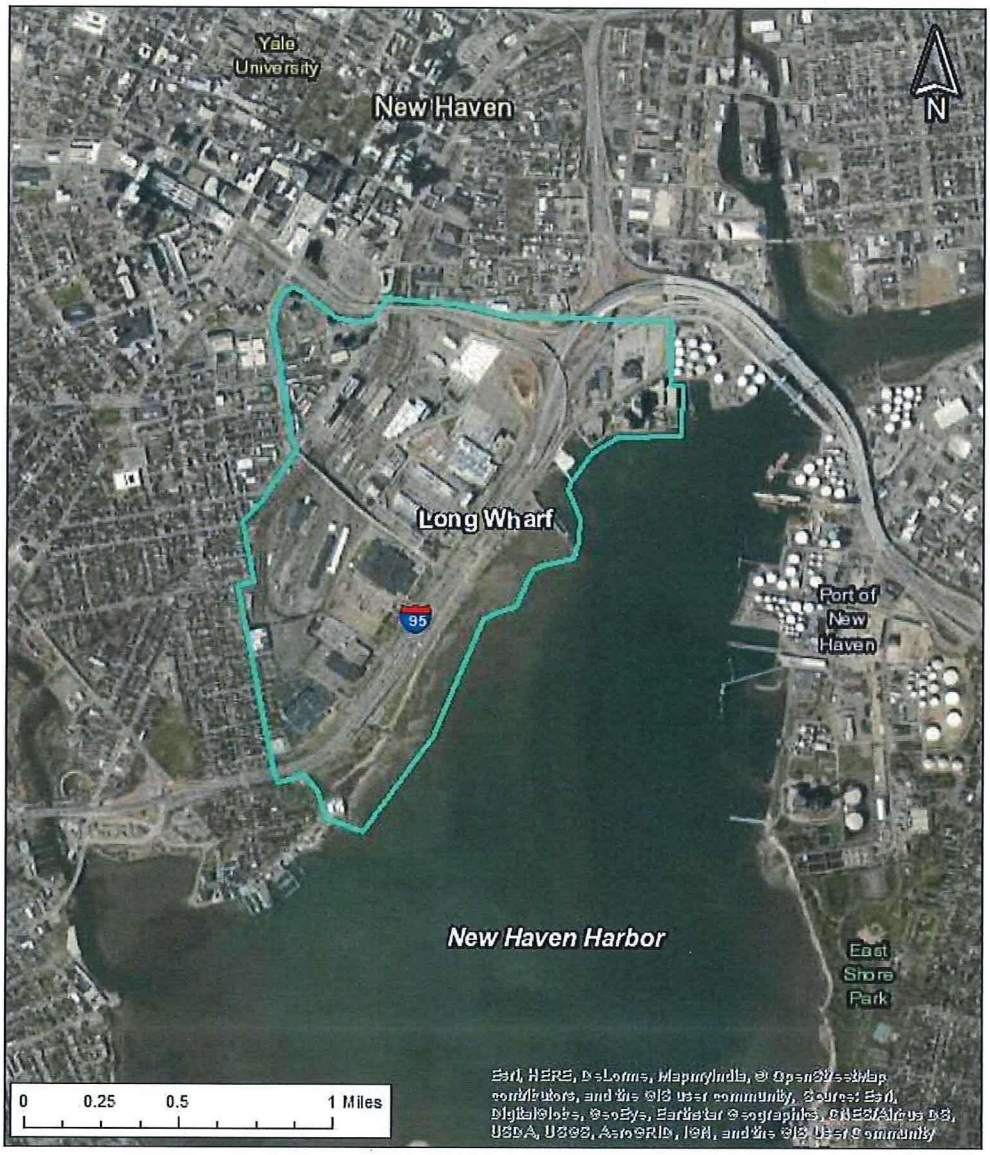

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Mr. Timothy Timmermann, Associate Director
NEPA Office
U.S. Environmental Protection Agency, Region 1
5 Post Office Square – Suite 100
Boston, MA 02109-3912

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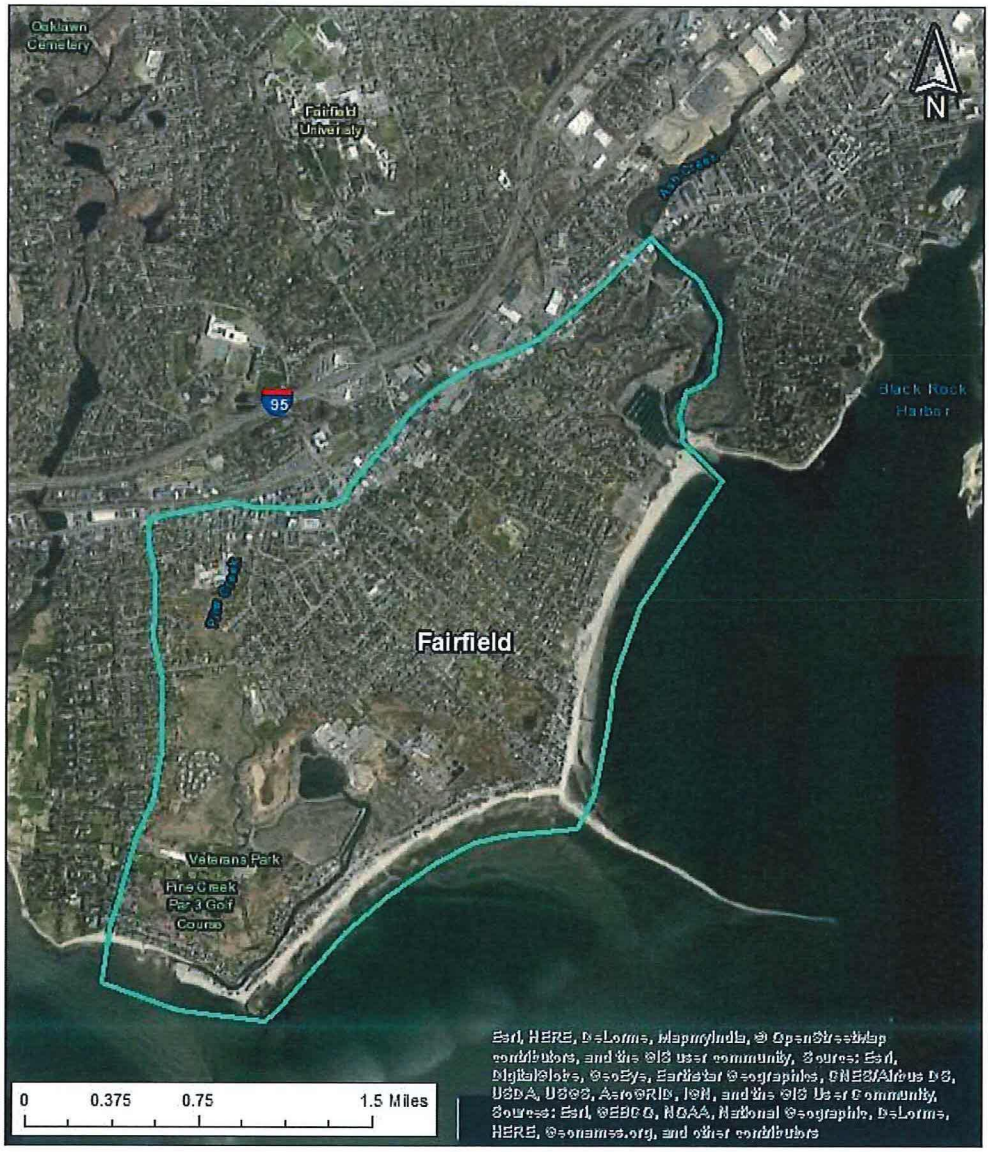

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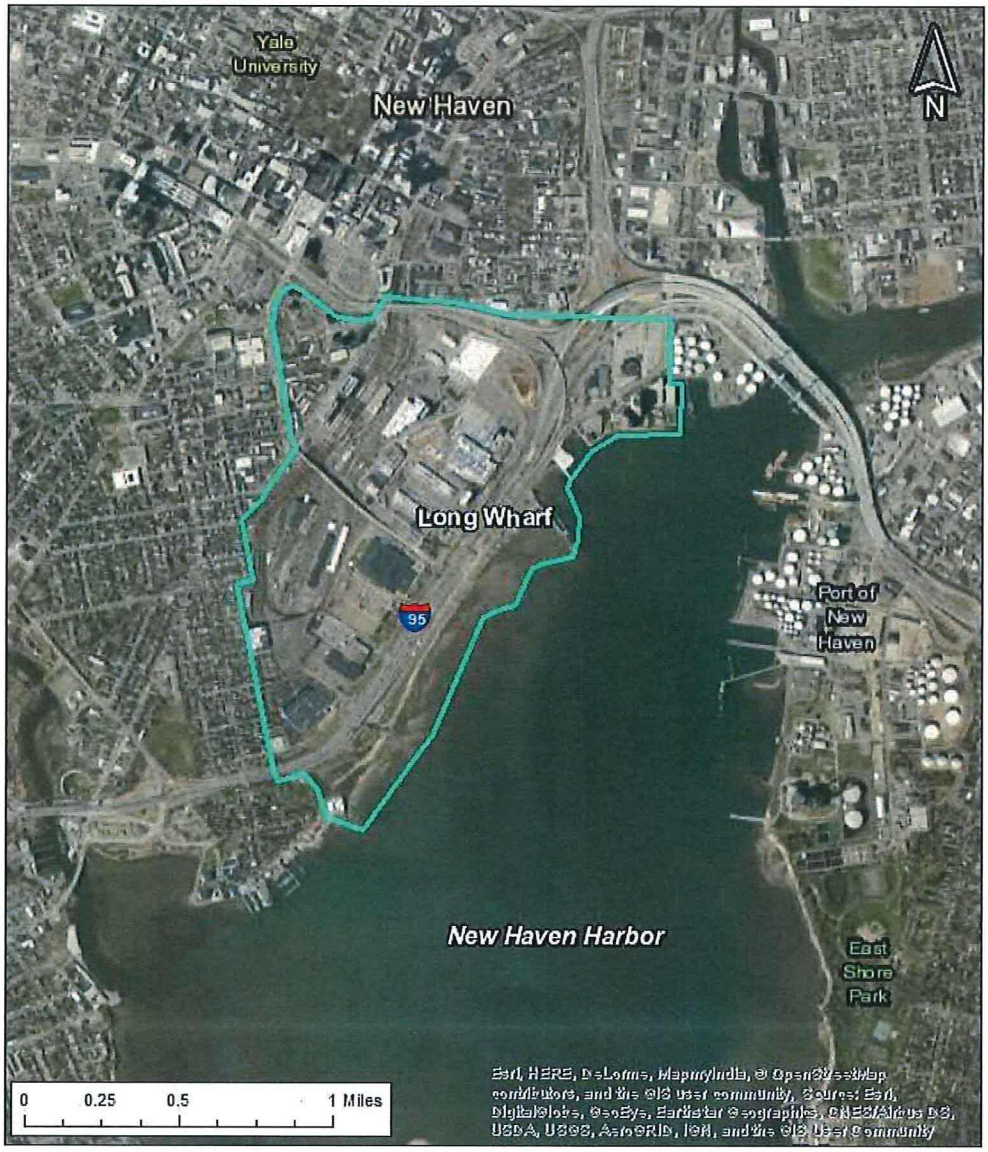

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Mr. Frogard Ryan, State Director
Connecticut Chapter,
The Nature Conservancy
55 Church Street, Floor 3
New Haven, CT 06510-3029

Dear Mr. Ryan:

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Sincerely,

John R. Kennelly
Chief, Planning Division

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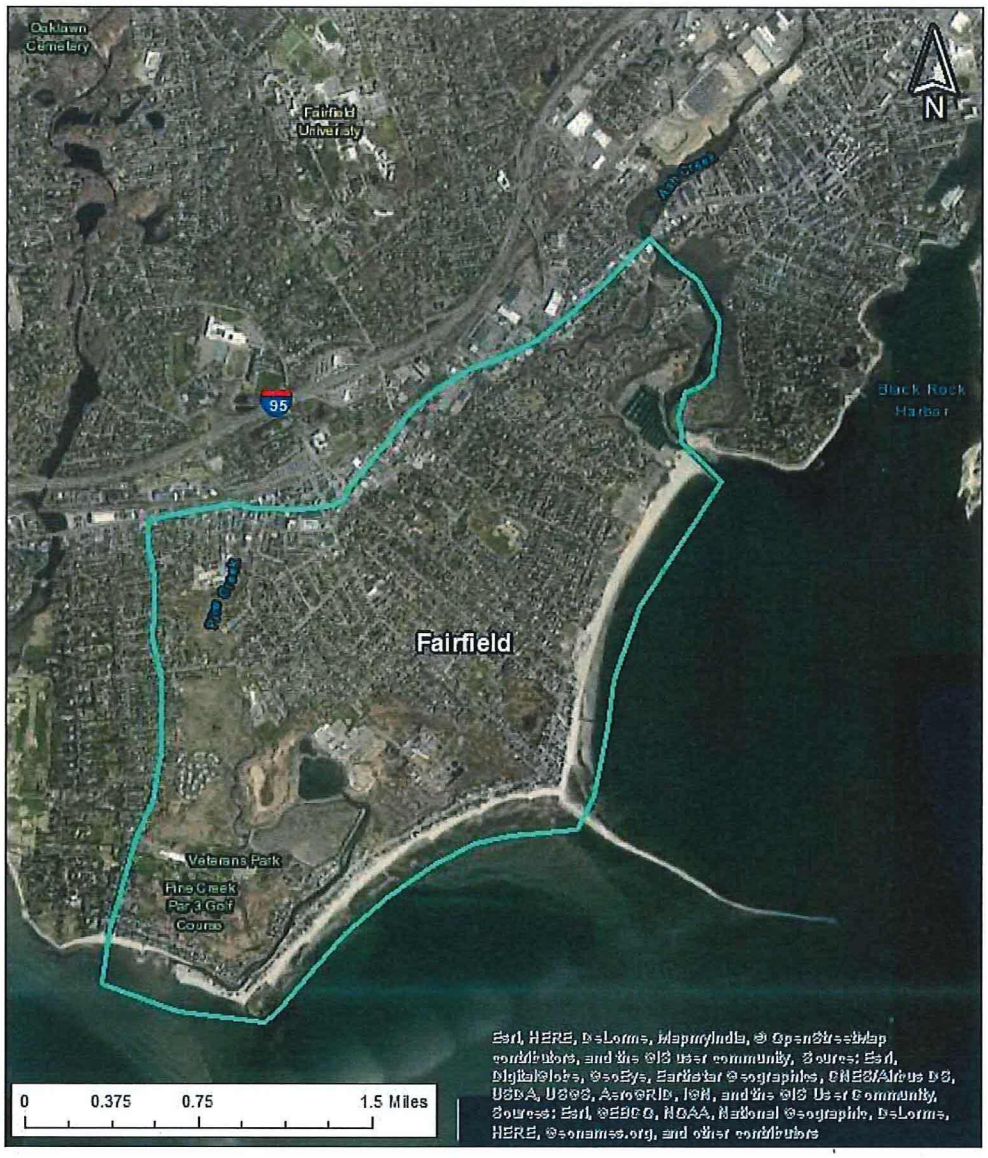

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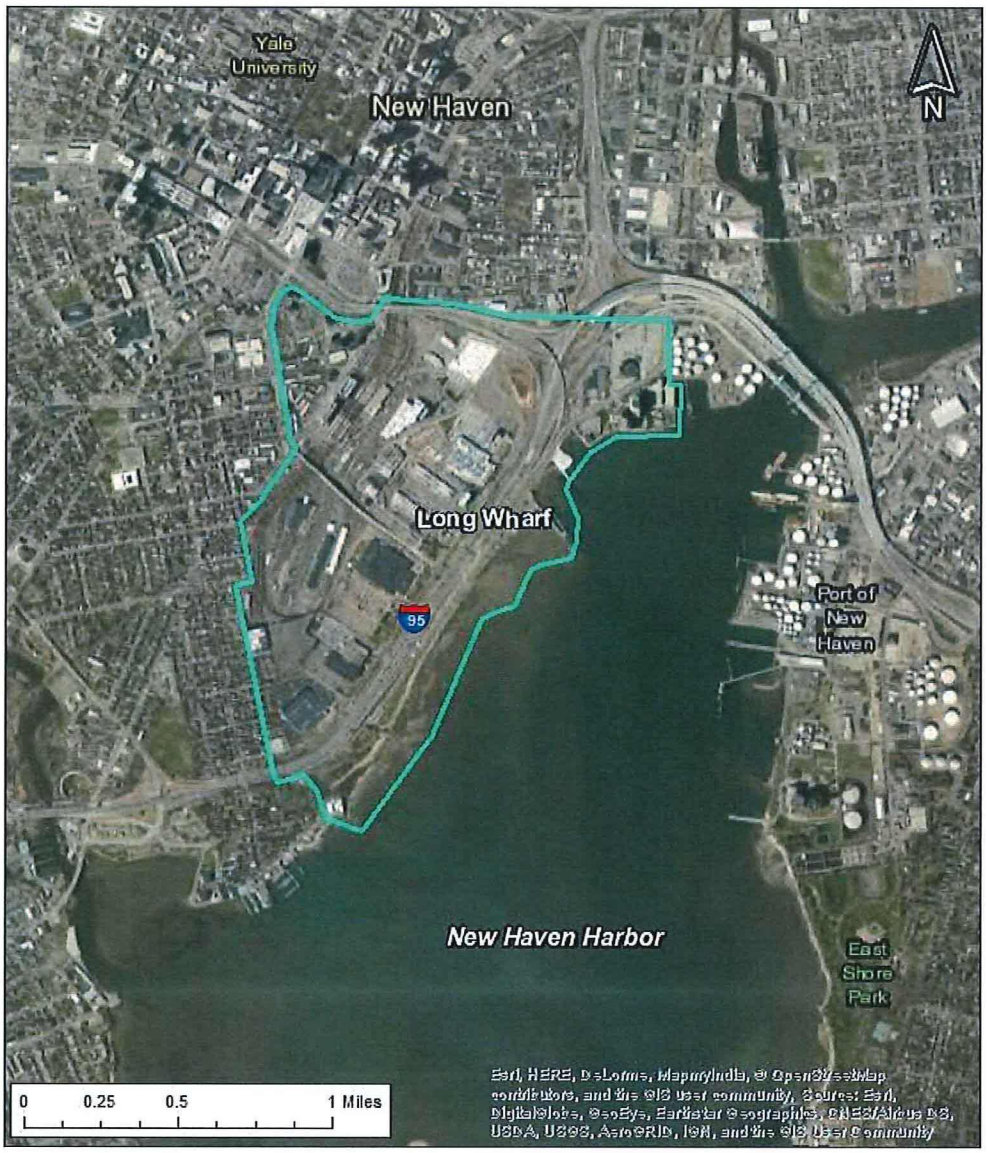

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Mr. Mike Asaro, Acting Assistant Regional Administrator
Protected Resources Division
Greater Atlantic Region Fisheries Office
National Marine Fisheries Service
55 Great Republic Drive
Gloucester, MA 01930-2276

Dear Mr. Asaro:

The U.S. Army Corps of Engineers (Corps), New England District (District) invites you and/or a member(s) of your staff to participate in a telephone conference and webinar for the New Haven and Fairfield Counties, Connecticut Coastal Storm Risk Management Feasibility Study. This study is authorized in a resolution approved by the Committee on Transportation and Infrastructure of the United States House of Representatives, dated April 29, 2010. Due to the broad scope of the study and large size of the study area, we are hosting a webinar rather than a coordinated site visit to provide information about the initial set of alternatives the District is evaluating to address coastal storm risk management in the area. The District will produce a Draft Integrated Feasibility Report and Environmental Assessment which is scheduled to be released in late June 2019 for public and agency review.

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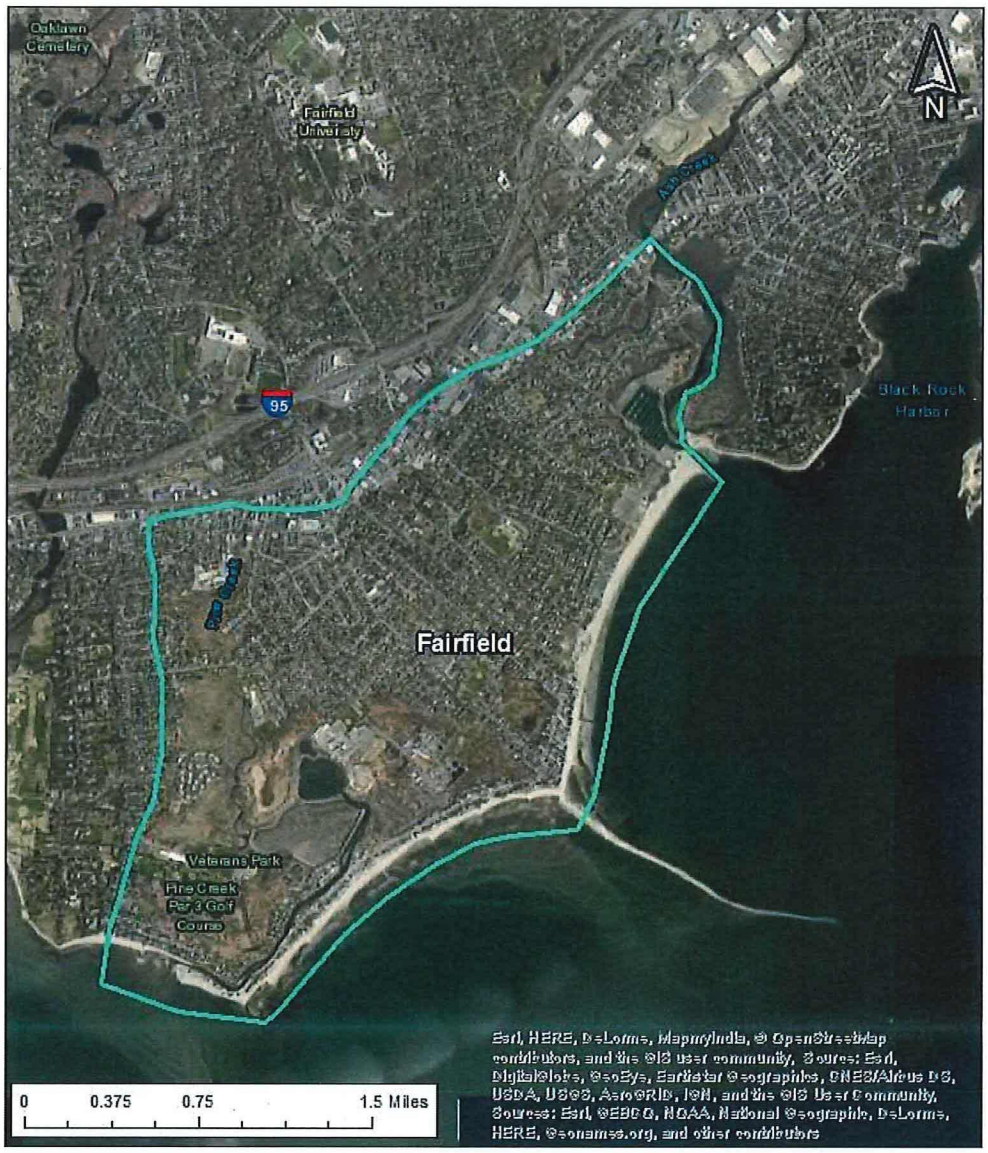

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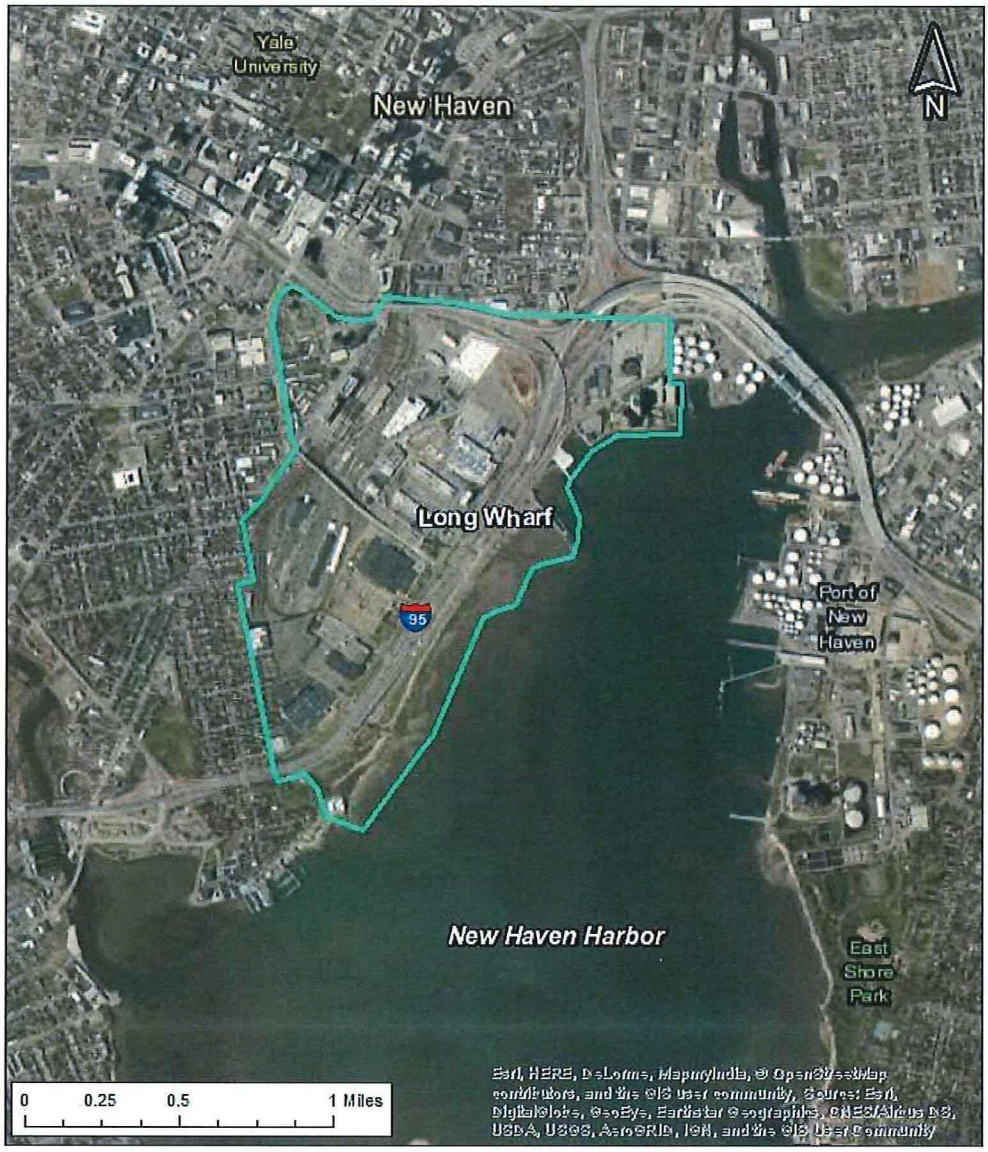

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Mr. Lou Chiarella, Assistant Regional Administrator
Habitat Conservation Division
Greater Atlantic Region Fisheries Office
National Marine Fisheries Service
55 Great Republic Drive
Gloucester, MA 01930-2276

Dear Mr. Chiarella:

The U.S. Army Corps of Engineers (Corps), New England District (District) invites you and/or a member(s) of your staff to participate in a telephone conference and webinar for the New Haven and Fairfield Counties, Connecticut Coastal Storm Risk Management Feasibility Study. This study is authorized in a resolution approved by the Committee on Transportation and Infrastructure of the United States House of Representatives, dated April 29, 2010. Due to the broad scope of the study and large size of the study area, we are hosting a webinar rather than a coordinated site visit to provide information about the initial set of alternatives the District is evaluating to address coastal storm risk management in the area. The District will produce a Draft Integrated Feasibility Report and Environmental Assessment which is scheduled to be released in late June 2019 for public and agency review.

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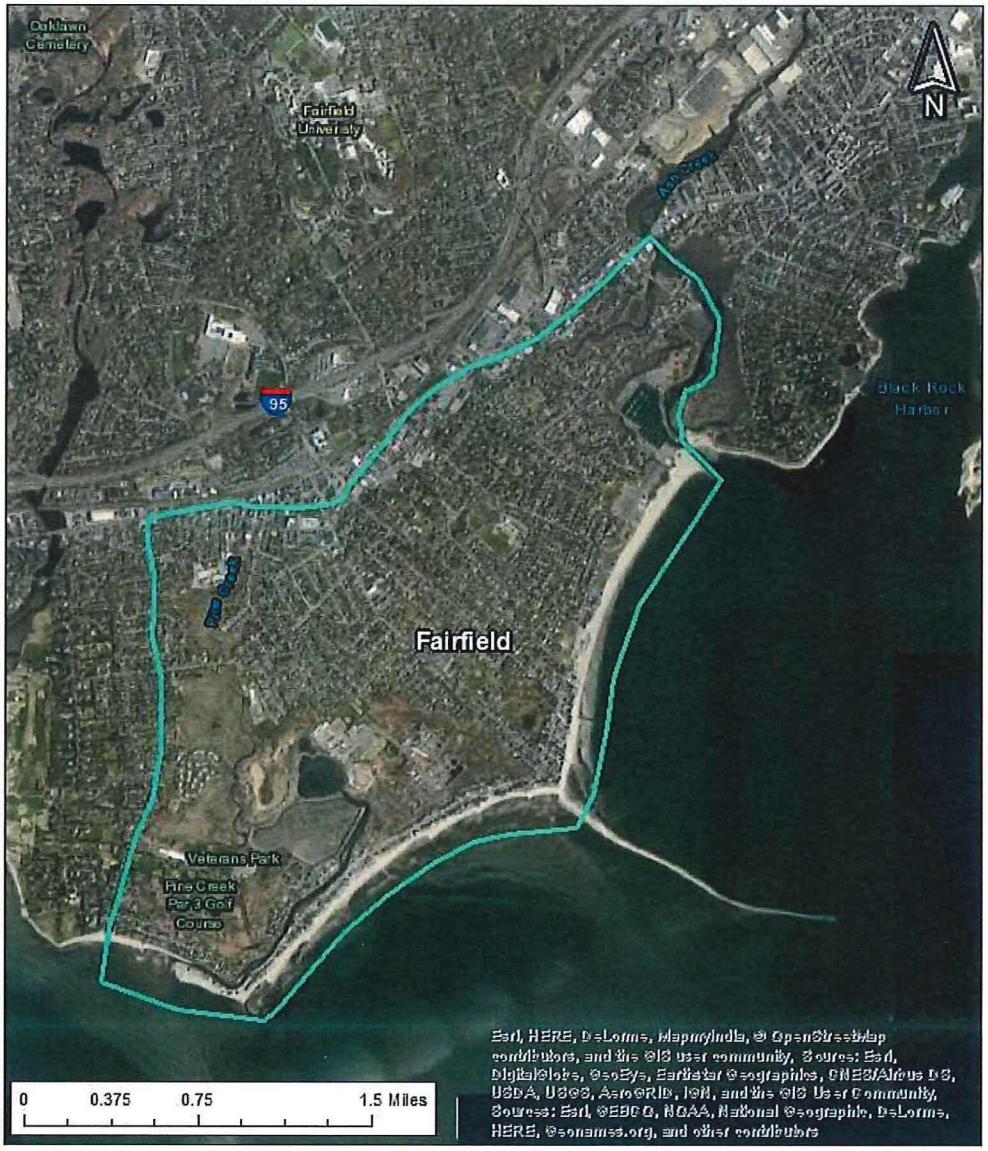

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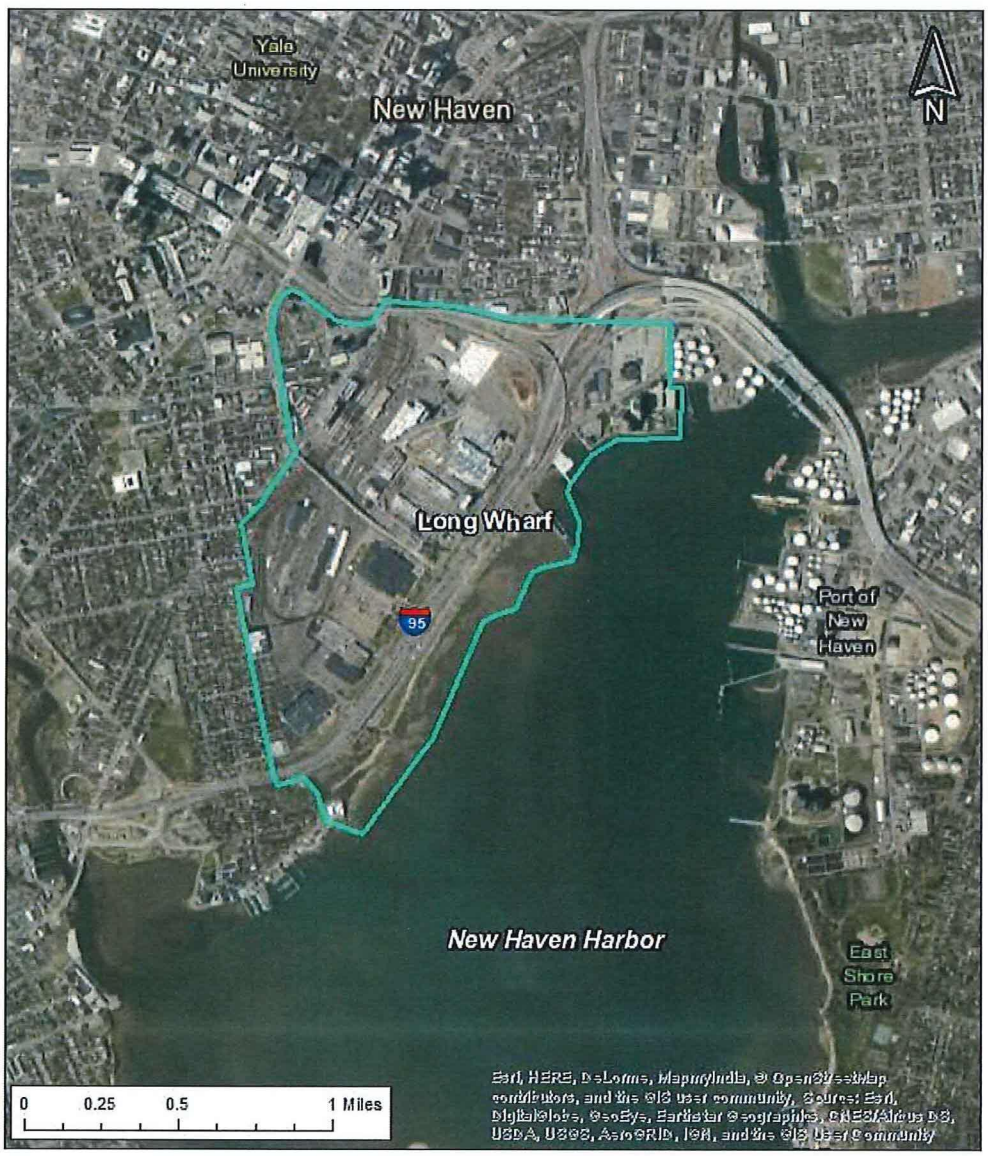

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Mr. Michael Pentony, Regional Administrator
Greater Atlantic Region Fisheries Office
National Marine Fisheries Service
55 Great Republic Drive
Gloucester, MA 01930-2276

Dear Mr. Pentony:

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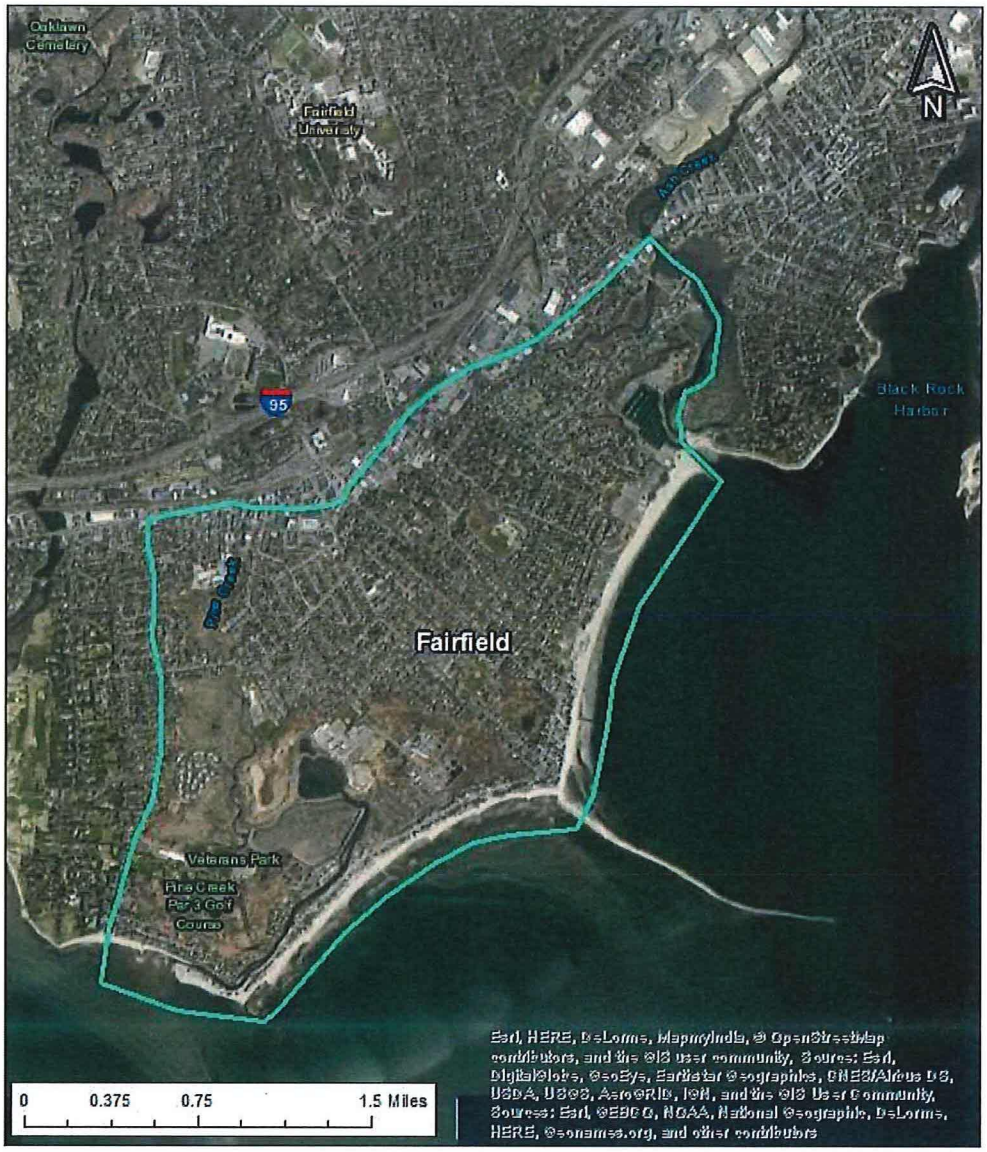

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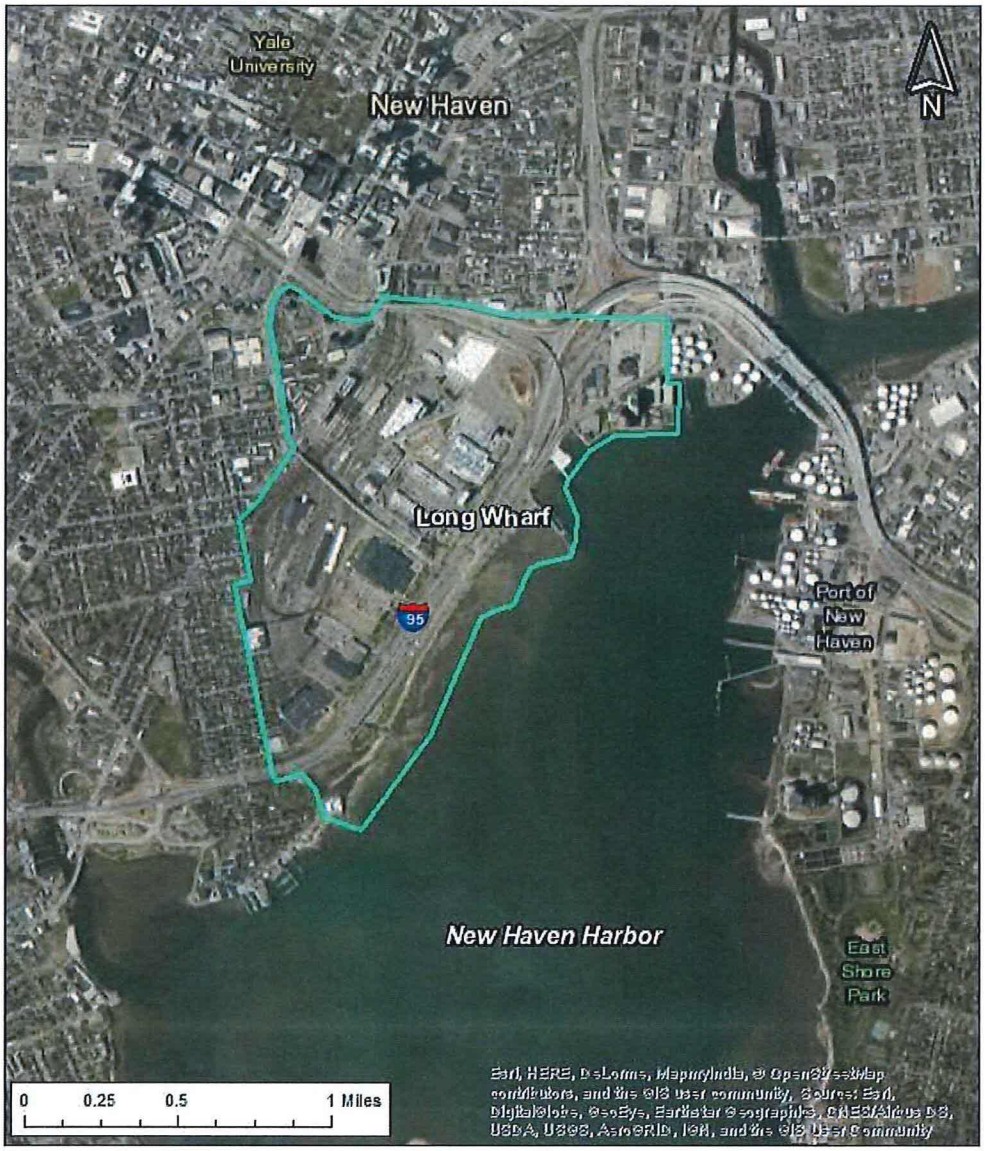

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Mr. Daniel Forrest, State Historic Preservation Officer
Department of Economic and Community,
State Historic Preservation Office
One Constitution Plaza, 2' Floor
Hartford, Connecticut 06103

Dear Mr. Forrest:

The U.S. Army Corps of Engineers (Corps), New England District (District) invites you and/or a member(s) of your staff to participate in a telephone conference and webinar for the New Haven and Fairfield Counties, Connecticut Coastal Storm Risk Management Feasibility Study. This study is authorized in a resolution approved by the Committee on Transportation and Infrastructure of the United States House of Representatives, dated April 29, 2010. Due to the broad scope of the study and large size of the study area, we are hosting a webinar rather than a coordinated site visit to provide information about the initial set of alternatives the District is evaluating to address coastal storm risk management in the area. The District will produce a Draft Integrated Feasibility Report and Environmental Assessment which is scheduled to be released in late June 2019 for public and agency review.

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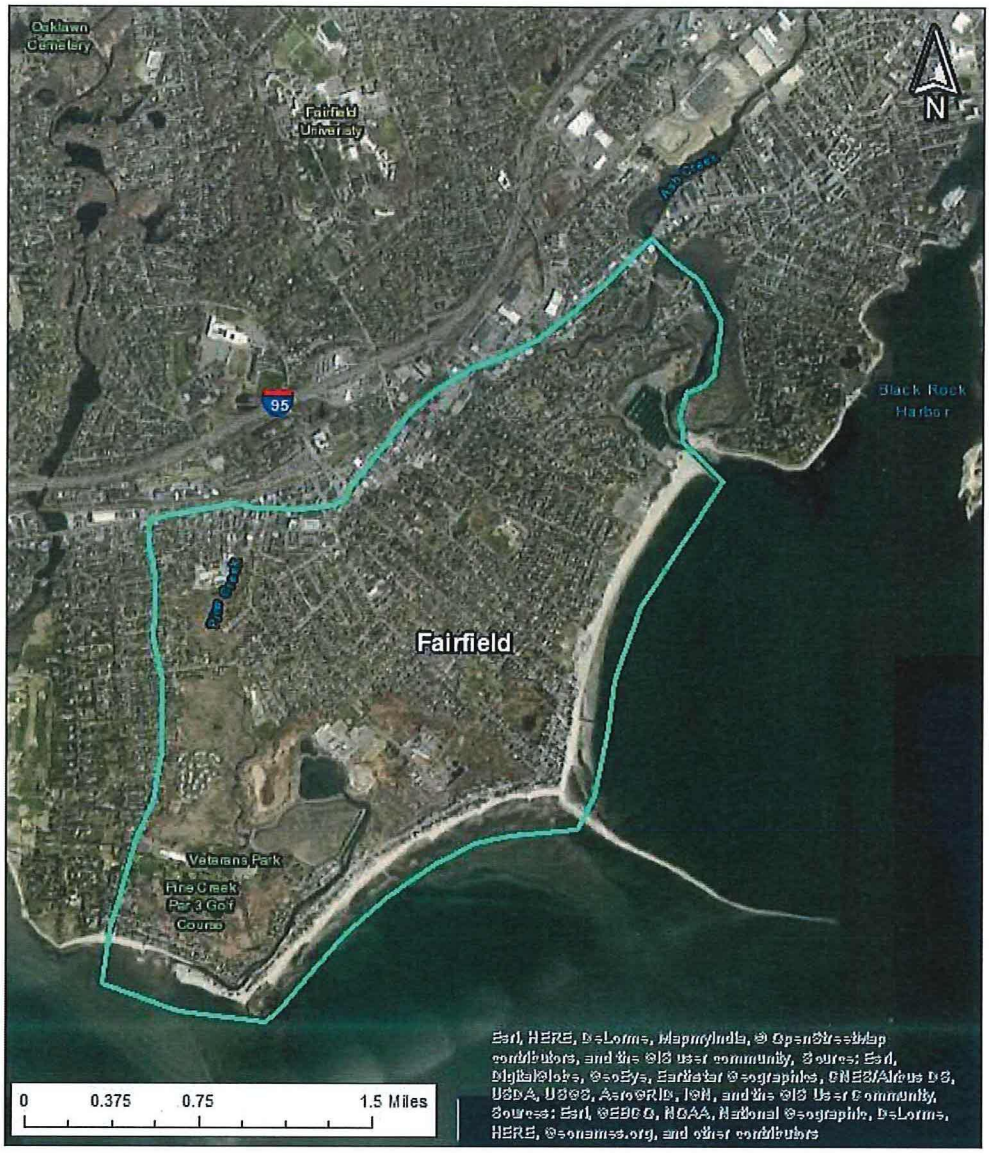

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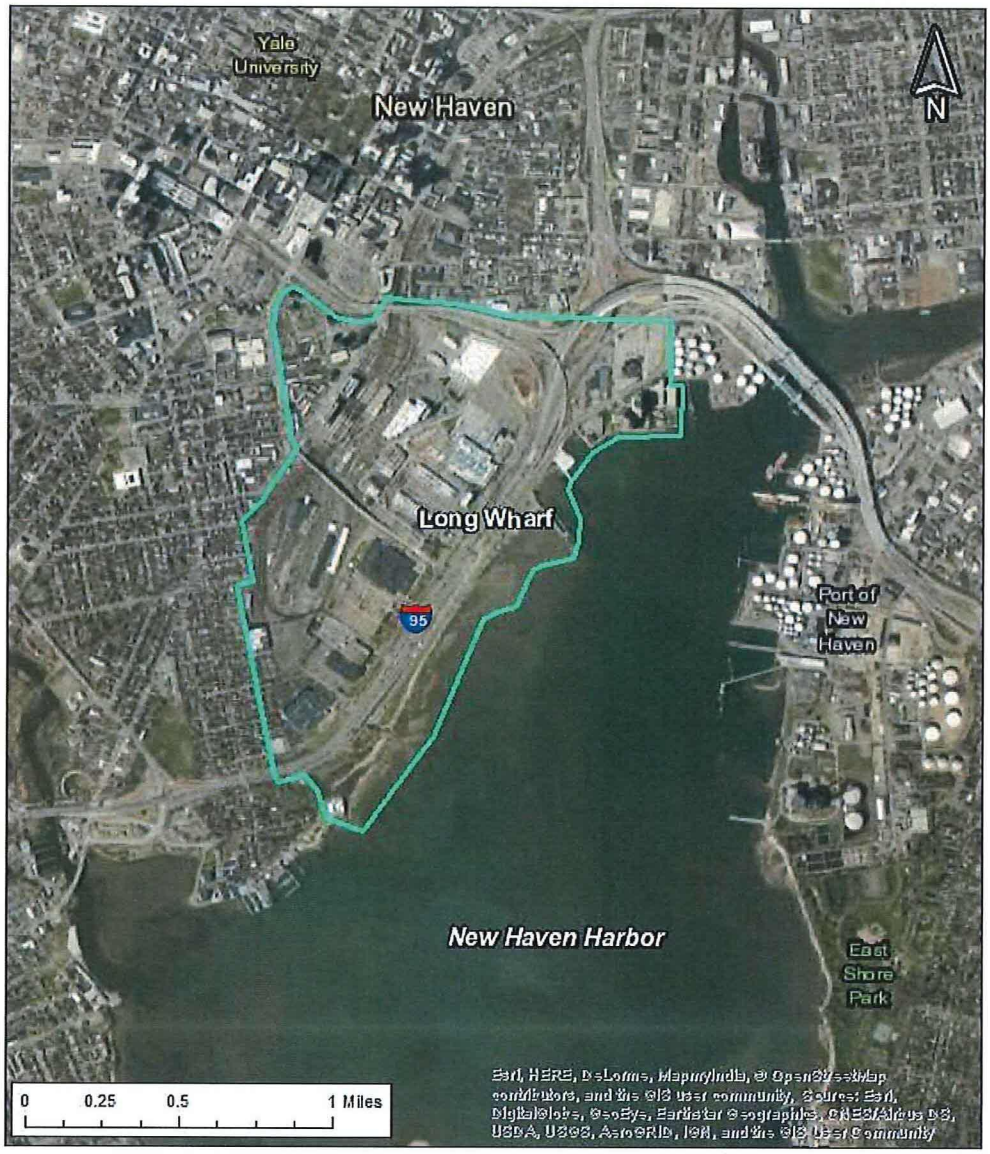

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Mr. James Quinn, Tribal Historical Preservation Officer
Mohegan Tribe Cultural Department
5 Crow Hill Road
Uncasville, CT 06382

Dear Mr. Quinn:

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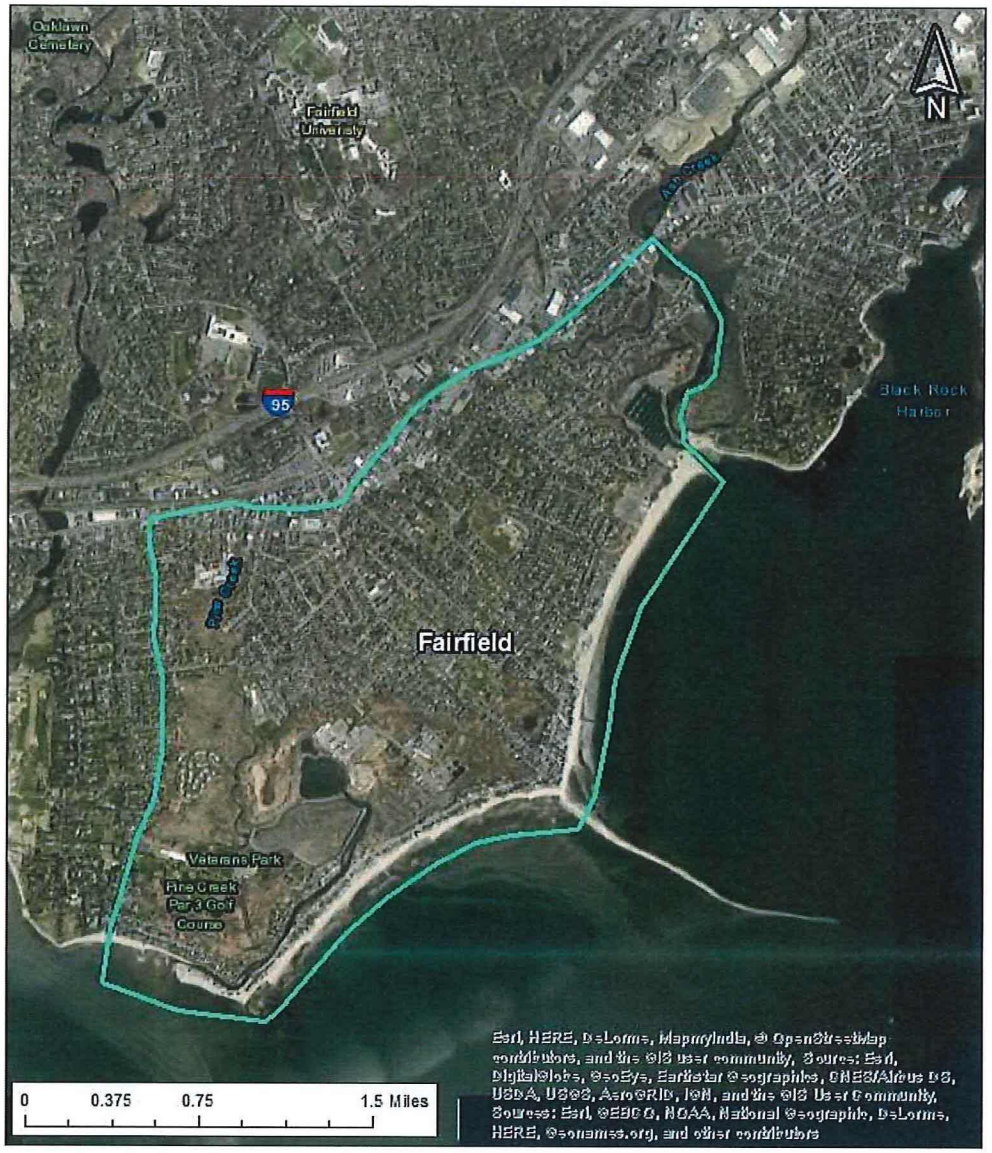

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DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Ms. Marissa Turnbull, Tribal Historical Preservation Officer
Natural Resources Protection & Regulatory Affairs
Mashantucket (Western) Pequot Tribal Nation
350 Trolley Line Blvd., P.O. Box 3202
Mashantucket, CT 06338-3202

Dear Ms. Turnbull:

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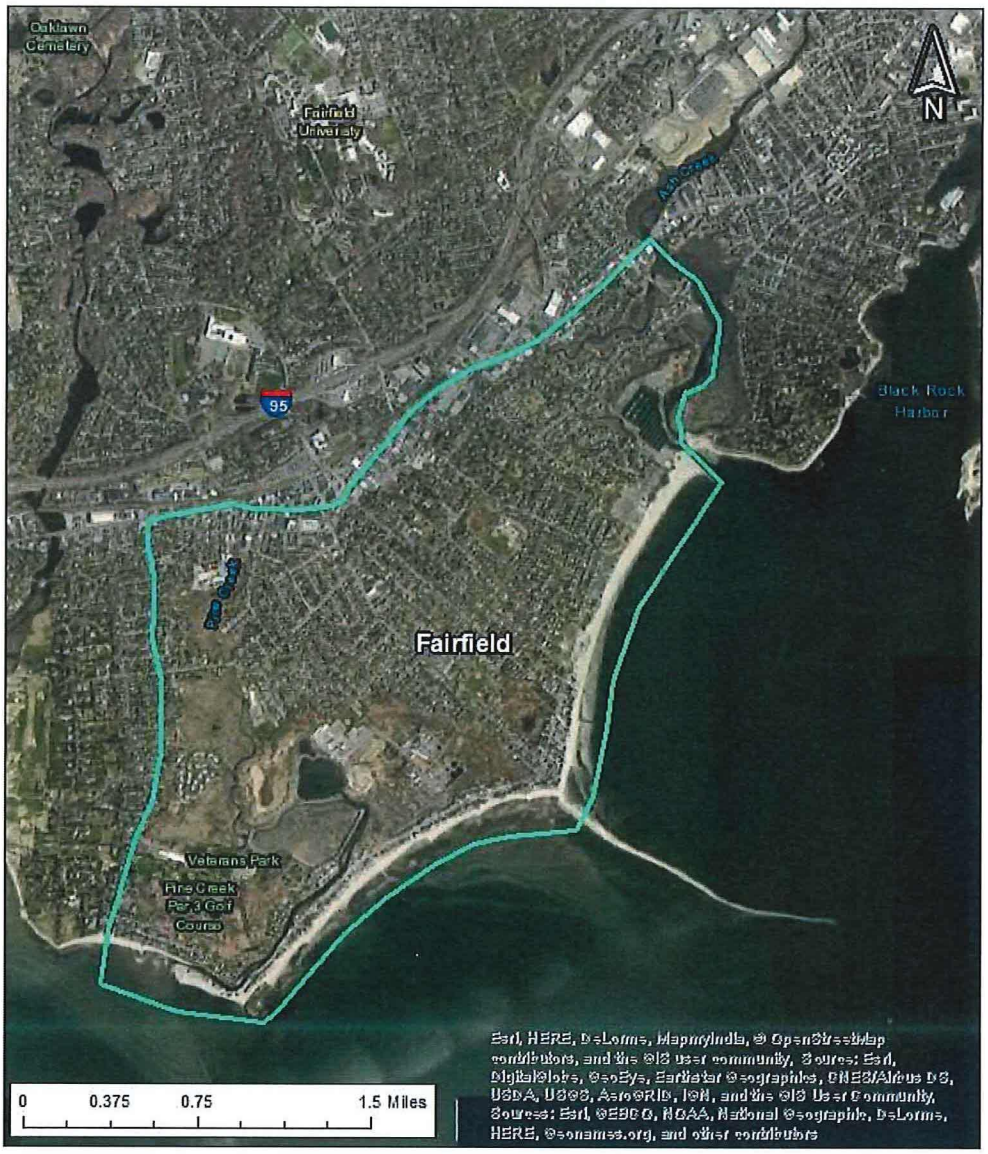

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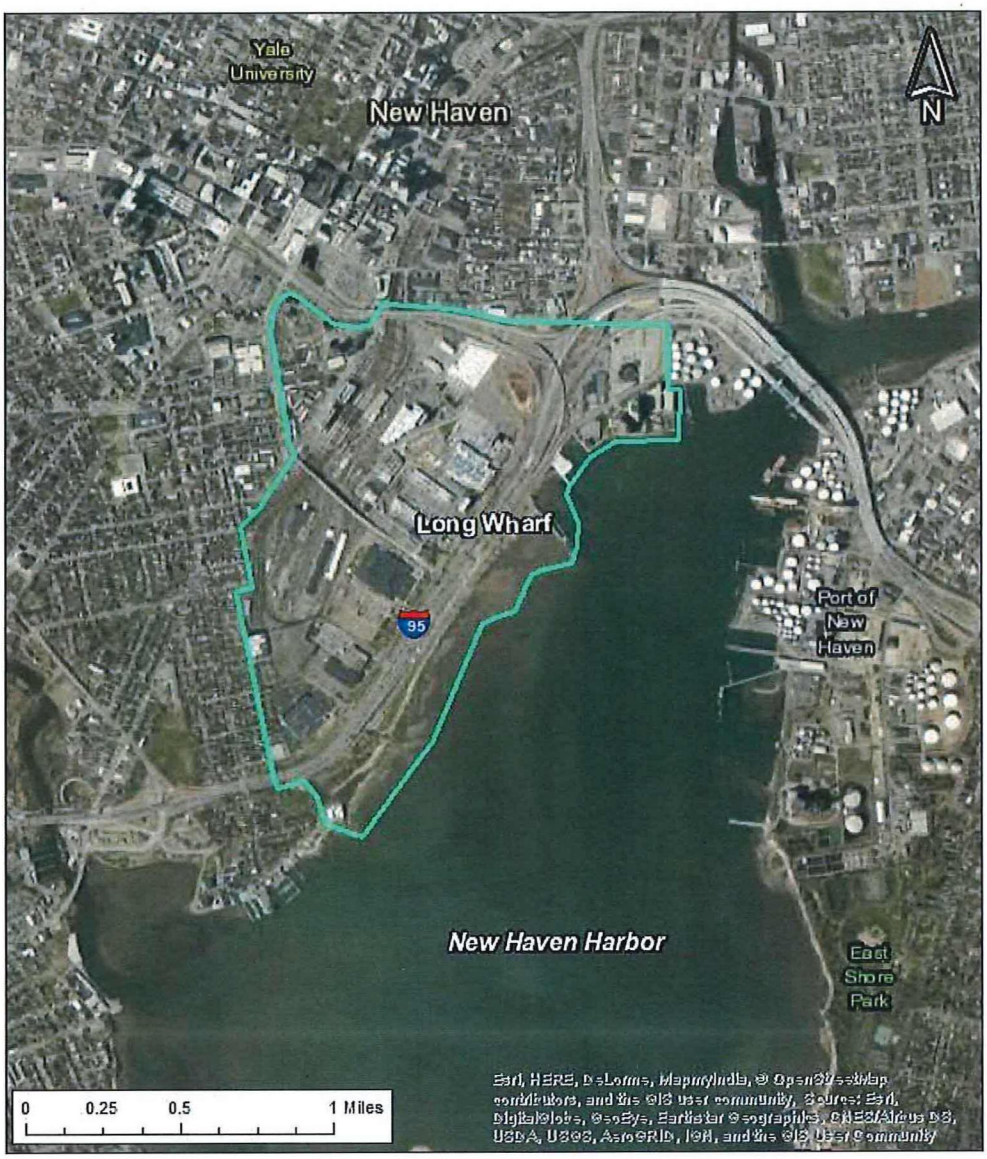

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Dr. Brian Jones, State Archaeologist
Office of Connecticut State Archaeology, Unit 4214
University of Connecticut
Storrs, CT 06269-4214

Dear Dr. Jones:

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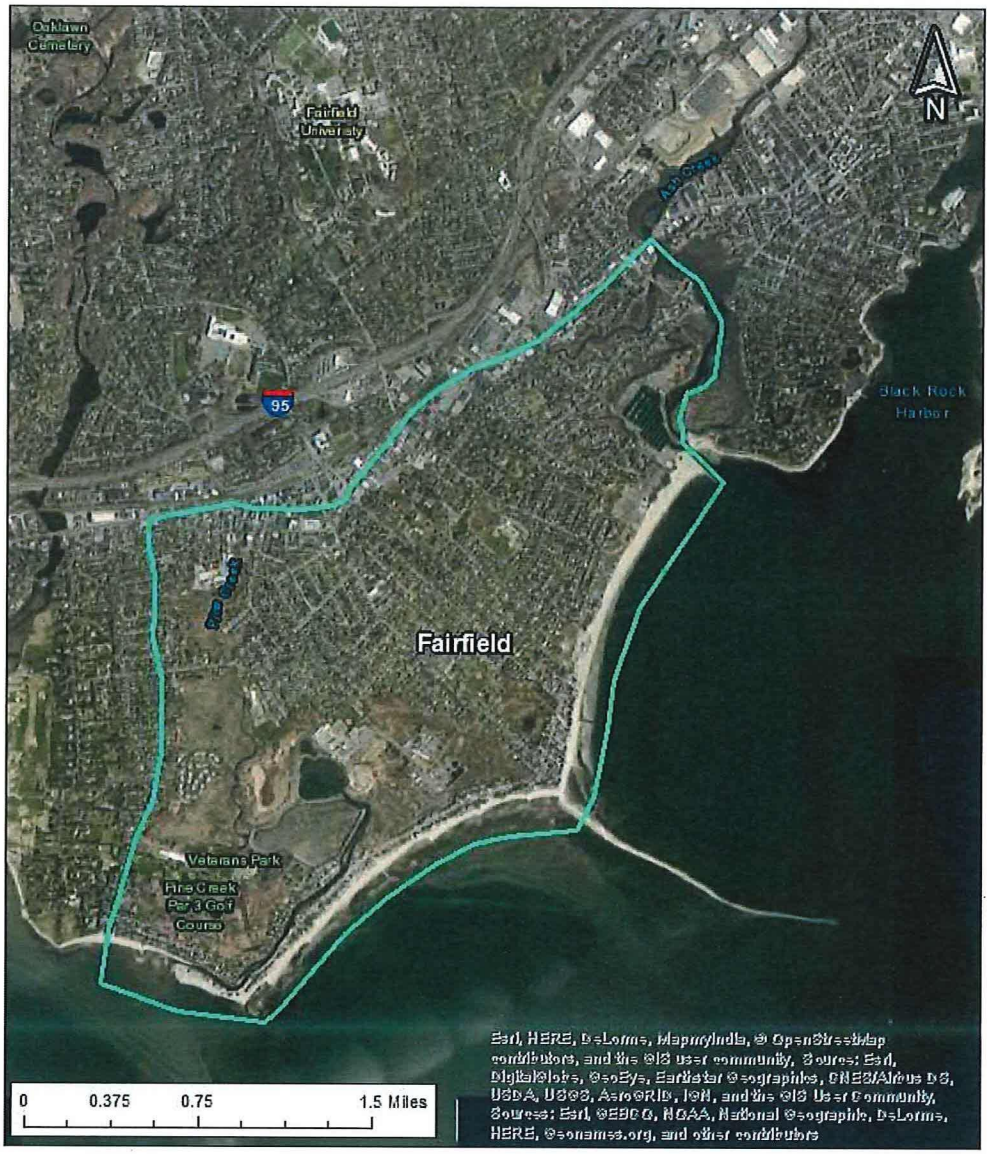

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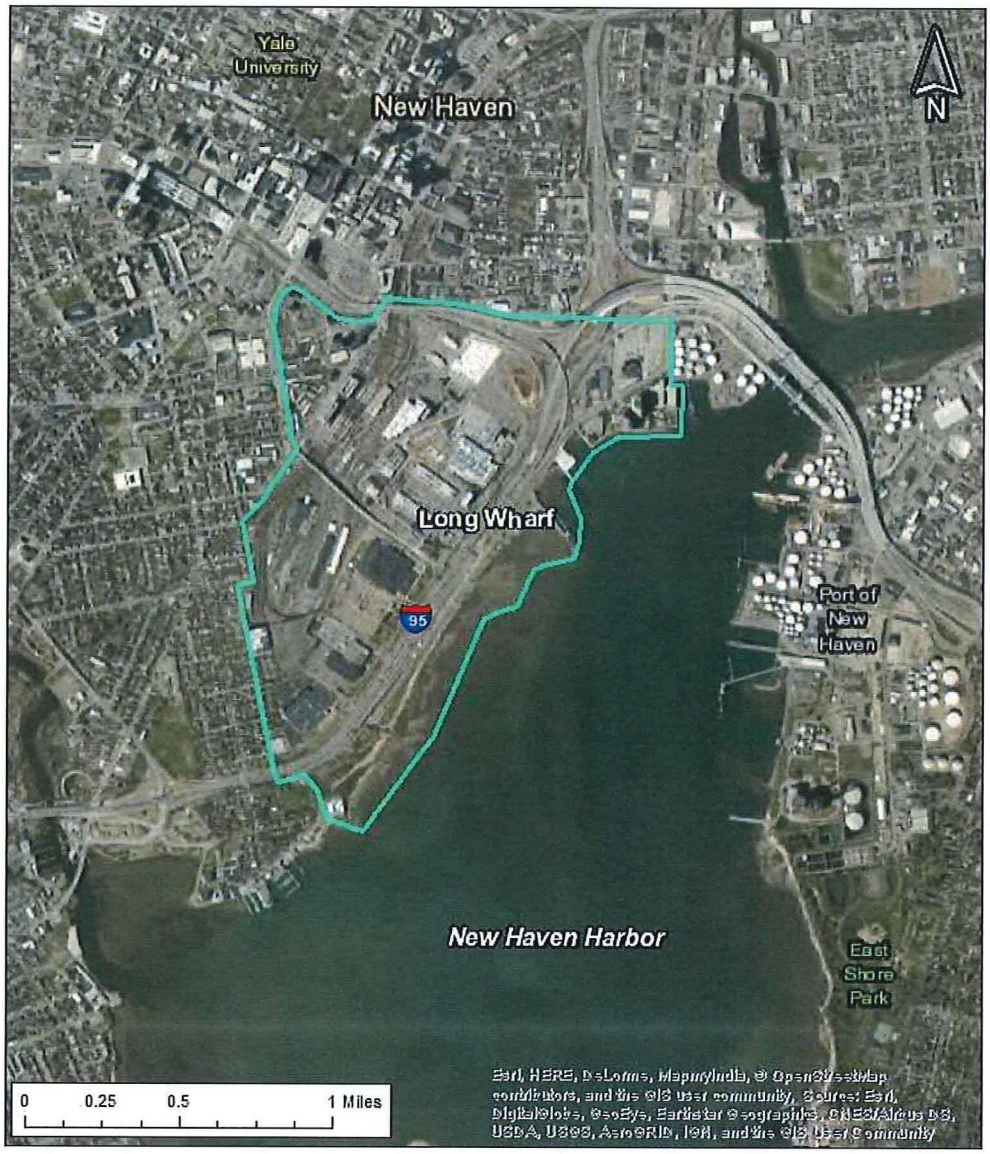

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Mr. Tom Chapman, Supervisor
U.S. Fish and Wildlife Service
New England Field Office
70 Commercial Street, Suite 300
Concord, MA 03301-5087

Dear Mr. Chapman:

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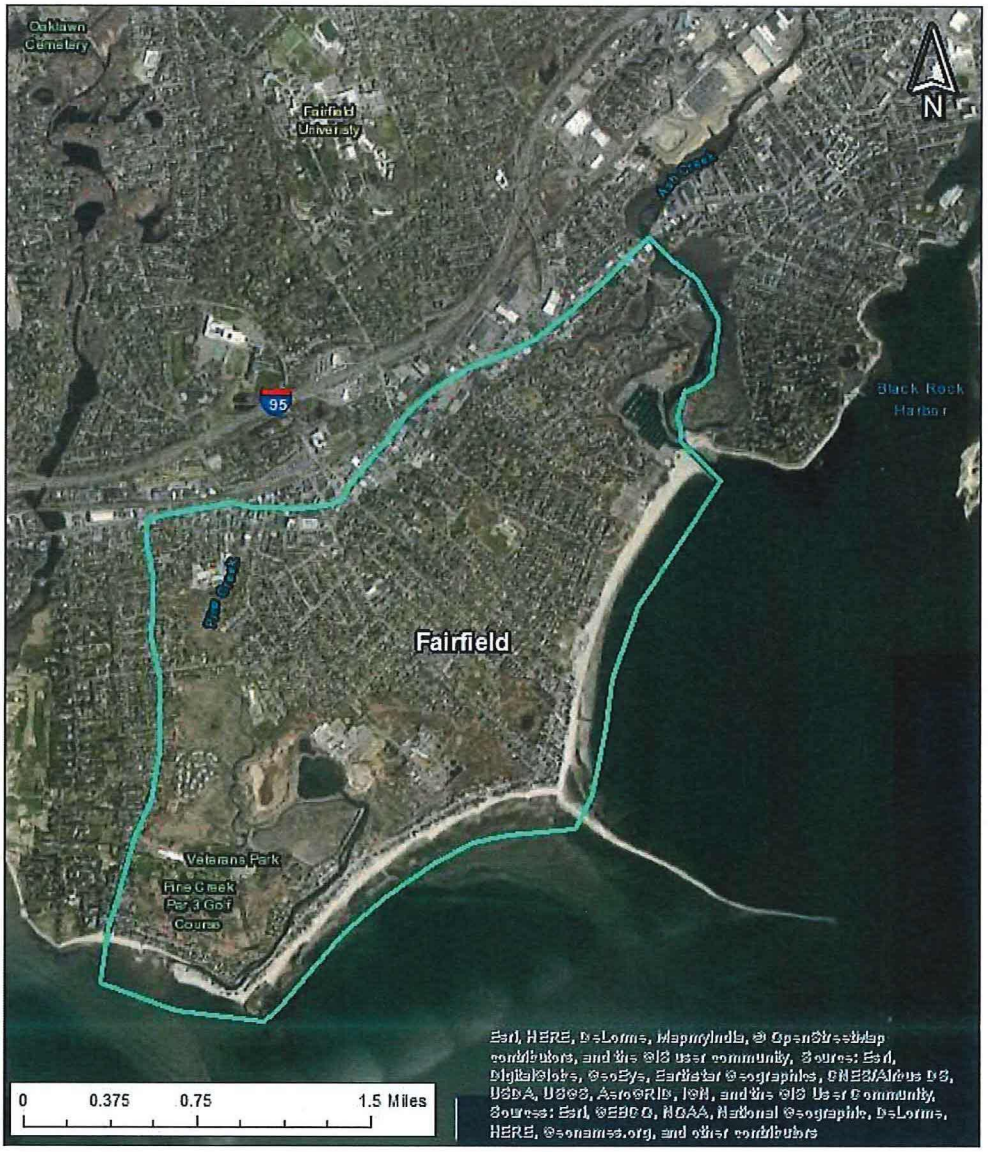

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DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Mr. David Simmons, Assistant Supervisor
Endangered Species
U.S. Fish and Wildlife Service
New England Field Office
70 Commercial Street, Suite 300
Concord, MA 03301-5087

Dear Mr. Simmons:

The U.S. Army Corps of Engineers (Corps), New England District (District) invites you and/or a member(s) of your staff to participate in a telephone conference and webinar for the New Haven and Fairfield Counties, Connecticut Coastal Storm Risk Management Feasibility Study. This study is authorized in a resolution approved by the Committee on Transportation and Infrastructure of the United States House of Representatives, dated April 29, 2010. Due to the broad scope of the study and large size of the study area, we are hosting a webinar rather than a coordinated site visit to provide information about the initial set of alternatives the District is evaluating to address coastal storm risk management in the area. The District will produce a Draft Integrated Feasibility Report and Environmental Assessment which is scheduled to be released in late June 2019 for public and agency review.

The study was initiated in 2016 when the District conducted an analysis for the Fairfield and New Haven County area utilizing the North Atlantic Coastal Comprehensive Study. This analysis concluded that there is a Federal interest in continuing with a feasibility study to examine coastal storm damage reduction in the two counties. The study area includes approximately 1,700 square miles of land within the state of Connecticut, ranging from agricultural/rural towns, moderately developed suburbs, to densely populated cities, and stretching from inland riverine watersheds to coastal communities.

The District refined the scope of the study area to focus on those areas where the greatest opportunity exists for the Corps to improve conditions and/or reduce coastal storm and flood damages. The proposed areas for detailed examination are approximately 4.75 square miles along the southern coast of the Town of Fairfield (Attachment 1) and approximately 1.5 square miles along the Long Wharf section of the

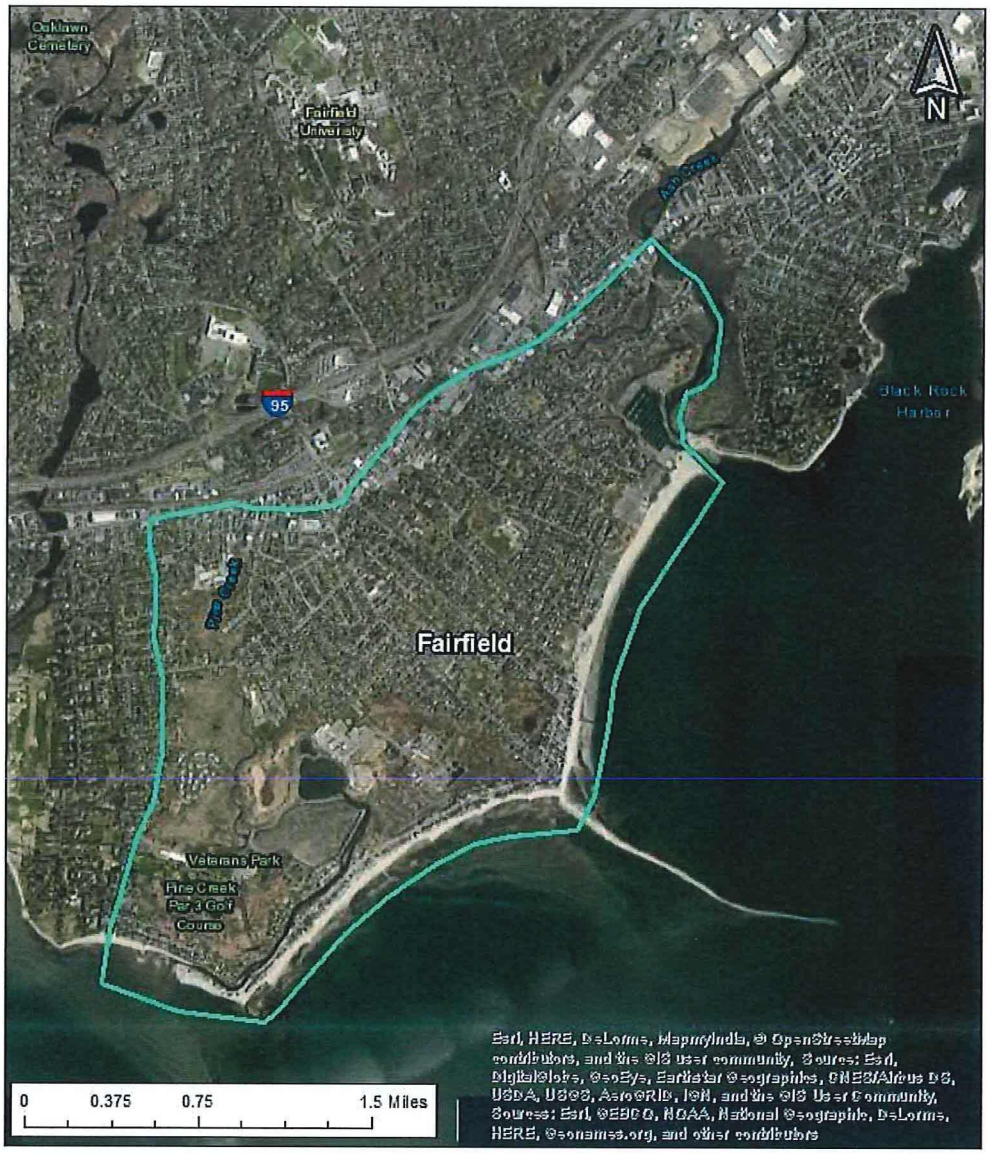
City of New Haven (Attachment 2). The general water resource problem to be addressed is the vulnerability of these areas to storm damage from wave attack, storm surge and erosion. Potential solutions being evaluated include structural and non-structural solutions.

We would appreciate your participation in the webinar on March 28, 2019 from 10am to noon in order to gain your initial input on the proposed alternatives. We request written comments be provided within 30 days of the webinar to Ms. Grace Moses of the Environmental Resources Section at C.Grace.Moses@usace.army.mil. Should you have any questions in the interim, please contact Ms. Grace Moses at (978) 318-8717, or Byron Rupp, Study Manager at 978-318-8172, or by e-mail at Byron.R.Rupp@usace.army.mil.

Sincerely,

John R. Kennelly
Chief, Planning Division

Attachment 1. Study Area in Fairfield, Connecticut



Attachment 2. Study Area in New Haven, Connecticut

DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 20, 2019

Planning Division

Mr. John Warner, Assistant Supervisor
Federal Activities
U.S. Fish and Wildlife Service
New England Field Office
70 Commercial Street, Suite 300
Concord, MA 03301-5087

Dear Mr. Warner:

The U.S. Army Corps of Engineers (Corps), New England District (District) invites you and/or a member(s) of your staff to participate in a telephone conference and webinar for the New Haven and Fairfield Counties, Connecticut Coastal Storm Risk Management Feasibility Study. This study is authorized in a resolution approved by the Committee on Transportation and Infrastructure of the United States House of Representatives, dated April 29, 2010. Due to the broad scope of the study and large size of the study area, we are hosting a webinar rather than a coordinated site visit to provide information about the initial set of alternatives the District is evaluating to address coastal storm risk management in the area. The District will produce a Draft Integrated Feasibility Report and Environmental Assessment which is scheduled to be released in late June 2019 for public and agency review.

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Sincerely,

John R. Kennelly
Chief, Planning Division

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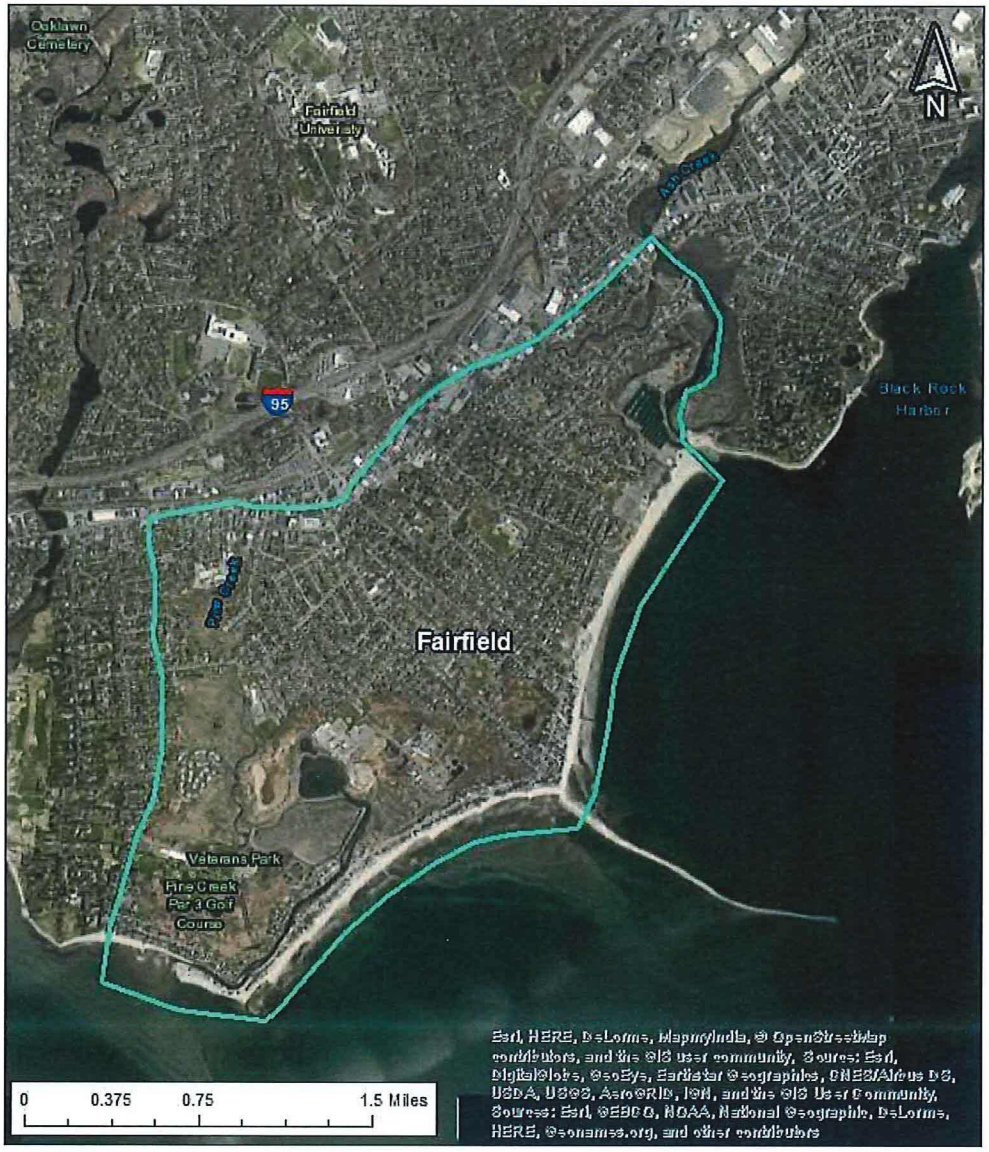
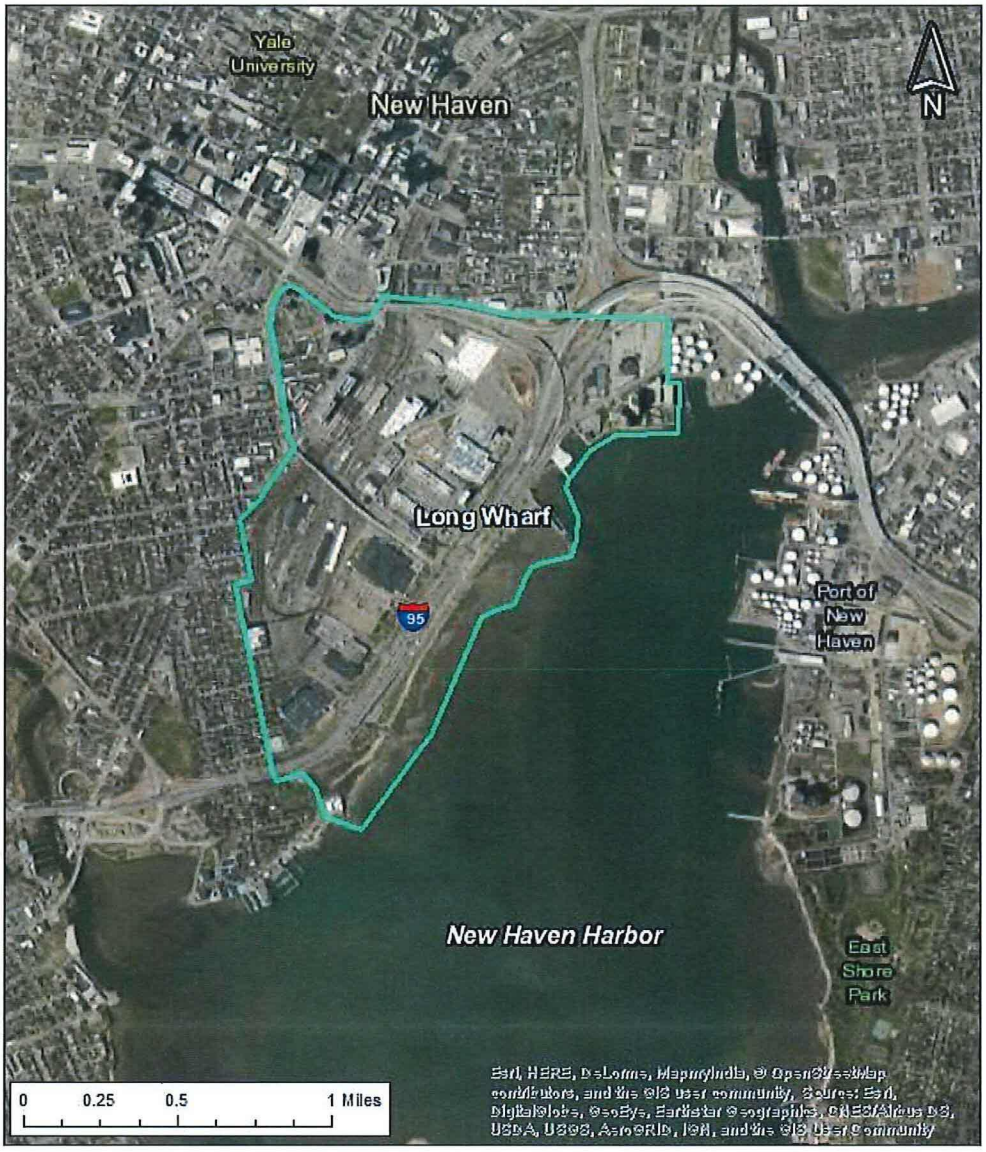


Attachment 2. Study Area in New Haven, Connecticut



Fairfield and New Haven Counties, Connecticut

Coastal Storm Risk Management

Feasibility Study

Resource Agency Meeting Letter Responses

From:	David Simmons
To:	Moses, Catherine G CIV USARMY CENAE (US)
Cc:	Cynthia Corsair
Subject:	[Non-DoD Source] New Haven and Fairfield Counties Storm Risk Study
Date:	Wednesday, March 27, 2019 3:54:33 PM

Hi Grace,

We received John Kennelly's letter, dated March 20, 2019, requesting we participate in a webinar on the subject study on March 28, 2019, and provide comments. I appreciate the invitation to participate, but we will be unable to attend the webinar. In addition, due to other workload demands, at this time we can provide only general comments to say that our recommendations for those parts of coastal New England would center around avoiding or minimizing impacts to listed shorebird species and maintaining or enhancing saltmarsh habitat, if present. Beyond that, we will be available if the Corps determines the final proposed project may affect a species listed under the ESA, at which point some level of consultation under section 7 would be needed. Please let me know if you have any questions, concerns, etc. Regards,

David

David Simmons

Endangered Species Program Supervisor

New England Fish and Wildlife Office

U.S. Fish and Wildlife Service

70 Commercial Street, Suite 300

Concord, New Hampshire 03301

603.227.6425

Fairfield and New Haven Counties, Connecticut

Coastal Storm Risk Management

Feasibility Study

Additional Correspondence

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104
http://www.fws.gov/newengland

In Reply Refer To:
Consultation Code: 05E1NE00-2019-SLI-0748
Event Code: 05E1NE00-2019-E-04980
Project Name: New Haven CSRM

June 18, 2019

Subject: Updated list of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
(603) 223-2541

Project Summary

Consultation Code: 05E1NE00-2019-SLI-0748

Event Code: 05E1NE00-2019-E-04980

Project Name: New Haven CSRM

Project Type: STREAM / WATERBODY / CANALS / LEVEES / DIKES

Project Description: USACE coastal storm damage reduction project located along Long Wharf in New Haven, CT.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/41.292762632007765N72.92164817809257W

Counties: New Haven, CT

Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Birds

NAME	STATUS
Red Knot *Calidris canutus rufa* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1864	Threatened
Roseate Tern *Sterna dougallii dougallii* Population: Northeast U.S. nesting population No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2083	Endangered

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

Connecticut Department of
Energy & Environmental Protection
Bureau of Natural Resources
Wildlife Division

CPPU USE ONLY

App #:_____

Doc #:_____

Check #: No fee required

Program: **Natural Diversity Database**
Endangered Species

Hardcopy _____ **Electronic** _____

Request for Natural Diversity Data Base (NDDB) State Listed Species Review

Please complete this form in accordance with the instructions (DEEP-INST-007) to ensure proper handling of your request.
There are no fees associated with NDDB Reviews.

Part I: Preliminary Screening & Request Type

Before submitting this request, you must review the most current Natural Diversity Data Base "State and Federal Listed Species and Significant Natural Communities Maps" found on the DEEP website. These maps are updated twice a year, usually in June and December.

Does your site, including all affected areas, fall in an NDDB Area according to the map instructions:

☒ Yes ☐ No **Enter the date** of the map reviewed for pre-screening: **December 2018**

This form is being submitted for a :

☒ *New* NDDB request ☐ *Renewal/Extension* of a NDDB Request, ***without*** *modifications and within* ***two years*** *of issued NDDB determination* (no attachments required) [*CPPU Use Only - NDDB-Listed Species Determination #* 1736]	☐ *New* **Safe Harbor Determination** (optional) must be associated with an application for a GP for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities ☐ *Renewal/Extension* of an existing Safe Harbor Determination ☐ With modifications ☐ Without modifications (no attachments required) [*CPPU Use Only - NDDB-Safe Harbor Determination #* 1736]
Enter NDDB Determination Number for Renewal/Extension:	Enter Safe Harbor Determination Number for Renewal/Extension:

Part II: Requester Information

If the requester is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of State. If applicable, the name shall be stated **exactly as it is registered with the Secretary of State. Please note, for those entities registered with the Secretary of State, the registered name will be the name used by DEEP. This information can be accessed at the Secretary of the State's database CONCORD.* (www.concord-sots.ct.gov/CONCORD/index.jsp)

If the requester is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).

If there are any changes or corrections to your company/facility or individual mailing or billing address or contact information, please complete and submit the Request to Change company/Individual Information to the address indicated on the form.

1. Requester*

Company Name: **U.S. Army Corps of Engineers**

Contact Name: **Grace Moses**

Address: **696 Virginia Rd.**

City/Town: **Concord** State: **MA** Zip Code: **02155**

Business Phone: **978-318-8717** ext.

E-mail: **c.grace.moses@usace.army.mil

**By providing this email address you are agreeing to receive official correspondence from the department, at this electronic address, concerning this request. Please remember to check your security settings to be sure you can receive emails from "ct.gov" addresses. Also, please notify the department if your e-mail address changes

a) Requester can best be described as:

☐ Individual ☒ Federal Agency ☐ State agency ☐ Municipality ☐ Tribal

☐ *business entity (* if a business entity complete i through iii):

i) Check type ☐ corporation ☐ limited liability company ☐ limited partnership ☐ limited liability partnership ☐ statutory trust ☐ Other:

ii) Provide Secretary of the State Business ID #: This information can be accessed at the Secretary of the State's database (CONCORD). (www.concord-sots.ct.gov/CONCORD/index.jsp)

iii) ☐ Check here if your business is **NOT** registered with the Secretary of State's office.

b) Acting as (Affiliation), pick one:

☐ Property owner ☐ Consultant ☐ Engineer ☐ Facility owner ☐ Applicant

☒ Biologist ☐ Pesticide Applicator ☐ Other representative:

2. List Primary Contact to receive Natural Diversity Data Base correspondence and inquiries, if different from requester.

Company Name:

Contact Person: Title:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: ext.

**E-mail:

Part III: Site Information

This request can only be completed for one site. A separate request must be filed for each additional site.

1. SITE NAME AND LOCATION

Site Name or Project Name: **New Haven Coastal Storm Risk Management Feasibility Study**

Town(s): **New Haven**

Street Address or Location Description:
Long Wharf Park

Size in acres, or site dimensions: **940 acres**

Latitude and longitude of the center of the site in decimal degrees (e.g., 41.23456 -71.68574):

Latitude: **41.293082** Longitude: **-72.920508**

Method of coordinate determination (check one):

☐ GPS ☐ Photo interpolation using CTECO map viewer ☒ Other (specify): **ArcGIS**

2a. Describe the current land use and land cover of the site.

Developed commercial land and Interstate-95 will be protected by the selected plan. Long Wharf Park along New Haven Harbor is open parkland.

b. Check all that apply and enter the size in acres or % of area in the space after each checked category.

☒ Industrial/Commercial _____ ☐ Residential _____ ☐ Forest _____

☒ Wetland _____ ☒ Field/grassland _____ ☐ Agricultural _____

☒ Water _____ ☐ Utility Right-of-way _____

☐ Transportation Right-of-way _____ ☐ Other (specify): _____

Part IV: Project Information

1. PROJECT TYPE:

Choose Project Type: Dock/Pier, Seawall, Bulkhead construction/Maint. , If other describe: _____

2. Is the subject activity limited to the maintenance, repair, or improvement of an existing structure within the existing footprint? ☐ Yes ☒ No If yes, explain.

Part IV: Project Information (continued)

3. Give a detailed description of the activity which is the subject of this request and describe the methods and equipment that will be used. Include a description of steps that will be taken to minimize impacts to any known listed species.

   The activity may consist of several separate or combined alternative actions to address coastal storm damage to the Long Wharf area of New Haven including the Union Street Railyard. The alternative requiring the most construction consists of a floodwall running along the shorefront of Long Wharf Park, extending from the Vietnam Veterans Memorial Park in the south to the intersection of East Street and West Street in the north. Other alternatives are various placement locations of the floodwall and/or nonstructural alternatives such as first-floor floodproofing. As the study progresses, alternatives will be narrowed down, but the intent of this request is to obtain a species list for the overall project area.

4. If this is a renewal or extension of an existing Safe Harbor request *with* modifications, explain what about the project has changed.

5. Provide a contact for questions about the project details if different from Part II primary contact.

   Name:

   Phone:

   E-mail:

Part V: Request Requirements and Associated Application Types

Check *one* box from either Group 1, Group 2 *or* Group 3, indicating the appropriate category for this request.

Group 1. If you check one of these boxes, complete Parts I – VII of this form and submit the required attachments A and B.

- ☐ Preliminary screening was negative but an NDDB review is still requested
- ☐ Request regards a municipally regulated or unregulated activity (no state permit/certificate needed)
- ☒ Request regards a preliminary site assessment or project feasibility study
- ☐ Request relates to land acquisition or protection
- ☐ Request is associated with a *renewal* of an existing permit or authorization, with no modifications

Group 2. If you check one of these boxes, complete Parts I – VII of this form and submit required attachments A, B, *and* C.

- ☐ Request is associated with a *new* state or federal permit or authorization application or registration
- ☐ Request is associated with modification of an existing permit or other authorization
- ☐ Request is associated with a permit enforcement action
- ☐ Request regards site management or planning, requiring detailed species recommendations
- ☐ Request regards a state funded project, state agency activity, or CEPA request

☐ **Group 3.** If you are requesting a **Safe Harbor Determination**, complete Parts I-VII and submit required attachments A, B, and D. Safe Harbor determinations can only be requested if you are applying for a GP for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

If you are filing this request as part of a state or federal permit application(s) enter the application information below.

Permitting Agency and Application Name(s): _____

Related State DEEP Permit Number(s), if applicable: _____

State DEEP Enforcement Action Number, if applicable: _____

State DEEP Permit Analyst(s)/Engineer(s), if known: _____

Is this request related to a previously submitted NDDB request? ☐ Yes ☒ No

If yes, provide the previous NDDB Determination Number(s), if known: _____

Part VI: Supporting Documents

Check each attachment submitted as verification that *all* applicable attachments have been supplied with this request form. Label each attachment as indicated in this part (e.g., Attachment A, etc.) and be sure to include the requester's name, site name and the date. **Please note that Attachments A and B are required for all new requests and Safe Harbor renewals/extensions with modifications.** Renewals/Extensions with no modifications do not need to submit any attachments. Attachments C and D are supplied at the end of this form.

☒ Attachment A:	**Overview Map:** an 8 1/2" X 11" print/copy of the relevant portion of a USGS Topographic Quadrangle Map clearly indicating the exact location of the site.
☒ Attachment B:	**Detailed Site Map:** fine scaled map showing site boundary and area of work details on aerial imagery with relevant landmarks labeled. (Site and work boundaries in GIS [ESRI ArcView shapefile, in NAD83, State Plane, feet] format can be substituted for detailed maps, see instruction document)
☐ Attachment C:	**Supplemental Information, Group 2 requirement (attached, DEEP-APP-007C)** ☐ Section i: Supplemental Site Information and supporting documents ☐ Section ii: Supplemental Project Information and supporting documents
☐ Attachment D:	**Safe Harbor Report Requirements, Group 3 (attached, DEEP-APP-007D)**

Part VII: Requester Certification

The requester *and* the individual(s) responsible for actually preparing the request must sign this part. A request will be considered incomplete unless all required signatures are provided.

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief."

C. Grace Moses Signature of Requester (a typed name will substitute for a handwritten signature)	**6/18/2019** Date
Grace Moses Name of Requester (print or type)	**Project Biologist** Title (if applicable)
Signature of Preparer (if different than above)	Date
Name of Preparer (print or type)	Title (if applicable)

Note: Please submit the completed Request Form and all Supporting Documents to:

CENTRAL PERMIT PROCESSING UNIT
DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

Or email request to: **deep.nddbrequest@ct.gov**

Attachment C: Supplemental Information, Group 2 requirement

Section i: Supplemental Site Information

1. Existing Conditions

Describe all natural and man-made features including wetlands, watercourses, fish and wildlife habitat, floodplains and any existing structures potentially affected by the subject activity. Such features should be depicted and labeled on the site plan that must be submitted. Photographs of current site conditions may be helpful to reviewers.

☐ **Site Photographs (optional) attached**

☐ **Site Plan/sketch of existing conditions attached**

2. Biological Surveys

Has a biologist visited the site and conducted a biological survey to determine the presence of any endangered, threatened or special concern species ☐ Yes ☐ No

If yes, complete the following questions and submit any reports of biological surveys, documentation of the biologist's qualifications, and any NDDB survey forms.

Biologist(s) name: _____

Habitat and/or species targeted by survey: _____

Dates when surveys were conducted: _____

☐ **Reports of biological surveys attached**

☐ **Documentation of biologist's qualifications attached**

☐ **NDDB Survey forms for any listed species observations attached**

Section ii: Supplemental Project Information

1. Provide a schedule for all phases of the project including the year, the month and/or season that the proposed activity will be initiated and the duration of the activity.

2. Describe and quantify the proposed changes to existing conditions and describe any on-site or off-site impacts. In addition, provide an annotated site plan detailing the areas of impact and proposed changes to existing conditions.

☐ **Annotated Site Plan attached**

Attachment D: Safe Harbor Report Requirements

Submit a report, as Attachment D, that synthesizes and analyzes the information listed below. Those providing synthesis and analysis need appropriate qualifications and experience. A request for a safe harbor determination shall include:

1. **Habitat Description and Map(s), including GIS mapping overlays, of a scale appropriate for the site, identifying:**

    - wetlands, including wetland cover types;
    - plant community types;
    - topography;
    - soils;
    - bedrock geology;
    - floodplains, if any;
    - land use history; and
    - water quality classifications/criteria.

2. **Photographs** - The report should include photographs of the site taken from the ground and also all reasonably available aerial or satellite photographs and an analysis of such photographs.

3. **Inspection** - A visual inspection(s) of the site should be conducted, preferably when the ground is visible, and described in the report. This inspection can be helpful in confirming or further evaluating the items noted above.

4. **Biological Surveys** - The report should include all biological surveys of the site where construction activity will take place that are reasonably available to a registrant. A registrant shall notify the Department's Wildlife Division of biological studies of the site where construction activity will take place that a registrant is aware of but are not reasonably available to the registrant.

5. **Based on items #1 through 4 above, the report shall include a Natural Resources Inventory of the site of the construction activity.** This inventory should also include a review of reasonably available scientific literature and any recommendations for minimizing adverse impacts from the proposed construction activity on listed species or their associated habitat.

6. **In addition, to the extent the following is available at the time a safe harbor determination is requested, a request for a safe harbor determination shall include and assess:**

    - Information on Site Disturbance Estimates/Site Alteration information
    - Vehicular Use
    - Construction Activity Phasing Schedules, if any; and
    - Alteration of Drainage Patterns

Legend

Focused Study Area

New Haven Study Location

0 0.5 1 2 Miles

Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere

Legend

Focused Study Area

Natural Diversity Area

N
W
E
S

New Haven Natural Diversity Areas

0 0.25 0.5 1 Miles

Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

June 27, 2019

Grace Moses
U.S. Army Corps of Engineers
696 Virginia Rd
Concord MA 02155
c.grace.moses@usace.army.mil

Project: Preliminary Assessment for New Haven Coastal Storm Risk Management Feasibility Study, Long Wharf Park in New Haven, CT
NDDB Preliminary Assessment No.: 201907766

Dear Ms. Moses,

I have reviewed Natural Diversity Database maps and files regarding the area delineated on the map provided for a preliminary assessment of the New Haven Coastal Storm Risk Management Feasibility Study at Long Wharf Park in New Haven, Connecticut.

According to our records there are known extant and historic populations of State Listed Species that occur within or close to the boundaries of this project. I have attached a list of species known from this area. Please be advised that this is a preliminary review and not a final determination. A more detailed review will be necessary to move forward with any environmental permit applications submitted to DEEP for the proposed project. **This preliminary assessment letter cannot be used or submitted with permit applications at DEEP**. This letter is valid for one year.

To prevent impacts to State-listed species, field surveys of the site should be performed by a qualified biologist(s) with the appropriate scientific collecting permits at a time(s) when these target species are identifiable. A report summarizing the results of such surveys should include:

1. Survey date(s) and duration
2. Site descriptions and photographs
3. List of component vascular plant and animal species within the survey area (including scientific binomials)
4. Data regarding population numbers and/or area occupied by State-listed species
5. Detailed maps of the area surveyed including the survey route and locations of State listed species
6. Statement/résumé indicating the biologist's qualifications
7. Proposed protection plan, avoidance measures or mitigation for species in areas potentially impacted by the project or an explanation of why these species and their habitats will not be impacted

The site surveys report should be sent to our CT DEEP-NDDB Program (deep.nddbrequest@ct.gov) for further review by our program biologists along with an updated request for another NDDB review. Incomplete reports may not be accepted.

If you do not intend to do site surveys to determine the presence or absence of state-listed species, then you should presume species are present and let us know how you will protect the state-listed species from being impacted by this project. You may submit these best management practices or protection plans with your new request for an NDDB review. After reviewing your new NDDB request form and the documents describing how you will protect this species from project impacts we will make a final determination and provide you with a letter from our program to use with DEEP-Permits.

Natural Diversity Database information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey, cooperating units of DEEP, landowners, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the NDDB should not be substitutes for onsite surveys necessary for a thorough environmental impact assessment. The result of this review does not preclude the possibility that listed species may be encountered on site and that additional action may be necessary to remain in compliance with certain state permits.

Please contact me if you have further questions at (860) 424-3378, or karen.zyko@ct.gov . Thank you for consulting the Natural Diversity Data Base.

Sincerely,

Karen Zyko
Environmental Analyst

Species List for NDDB Request

Scientific Name	Common Name	State Status
Invertebrate Animal		
Brachinus medius	Bombardier beetle	SC
Brachinus ovipennis	Bombardier beetle	SC
Vascular Plant		
Asclepias viridiflora	Green milkweed	E
Cirsium horridulum	Yellow thistle	E
Coeloglossum viride	Long-bracted green orchid	E
Opuntia humifusa	Eastern prickly pear	SC
Pedicularis lanceolata	Swamp lousewort	T
Vertebrate Animal		
Acipenser oxyrinchus oxyrinchus	Atlantic sturgeon	E
Eremophila alpestris	Horned lark	E
Malaclemys terrapin terrapin	Northern diamondback terrapin	SC
Opheodrys vernalis	Smooth green snake	SC
Rana pipiens	Northern leopard frog	SC
Falco sparverius	American kestrel	SC
Alosa aestivalis	Blueback herring	SC

E = Endangered, T = Threatened, SC = Special Concern