



**New Jersey Department of Environmental Protection  
Hurricane Sandy  
Community Development Block Grant  
Form – 2: Assessment of Effects (Version 1.0)**



**HPO USE ONLY**

<b>Application ID #</b>	AC Bulkheads		
<b>Applicant Name:</b>	Lower Chelsea Bulkhead		
<b>Street Address:</b>	North Jackson Avenue, to North Trenton Avenue		
<b>Municipality:</b>	City of Atlantic City	<b>County:</b>	Atlantic
<b>PAMS PIN:</b>	0102_Multiple_Multiple		
<b>Latitude:</b>	Multiple	<b>Longitude:</b>	Multiple

<b>Undertaking:</b>	<input type="checkbox"/> Rehabilitation:	<input type="checkbox"/> Interior	<input checked="" type="checkbox"/> Exterior	<input type="checkbox"/> Both	<input checked="" type="checkbox"/> Elevation
	<input checked="" type="checkbox"/> Reconstruction:	<input checked="" type="checkbox"/> Within Existing Footprint, plus 2 feet		<input type="checkbox"/> Outside Existing Footprint	

<b>Property Description:</b>	Ponzio Engineering has been retained by Atlantic City to complete plans and specifications to replace City owned bulkheads along the Back Bay. Design and permitting is expected to be completed by mid-2020 and construction is scheduled to be completed by the end of 2021. Existing City owned bulkheads will be replaced with elevated bulkheads. A map depicting a total of nine (9) sections of bulkhead to be replaced is provided as an attachment.
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<b>Current Property Status</b>	
National Historic Landmark?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
National Register of Historic Places Listed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within a National Register of Historic Places Historic District?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	<input type="checkbox"/> Contributing <input type="checkbox"/> Non-Contributing
Does the property have a SHPO Opinion or COE?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within a Known Archaeological Site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within an Area of High Archaeological Sensitivity?	<input type="checkbox"/> Area of Previous Historic Occupation <input type="checkbox"/> Property Located within HPO's Archaeological Site Sensitivity Grid <input type="checkbox"/> Area Located on Well-Drained Soils located within 500 feet of waterways, wetland complexes, or relict glacial features.

<b>Preliminary Property Evaluation</b>	
<input type="checkbox"/> Further Survey Necessary:	<input type="checkbox"/> Archaeological <input type="checkbox"/> Historic Architecture
<input checked="" type="checkbox"/> No Further Survey Necessary	
<input type="checkbox"/> Recommend Eligible:	<input type="checkbox"/> Individual <input type="checkbox"/> Contributing to:
	Criteria: [Check All That Apply] <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D
<b>Reasoning:</b>	
<input type="checkbox"/> Recommend Ineligible:	<input type="checkbox"/> Lacks Integrity of Materials/Design <input type="checkbox"/> Not 48 Years of Age <input type="checkbox"/> Not Within / In View of a National Register of Historic Places Listed / Eligible Historic District <input type="checkbox"/> Not a Building (per FEMA Definition) <input type="checkbox"/> Other – Lacks Distinctive Characteristics That Make It Individually Eligible for Listing on NRHP

Architecture Reviewer	CR Staff, ICF	Archaeology Reviewer	Lauran Switzer, ICF
Date Reviewed	5/6/2020		

Required Documentation: ☒ Historic Properties Map ☒ Soils Map ☒ USGS Quad ☒ Property Photos



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<b>Property Address:</b>	North Jackson Avenue, to North Trenton Avenue, Atlantic City NJ

<b>Assessment of Effects</b>	<input type="checkbox"/> No Historic Properties Adversely Affected
	<input checked="" type="checkbox"/> No Historic Properties Adversely Affected, provided the following conditions are met: The proposed work is not located in an identified, NRHP-eligible or NRHP-listed historic district, is not a building (per FEMA definition), lacks distinctive characteristics that make it individually eligible for listing on NRHP and is not located within a Historic Archaeological Site Grid. In addition, the proposed work is located in an urbanized area on a barrier island. Since the project involves replacing and elevating bulkheads, the work will substantially conform to the original footprint within pre-disturbed soils, the area has a low potential for containing significant archaeological sites. Thus, this assessment concludes that the proposed project will result in <b>No Historic Properties Affected provided the project avoids cultural resources sites.</b>
	<input type="checkbox"/> Adverse Effect

<b>National Historic Landmark Consultation Process [If Applicable]</b>	
Undertaking Located Within NHL:	<input type="checkbox"/> National Park Service
Applying Allowances As Defined in Programmatic Agreement:	<input type="checkbox"/> National Park Service <input type="checkbox"/> State Historic Preservation Office
	Tier I:
	Tier II:
Adverse Effect:	<input type="checkbox"/> National Park Service <input type="checkbox"/> State Historic Preservation Office <input type="checkbox"/> Advisory Council on Historic Preservation

<b>Resolution of Adverse Effects</b>	<input type="checkbox"/> Abbreviated Consultation Process	Treatment Measure:
	<input type="checkbox"/> Memorandum of Agreement	
	<input type="checkbox"/> Programmatic Agreement	

<b>Public Consultation</b>	
	Federally Recognized Tribes, Certified Local Governments, Historic Preservation Commissions, etc: None. Provided the proposed project avoids any known cultural resource sites, further consultation is not required.

<b>HISTORIC PRESERVATION OFFICE USE ONLY</b>	
<input type="checkbox"/> I concur with this finding,	
<input type="checkbox"/> I do not concur with this finding for the following reason(s):	
Daniel D. Saunders Deputy State Historic Preservation Officer	Date

Architecture Reviewer	CR Staff, ICF	Archaeology Reviewer	Lauran Switzer, ICF
Date Reviewed	5/6/2020		

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**Project Description:**

**Scope of Work**

- A. The City is seeking to complete the design, permitting, development of plans/ specifications and bidding, and construction assistance for the replacement of bulkhead along the designated project area - Sunset Avenue between the Atlantic City Expressway and Albany Avenue in the Ducktown/Chelsea Neighborhoods.
- B. This project includes engineering design services that shall result in bid-ready signed/sealed plans and specifications; application/acquisition of all associated permits that may be required; and bidding and construction assistance.
- C. General Project description which shall be implemented into design:
  1. Utilize due diligence, utility mark-outs, existing conditions, and survey information to generate a base map as needed, including but not limited to the use of aerial images and ground penetrating radar (GPR) services if deemed necessary.
  2. Determine the regulatory agency jurisdictional limits, and low and high-water level elevations.
  3. Develop the design plans, details, cross sections, and specifications report as necessary. These documents will be utilized for all permitting, bidding and construction, including but not limited to: the demolition, removal, repair and replacement of all elements of the bulkhead, including all associated items, such as check valves, weep holes, and reference to the required and recommended bulkhead height and the repair and replacement of any and all sidewalk, ADA ramps, curbing, roadways, driveways, landscaping, utilities, etc. within the project limit as necessary.
  4. Traffic engineering and soil erosion sediment control design services.
  5. Coordination with various utility companies as may be required during the design phase (e.g., scheduling, for potential conflicts with the proposed work, etc.).
  6. Coordination with City, County, Regional, State and Federal agencies as may be required during the design phase or as directed by the City.
  7. The City does not have copies of the original construction plans or permits for this bulkhead section.
  8. The City is not aware of whether the bulkhead sections have been bumped out 24"; however, the Engineer will need to make this determination as part of their design investigation.
  9. The City does not have copies of the tideland's leases, grants and licenses for the bulkhead sections.
  10. Identify individual properties and infrastructure that will anticipate receiving protection from the subject project, and to what extent those properties and structures will be protected.
  11. The plans and bid specifications shall be in compliance with the State's Local Public Contract Law (N.J.S.A. 40A11-1et seq.), etc.
  12. Provide a signed digital copy of the final plans and specifications and three (3) signed and sealed paper copies of all documents needed for bidding and filing purposes to the City Engineer's Office.
  13. Provide signed and sealed plans, specifications, application and all supportive documentation as necessary for permitting, application and agency response purposes, as required or applicable to this project, and obtain and provide all permit(s), approval(s), etc.

**I. Detailed Scope of Work**

**A. Inspection, Surveying and Conditions Assessment Report**

Perform existing conditions survey, topographic and property boundary survey services for the entire project area. Provide individual surveys and descriptions for any and all private properties that will be impacted by this project. The City will secure all necessary easements.

Evaluate the existing bulkhead, adjacent sidewalk, road ends, landscaping and utilities within the project limits, prioritize the areas that are in most need of replacement and/or repair and coordinate with the City Engineer's office.

Architecture Reviewer	CR Staff, ICF	Archaeology Reviewer	Lauran Switzer, ICF
Date Reviewed	5/6/2020		

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The consultant will conduct an inventory and condition assessment of all the bulkhead, outfall structures, outfall protection, manholes, manhole laterals, inlets, inlet laterals, and storm sewer/canals, and check valve based on visual inspection and review of any additional plans or documents that may exist showing these improvements and their locations.

Develop a schedule of itemized maintenance costs that incorporates inspection, maintenance/repair and project useful life standards on an annual basis and over the course of the project's useful life.

This report will include a capital improvement plan with cost estimates and maintenance schedule.

**B. Engineering Design**

Develop the design plans, details, cross sections and specifications report as necessary for the following:

- Reset manhole frames/castings, water valve boxes, etc. as required throughout.
- Construct standard stormwater inlets in place of the existing inlets as required, including the installation cast iron frames, grates, and curb heads and the addition of trash bars to the existing granite curb heads and/or repairs to existing inlets if needed, etc.
- Striping: various dimension thermoplastic traffic markings, labeling, line striping, crosswalks, hatching, etc. as required throughout.
- Survey and design of all curb ramps, detectable warning surfaces, crosswalks. etc., to comply with all current applicable ADA and PROWAG standards.
- Ensure proper drainage throughout the project limits, including intersections, curb ramps, etc.
- Traffic and detour plan, including police detail and associated rate requirements as per NJDOT guidelines.

**Assessment of Affects:**

The proposed work is not located in an identified, NRHP-eligible or NRHP-listed historic district, is not a building (per FEMA definition), lacks distinctive characteristics that make it individually eligible for listing on NRHP and is not located within a Historic Archaeological Site Grid. In addition, the proposed work is located in an urbanized area on a barrier island. Since the project involves replacing and elevating bulkheads, the work will substantially conform to the original footprint within pre-disturbed soils, the area has a low potential for containing significant archaeological sites.

Thusly, this assessment concludes that the proposed project will result in **No Historic Properties Affected provided the project avoids cultural resources sites.**

Architecture Reviewer	CR Staff, ICF	Archaeology Reviewer	Lauran Switzer, ICF
Date Reviewed	5/6/2020		

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**Site Map:**



Atlantic City Bulkhead Evaluation  
Sunset and Winchester Avenue from Jackson Ave to North Albany Ave.

**Sources:**

NJDEP HUD Environmental Review Tool 3.0. New Jersey Department of Environmental Protection. Website: <https://www.arcgis.com/home/webmap/viewer.html?webmap=ac492b24c7cc472ea5cf2f57cfaf65ab#!>. Accessed: 5/1/2020.

USDA Natural Resources Conservation Service. Web Soil Survey National Cooperative Soil Survey. Website: [https://websoilsurvey.sc.egov.usda.gov/WssProduct/niyklzcxmarbayby3hzgflcq/niyklzcxmarbayby3hzgflcq/20200502\\_06263006314\\_72\\_Soil\\_Map.pdf](https://websoilsurvey.sc.egov.usda.gov/WssProduct/niyklzcxmarbayby3hzgflcq/niyklzcxmarbayby3hzgflcq/20200502_06263006314_72_Soil_Map.pdf). Accessed: 5/1/2020.

U.S. Department of Interior. U.S. Geological Survey (USGS) Atlantic City Quadrangle. New Jersey 7.5 Minute Series. Website: <https://viewer.nationalmap.gov/basic/?basemap=b1&category=histtopo,ustopo&title=Map%20View#productSearch>. Accessed: 5/1/2020.

Architecture Reviewer	CR Staff, ICF	Archaeology Reviewer	Lauran Switzer, ICF
Date Reviewed	5/6/2020		

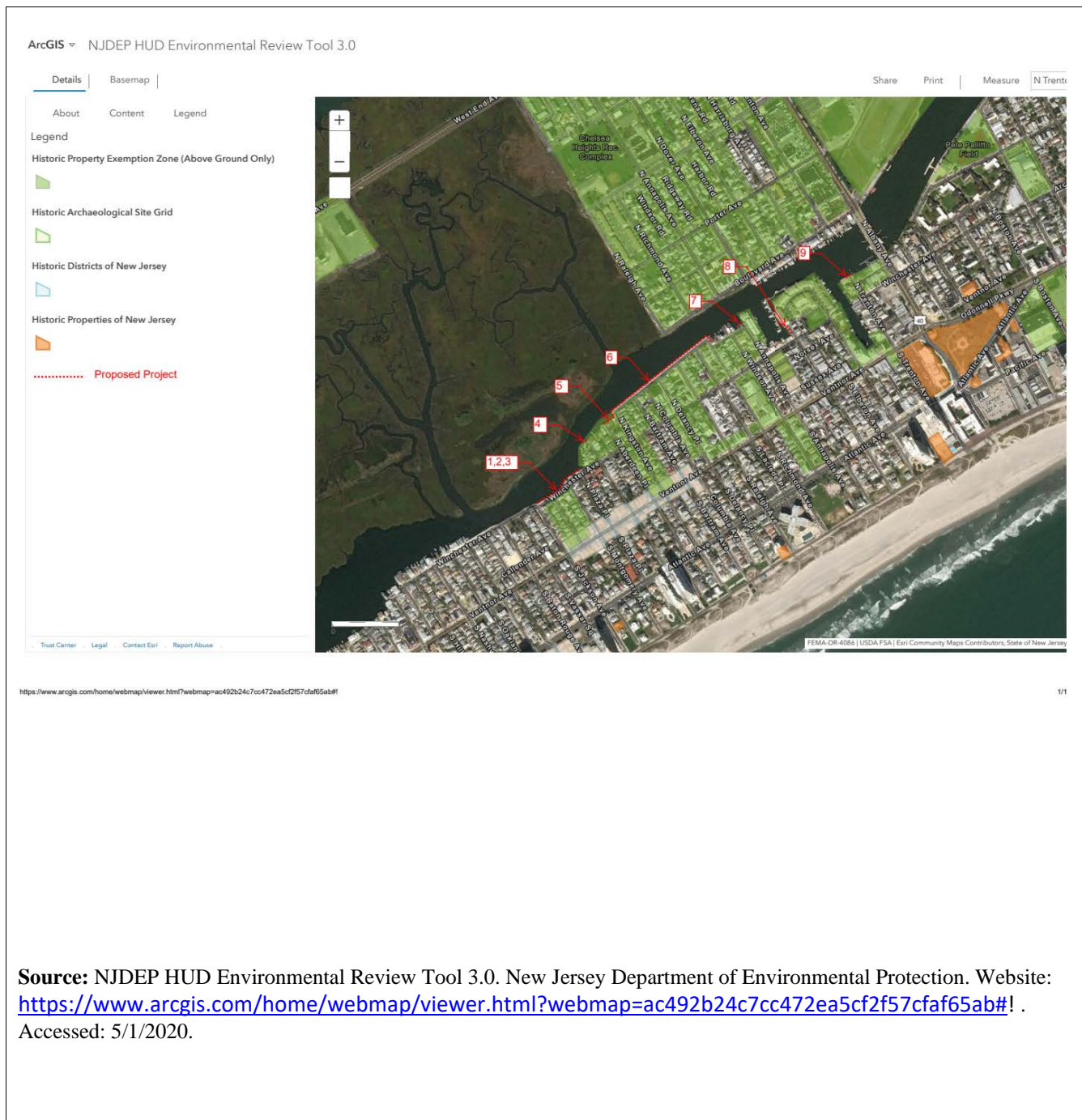
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Applicant ID #	AC Bulkheads
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Historic Properties Map





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## Map Unit Legend

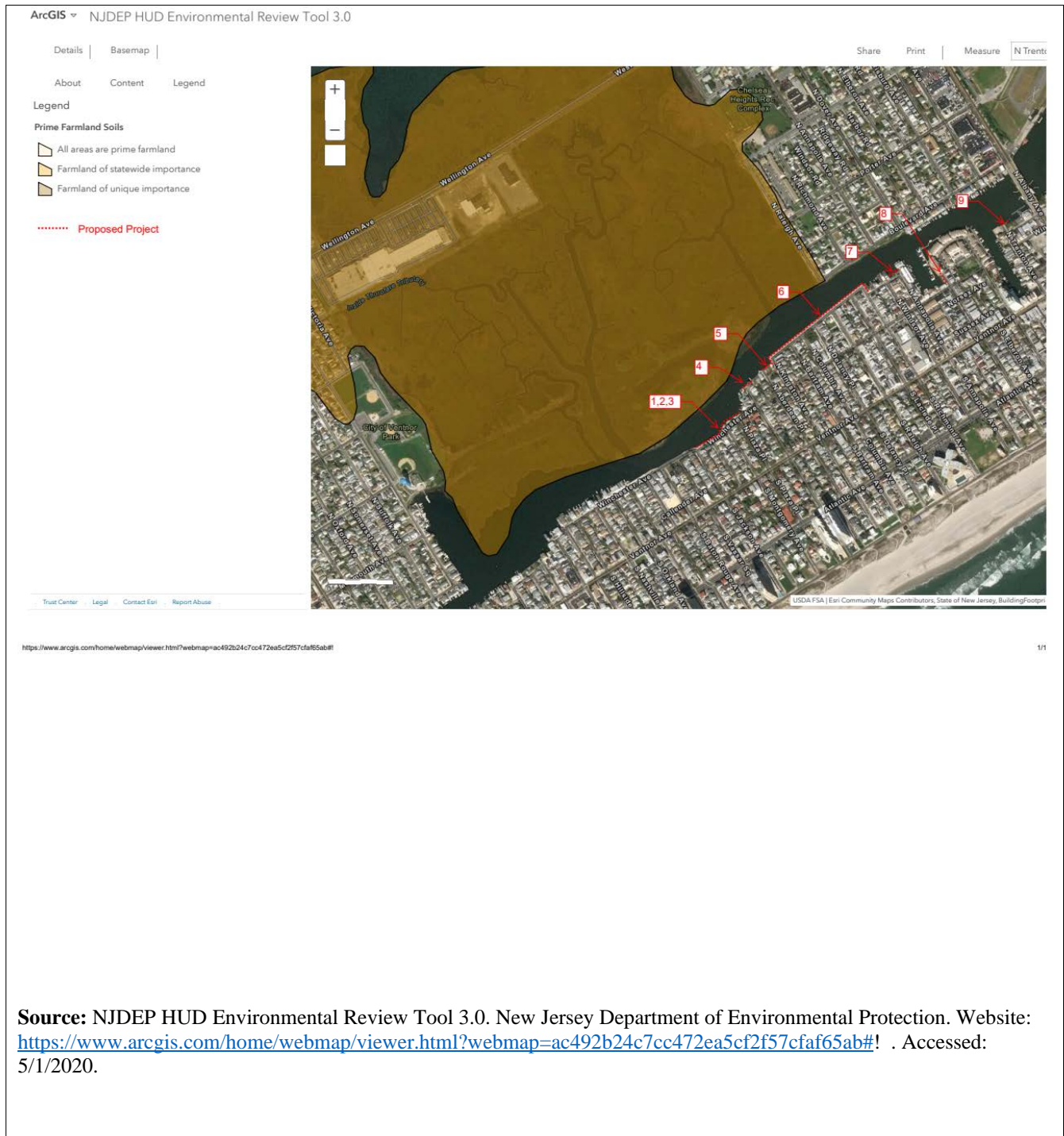
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BEADV	Beaches, 0 to 15 percent slopes, very frequently flooded	5.3	1.7%
HoruBr	Hooksan-Urban land complex, 0 to 10 percent slopes, rarely flooded	7.7	2.6%
PssA	Psammments, 0 to 2 percent slopes	20.4	6.7%
PstAt	Psammaquents, sulfidic substratum, 0 to 2 percent slopes, frequently flooded	184.2	60.8%
TrkAv	Transquaking mucky peat, 0 to 1 percent slopes, very frequently flooded	49.2	16.2%
WATER	Water	36.1	11.9%
Totals for Area of Interest		302.8	100.0%

**Source:** USDA Natural Resources Conservation Service. Web Soil Survey National Cooperative Soil Survey. Website: [https://websoilsurvey.sc.egov.usda.gov/WssProduct/niyklzcxmarbayby3hzgflcq/niyklzcxmarbayby3hzgflcq/20200502\\_06263006314\\_72\\_Soil\\_Map.pdf](https://websoilsurvey.sc.egov.usda.gov/WssProduct/niyklzcxmarbayby3hzgflcq/niyklzcxmarbayby3hzgflcq/20200502_06263006314_72_Soil_Map.pdf). Accessed: 5/1/2020.





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Soils Map

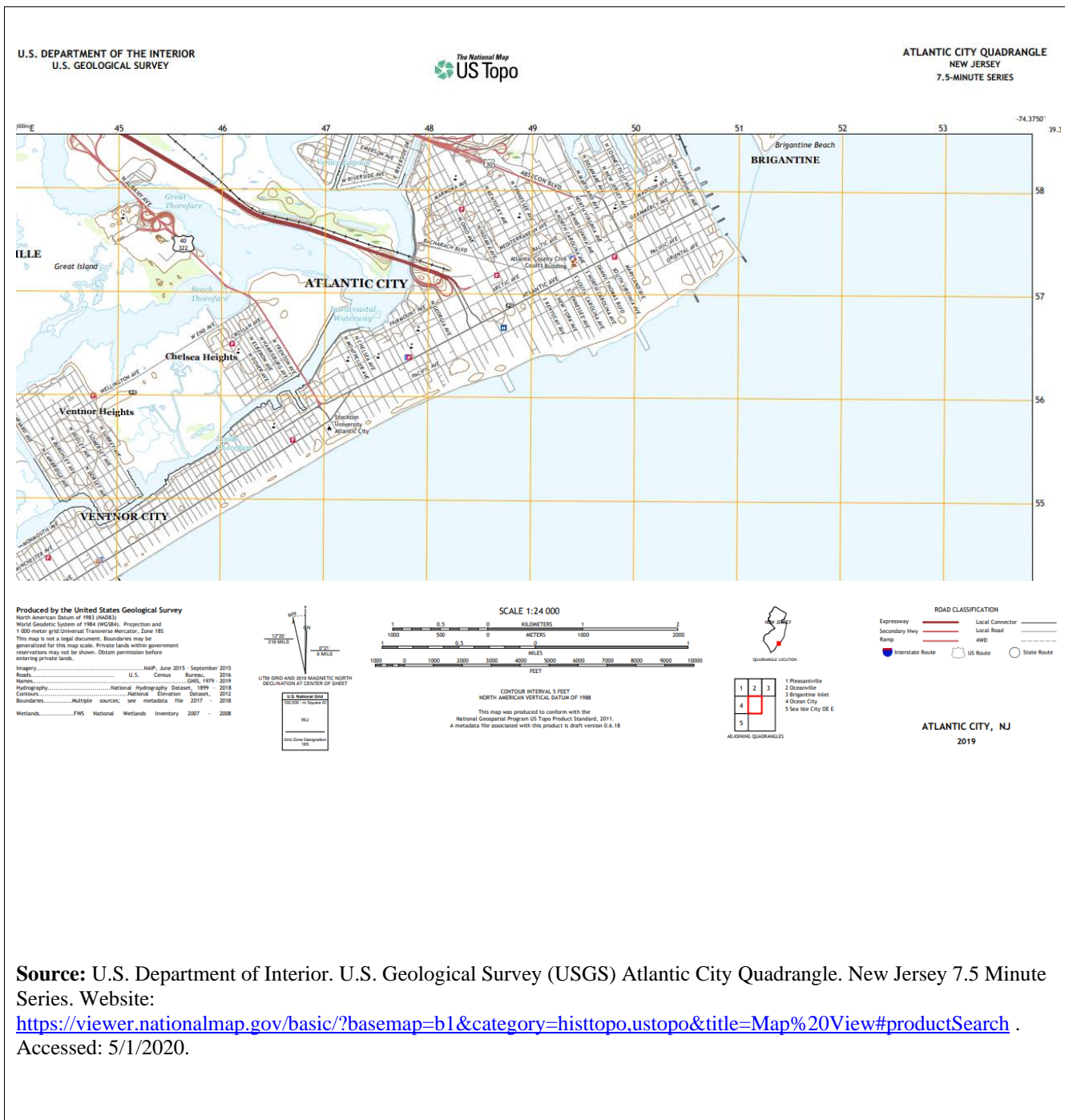
V1.0 9/26/13



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Source: U.S. Department of Interior. U.S. Geological Survey (USGS) Atlantic City Quadrangle. New Jersey 7.5 Minute Series. Website:  
<https://viewer.nationalmap.gov/basic/?basemap=b1&category=histtopo.ustopo&title=Map%20View#productSearch> .  
Accessed: 5/1/2020.

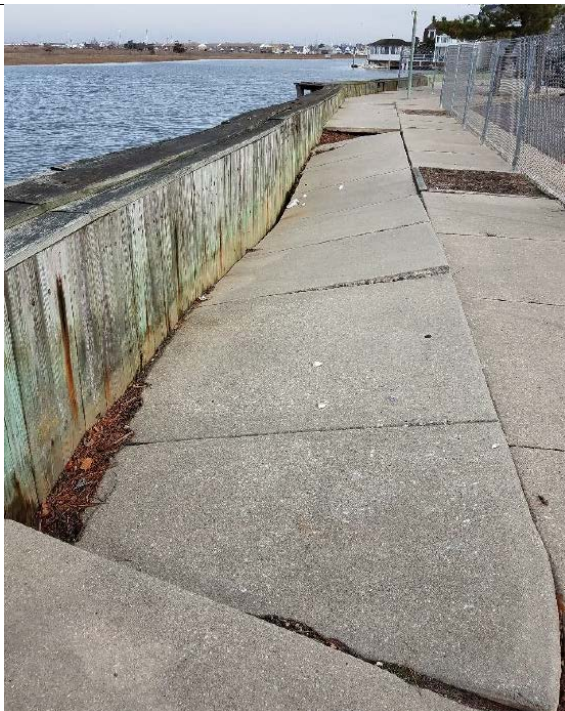
USGS Quadrangle : Atlantic City




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<b>Applicant ID #</b>	AC Bulkheads
<b>Property Address:</b>	North Jackson Avenue, to North Trenton Avenue, Atlantic City NJ

Date:	2/12/2020	
Direction:	Northeast	
Description:	<p>Vie of sidewalk between the Thorofare and Winchester Avenue (Sections 1, 2, 3). Sidewalk has caved in due to erosion underneath. View of fence in background closing off this section of the sidewalk.</p>	

Date:	2/12/2020	
Direction:	Southwest	
Description:	View of warped bulkhead piling and broken bulkhead railing in Section 1, 2, 3.	







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<b>Date:</b>	2/12/2020	
<b>Direction:</b>	Northeast	
<b>Description:</b>	View of broken bulkhead railing in Section 1, 2, 3.	

<b>Date:</b>	2/12/2020	
<b>Direction:</b>	Northwest	
<b>Description:</b>	View of hole in bulkhead and debris in Section 5 at the end of N. Aberdeen Place.	







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<b>Date:</b>	2/12/2020			
<b>Direction:</b>	Northeast			
<b>Description:</b>	View of collapsed sidewalk in Section 6 along Sunset Avenue due to erosion. Fence closing this section of sidewalk in the background.			


<b>Date:</b>	2/12/2020			
<b>Direction:</b>	Southeast			
<b>Description:</b>	View of dilapidated bulkhead at the end of Section 6, towards N Richmond Avenue.			

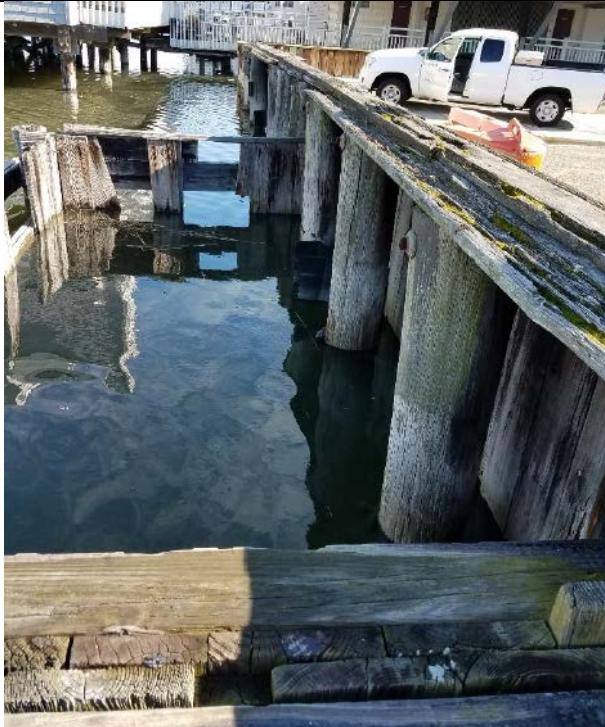


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<b>Date:</b>	2/12/2020	
<b>Direction:</b>	North	
<b>Description:</b>	View of flooding and convergence of City and privately-owned bulkheads in Section 7. It is assumed that the left portion of the bulkhead is City-owned.	

<b>Date:</b>	2/12/2020	
<b>Direction:</b>	Northeast	
<b>Description:</b>	View of dilapidated water-side portion of City-owned bulkhead in Section 7.	







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<b>Property Address:</b>	North Jackson Avenue, to North Trenton Avenue, Atlantic City NJ

<b>Date:</b>	2/12/2020	
<b>Direction:</b>	South	
<b>Description:</b>	View of Section 8 along N Dover Avenue. No bulkhead currently existing. Embankment is severely eroded.	

<b>Date:</b>	2/12/2020	
<b>Direction:</b>	Northeast	
<b>Description:</b>	View of Section 9 bulkhead at the end of N Trenton Avenue.	