

June 07, 2022

Ms. Jennifer Holmes
DNREC, Delaware Coastal Programs
100 W. Water St. Suite 7B
Dover, DE 19904

Re: [Delaware Department of Natural Resources and Environmental Control](#)
[Cape Shores Beach Renourishment](#)

Dear Ms. Holmes:

On behalf of DNREC's Division of Watershed Stewardship, Moffatt & Nichol is submitting a requesting a permit to perform the placement of sand fill at the Cape Shores beach along Delaware Bay. The project is for renourishment of a severely eroded beach via truck-fill method to provide erosion and storm damage protection to public streets, utilities, and private and commercial structures landward of the coastline. The project will also serve to restore a section of shoreline used for public recreation.

Enclosed you will find original copies of the following documents in support of our request:

- Federal Consistency Application
- Copy of USACE Application

DNREC would like to perform this work as early as the fall/winter of 2022-2023, and we would appreciate your processing a Consistency Determination for this permit application at your earliest convenience. Please direct all correspondence to M&N since we will be handling this matter for DNREC. If you should have any questions on the above and/or enclosed, please feel free to give me a call at (410) 563-7300.

Sincerely,

MOFFATT & NICHOL



Peter W. Kotulak, PE
Senior Coastal Engineer

Cc: Jesse Hayden, DNREC
Kathleen Bergin, DNREC



Initial Review: _____
Updated On: _____
Complete: _____
Official Use Only

Coastal Zone Management Act Federal Consistency Form

This document provides the Delaware Coastal Management Program (DCMP) with a Federal Consistency Determination or Certification for activities regulated under the Coastal Zone Management Act of 1972, as amended, and NOAA's Federal Consistency Regulations, 15 C.F.R. Part 930. Federal agencies and other applicants for federal consistency are not required to use this form; it is provided to applicants to facilitate the submission of a Consistency Determination or Consistency Certification. In addition, federal agencies and applicants are only required to provide the information required by NOAA's Federal Consistency Regulations.

Project/Activity Name: _____

I. Federal Agency or Non-Federal Applicant Contact Information:

Contact Name/Title: _____

Federal Agency Contractor Name (if applicable): _____

Federal Agency: _____
(either the federal agency proposing an action or the federal agency issuing a federal license/permit or financial assistance to a non-federal applicant)

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

E-mail: _____ Telephone #: _____

II. Federal Consistency Category:

Federal Activity or Development Project
(15 C.F.R. Part 930, Subpart C)

Federal License or Permit Activity
(15 C.F.R. Part 930, Subpart D)

Outer Continental Shelf Activity
(15 C.F.R. Part 930, Subpart E)

Federal License or Permit Activity which occurs
wholly in another state (interstate consistency
activities identified in DCMP's Policy document)

Federal Financial Assistance
(15 C.F.R. Part 930, Subpart F)

III. Detailed Project Description (attach additional sheets if necessary):

IV. General Analysis of Coastal Effects (attach additional sheets if necessary):

V. Detailed Analysis of Consistency with DCMP Enforceable Policies (attach additional sheets if necessary):

Policy 5.1: Wetlands Management

Policy 5.2: Beach Management

Policy 5.3: Coastal Waters Management (includes wells, water supply, and stormwater management. Attach additional sheets if necessary)

Policy 5.4: Subaqueous Land and Coastal Strip Management

Policy 5.5: Public Lands Management

Policy 5.6: Natural Lands Management

Policy 5.7: Flood Hazard Areas Management

Policy 5.8: Port of Wilmington

Policy 5.9: Woodlands and Agricultural Lands Management

Policy 5.10: Historic and Cultural Areas Management

Policy 5.11: Living Resources

Policy 5.12 Mineral Resources Management

Policy 5.13: State Owned Coastal Recreation and Conservation

Policy 5.14: Public Trust Doctrine

Policy 5.15: Energy Facilities

Policy 5.16: Public Investment

Policy 5.17: Recreation and Tourism

Policy 5.18: National Defense and Aerospace Facilities

Policy 5.19: Transportation Facilities

Policy 5.20: Air Quality Management

Policy 5.21: Water Supply Management

Policy 5.22: Waste Disposal Management

Policy 5.23: Development

Policy 5.24: Pollution Prevention

Policy 5.25: Coastal Management Coordination

VI. JPP and RAS Review (Check all that apply):

Has the project been reviewed in a monthly Joint Permit Processing and/or Regulatory Advisory Service meeting?

- JPP RAS None

*If yes, provide the date of the meeting(s): _____

VII. Statement of Certification/Determination and Signature (Check one and sign below):

FEDERAL AGENCY CONSISTENCY DETERMINATION. Based upon the information, data, and analysis included herein, the federal agency, or its contracted agent, listed in (I) above, finds that this proposed activity is consistent to the maximum extent practicable with the enforceable policies of the Delaware Coastal Management Program.

OR

FEDERAL AGENCY NEGATIVE DETERMINATION. Based upon the information, data, and analysis included herein, the federal agency, or its contracted agent, listed in (I) above, finds that this proposed activity will not have any reasonably foreseeable effects on Delaware's coastal uses or resources (Negative Determination) and is therefore consistent with the enforceable policies of the Delaware Coastal Management Program.

OR

NON-FEDERAL APPLICANT'S CONSISTENCY CERTIFICATION. Based upon the information, data, and analysis included herein, the non-federal applicant for a federal license or permit, or state or local government agency applying for federal funding, listed in (I) above, finds that this proposed activity complies with the enforceable policies of the Delaware Coastal Management Program and will be conducted in a manner consistent with such program.

Signature:	<i>Terry L. Deputy</i>		
Printed Name:		Date:	

Pursuant to 15 C.F.R. Part 930, the Delaware Coastal Management Program must provide its concurrence with or objection to this consistency determination or consistency certification in accordance with the deadlines listed below. Concurrence will be presumed if the state's response is not received within the allowable timeframe.

Federal Consistency Review Deadlines:

Federal Activity or Development Project (15 C.F.R. Part 930, Subpart C)	60 days with option to extend an additional 15 days or stay review (15 C.F.R. § 930.41)
Federal License or Permit (15 C.F.R. Part 930, Subpart D)	Six months, with a status letter at three months. The six month review period can be stayed by mutual agreement. (15 C.F.R. § 930.63)
Outer Continental Shelf Activity (15 C.F.R. Part 930, Subpart E)	Six months, with a status letter at three months. If three month status letter not issued, then concurrence presumed. The six month review period can be stayed by mutual agreement. (15 C.F.R. § 930.78)
Federal Financial Assistance to State or Local Governments (15 C.F.R. Part 930, Subpart F)	State Clearinghouse schedule

OFFICIAL USE ONLY:

Reviewed By:	Fed Con ID:	Date Received:
Public notice dates: _____ to _____	Comments Received: <input type="checkbox"/> NO <input type="checkbox"/> YES <i>[attach comments]</i>	
Decision type: <small>(objections or conditions attach details)</small>	Decision Date: _____	



Individual Permit Application Checklist

Project Name: Cape Shores Beach Renourishment

Applicant: DNREC
CENAP-OP-R

Contact Information:

- Name, address, telephone and fax numbers of the applicant.
- Name, title, address, telephone and fax numbers of the authorized agent, if applicable.
- Mailing addresses of adjacent property owners, local newspapers, post offices, and local government offices.

Project Location:

- Project street address, municipality, county, and state.
- Legal description of property (Block and Lot, Tax Map #, Parcel).
- Location map indicating project location and driving directions to the site.
- USGS Topographical Quadrangle map labeled with quad name and project location.
- Latitude and Longitude in degrees, minutes, and seconds.

Project Description:

- Project name.
- Project purpose, need, and intended use.
- Name of nearest waterbody.
- Project narrative describing all project features and anticipated temporary, permanent, and indirect environmental impacts, including method(s) of construction.
- Representative color photographs of the project site and plan of the photograph locations.
- NA Wetland delineation report, if available, including presence/absence and description of each type of wetlands for the entire project site. Field verification by the Corps of the delineation may be required.
- NA Submerged aquatic vegetation survey (if applicable).
- Type(s) and amount of fill material (cubic yardage) proposed for discharge below OHW or MHW.
- Surface area of wetlands or other waters filled in square footage/acreage.
- NA Location and description of any dredged material disposal site.

A written statement that clearly describes the following:

- Measures that have been taken to avoid impacts on aquatic resources (alternatives).
- Measures that have been taken to avoid and/or minimize any discharges into wetlands or waters of the U.S.
- Measures that have been developed to compensate for any impacts to wetlands or waters of the United States.

Plan Completeness:

- Scaled plans of the proposed work on 8 ½ by 11 inch paper, including existing conditions and cross-sections, of all work in areas of Federal jurisdiction.
- Half or full-sized scaled engineering drawings, if available.
- Complete title block, legend, scale, draft date, and latest revision date.
- Show north arrow on all plans.
- Limits of disturbance for the entire project site.
- Jurisdictional boundaries and dimensions of waters of the U.S., including wetlands, (indicated by Wetland Line, Ordinary High Water mark, High Tide Line, Mean High Water line, Mean Low Water line, as applicable), clearly labeled on plan and detail drawings.
- Location and limits of any temporary and/or permanent work (e.g. grading; temporary stockpiles, staging areas, dewatering/cofferdams, detention basins, and temporary access roads), required for the construction.
- NA Provide existing water depths, width of the waterway, and distance to Federal or other navigation channels for pier, dock, and dredging applications.
- NA Location of any shellfish beds in close proximity to the area of impact.
- NA Height of any cables, pipelines, or other structures above mean high water and depth of any cables or pipelines below mean low water.
- Maximum distance that any structures and/or fill would extend channelward of the mean high water line or ordinary high water in non-tidal areas.
- Show existing contours and the proposed contours indicating existing and proposed elevations, if available.



Individual Permit Application Checklist

Additional Information:

- Copies and/or status of previous Federal or State approvals and/or any other permits applied for, used, or intended to be used to authorize any part of the proposed project or related activity (CZM, WQC, etc).
- Environmental Questionnaire.

Mitigation Plan (if available)

- NA Construction plan and cross-sectional details for proposed mitigation site.
- NA Existing and proposed elevations.
- NA Pre-construction soil profiles.
- NA Source of hydrology for proposed site.
- NA Area of watershed feeding the proposed site.
- NA List of proposed plant types and quantities.
- NA Types of plantings (*e.g.* seed, cuttings, potted, etc.).
- NA Proposed planting scheme/layout.
- NA Acreage of proposed mitigation and/or mitigation ratios used.
- NA Monitoring plan and methodologies.
- NA Photographs of proposed mitigation site.

Note: Project-specific or clarifying information may be required by the U.S. Army Corps of Engineers for application processing.

U.S. Army Corps of Engineers (USACE)
APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT
 33 CFR 325. The proponent agency is CECW-CO-R.

Form Approved -
 OMB No. 0710-0003
 Expires: 02-28-2022

The public reporting burden for this collection of information, OMB Control Number 0710-0003, is estimated to average 11 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR APPLICATION TO THE ABOVE EMAIL.

PRIVACY ACT STATEMENT

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Programs of the Corps of Engineers; Final Rule 33 CFR 320-332. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of a public notice as required by Federal law. Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued. One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and/or instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned. System of Record Notice (SORN). The information received is entered into our permit tracking database and a SORN has been completed (SORN #A1145b) and may be accessed at the following website: <http://dpclid.defense.gov/Privacy/SORNs/Index/DOD-wide-SORN-Article-View/Article/570115/a1145b-ce.aspx>

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETE
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(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME First - Janice Middle - Last - Erich Company - President, Cape Shores Homeowners Association E-mail Address -ErichJanice@gmail.com			8. AUTHORIZED AGENT'S NAME AND TITLE (agent is not required) First - Terry Middle - Last - Deputy Company - DNREC Division of Watershed Stewardship E-mail Address -Terry.Deputy@delaware.gov		
6. APPLICANT'S ADDRESS: Cape Shores Homeowners Association Address- C/O Seascape Property Management 17563 Nassau Commons BLVD City - Lewes State - DE Zip - 19958 Country - US			9. AGENT'S ADDRESS: Address- 285 Beiser BLVD Suite 102 City - Dover State -DE Zip - 19958 Country - US		
7. APPLICANT'S PHONE NOs. w/AREA CODE a. Residence b. Business c. Fax 703-509-7771			10. AGENTS PHONE NOs. w/AREA CODE a. Residence b. Business c. Fax 302-739-9921		

STATEMENT OF AUTHORIZATION

11. I hereby authorize, Terry Deputy to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.


JANICE E. ERICH CAPE SHORES HOA
 SIGNATURE OF APPLICANT 8-11-2022
 DATE

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME OR TITLE (see instructions) Cape Shores Beach Renourishment			
13. NAME OF WATERBODY, IF KNOWN (if applicable) Delaware Bay		14. PROJECT STREET ADDRESS (if applicable) Address	
15. LOCATION OF PROJECT Latitude: +N 38.7838 Longitude: -W 75.1096		City - Lewes State- DE Zip- 19958	
16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions) State Tax Parcel ID Municipality Sussex County Section - Township - Range -			

17. DIRECTIONS TO THE SITE

To travel to Cape Shores from Dover, DE head east on E. Lookerman St., turn right onto US 13 S. for 0.1 miles, and then turn slightly left onto S. Bay Rd. Stay on S. Bay Rd. for 1.3 miles and then turn right onto DE 1 S. for 36.9 miles. Turn left onto US 9 E. for 1.5 miles and then turn right on Cape Henlopen Dr. for 1.2 miles. Turn left onto E. Cape Shores Dr. for 0.2 miles.

18. Nature of Activity (Description of project, include all features)

The proposed project involves the renourishment of a severely eroded beach (Cape Shores) located on the Delaware Bay via truck-fill method. Approximately 31,500 cubic yards of sand material from an inland borrow source will be used to restore 2,915 linear feet of beach at Cape Shores. The orientation of the renourishment project is from west to east extending from approximately 38.7825°N, 75.1144°W (westernmost location) to 38.7854°N, 75.1043°W (easternmost location).

19. Project Purpose (Describe the reason or purpose of the project, see instructions)

The purpose of the project is to renourish a severely eroded beach (Cape Shores) located on the Delaware Bay. The fill is designed to provide erosion and storm damage protection to public streets, utilities, and private and commercial structures landward of the coastline, and restore a section of shoreline used for public recreation.

USE BLOCKS 20-23 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. Reason(s) for Discharge

Beach renourishment.

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards:

Type	Type	Type
Amount in Cubic Yards	Amount in Cubic Yards	Amount in Cubic Yards
31,500		

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions)

Acres
or
Linear Feet 2,915

23. Description of Avoidance, Minimization, and Compensation (see instructions)

Impacts to water quality will be minimal based on the method of construction.

24. Is Any Portion of the Work Already Complete? Yes No IF YES, DESCRIBE THE COMPLETED WORK

25. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (if more than can be entered here, please attach a supplemental list).

a. Address- Refer to the attached list.

City - State - Zip -

b. Address-

City - State - Zip -

c. Address-

City - State - Zip -

d. Address-

City - State - Zip -

e. Address-

City - State - Zip -

26. List of Other Certificates or Approvals/Denials received from other Federal, State, or Local Agencies for Work Described in This Application.

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
DNREC	Subaqueous Permit		Concurrent	Pending	
DNREC	DCMP Consistency		Concurrent	Pending	

* Would include but is not restricted to zoning, building, and flood plain permits

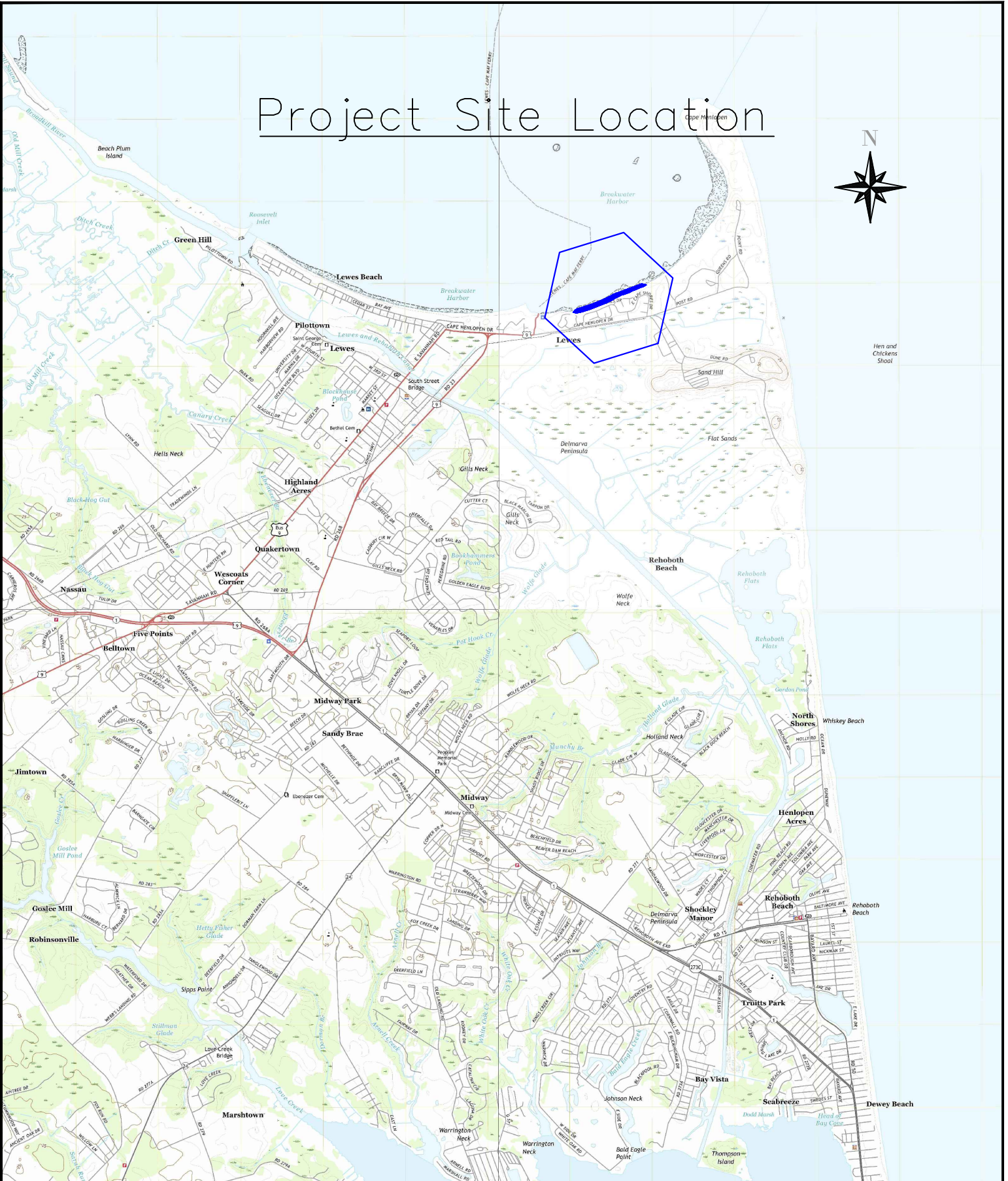
27. Application is hereby made for permit or permits to authorize the work described in this application. I certify that this information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

Jessie E. Erion Cape Shoals HOA
Jessie E. Erion SIGNATURE OF APPLICANT 8-11-2022 DATE *Terry L. Deputy* SIGNATURE OF AGENT 8/12/22 DATE

The Application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

Project Site Location



Hen and Chickens Shoal

Scale: 1" = 5000'	Date: 04/07/22
Designed by: N/A	
Drawn by: J. Faries, P.E.	
Checked by: A. Norton	
Sheet No. 1 of 4	

Cape Shores Truck Fill Permit Plans

COASTAL
SUSSEX COUNTY, DELAWARE

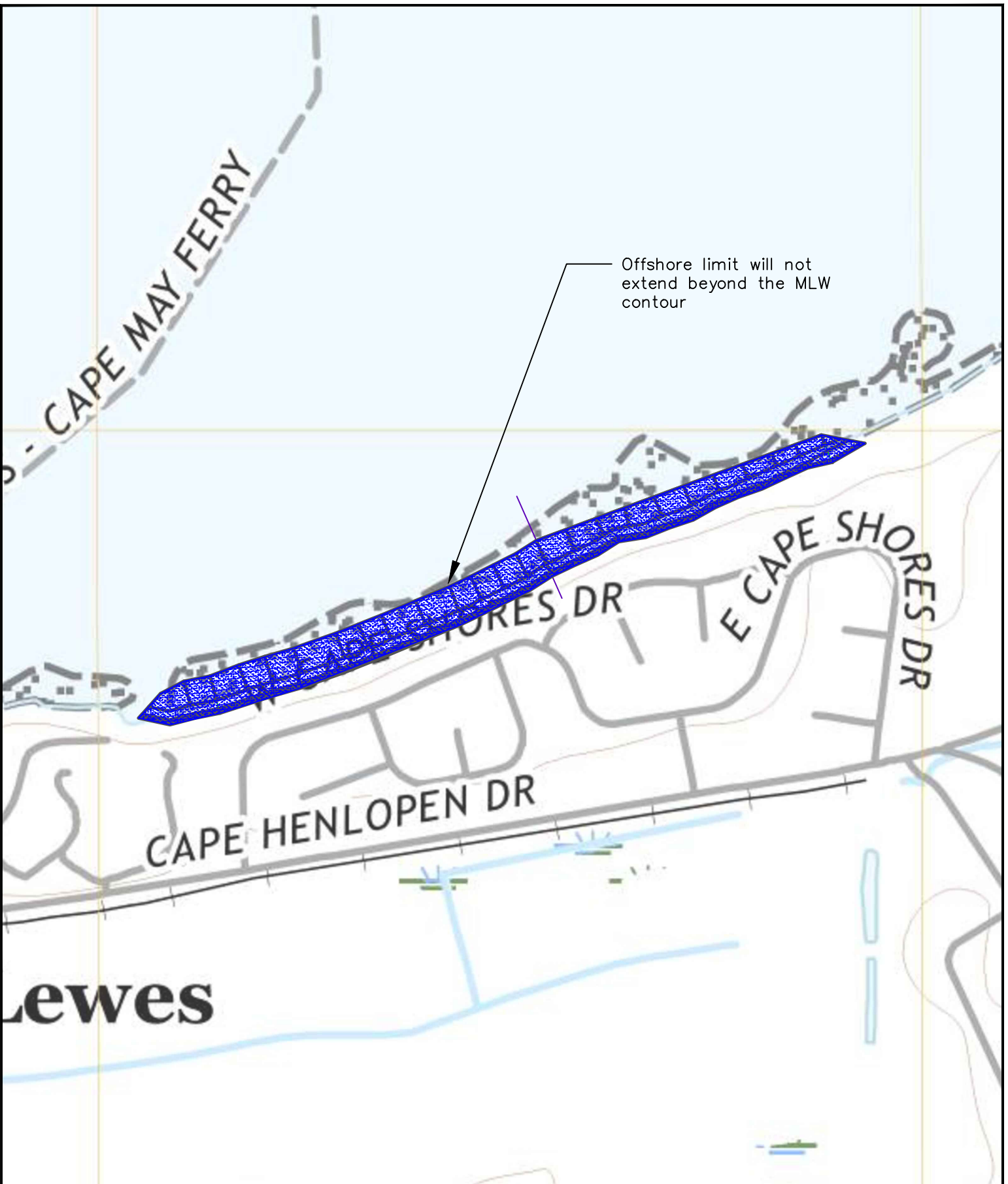


DELAWARE DEPARTMENT OF
NATURAL RESOURCES AND
ENVIRONMENTAL CONTROL

Division of Watershed Stewardship
Shoreline and Waterway Section

Dover Office
285 Beiser Blvd.
Dover DE, 19904
Phone: (302) 739 - 9921

Lewes Office
901 Pilottown Rd
Lewes DE, 19958
Phone: (302) 855 - 7290



Scale: 1" = 500'	Date: 04/07/22
Designed by: Others	
Drawn by: J. Faries, P.E.	
Checked by: A. Norton	
Sheet No. 2 of 4	

**Cape Shores Truck Fill
Permit Plans**

 COASTAL
 SUSSEX COUNTY, DELAWARE

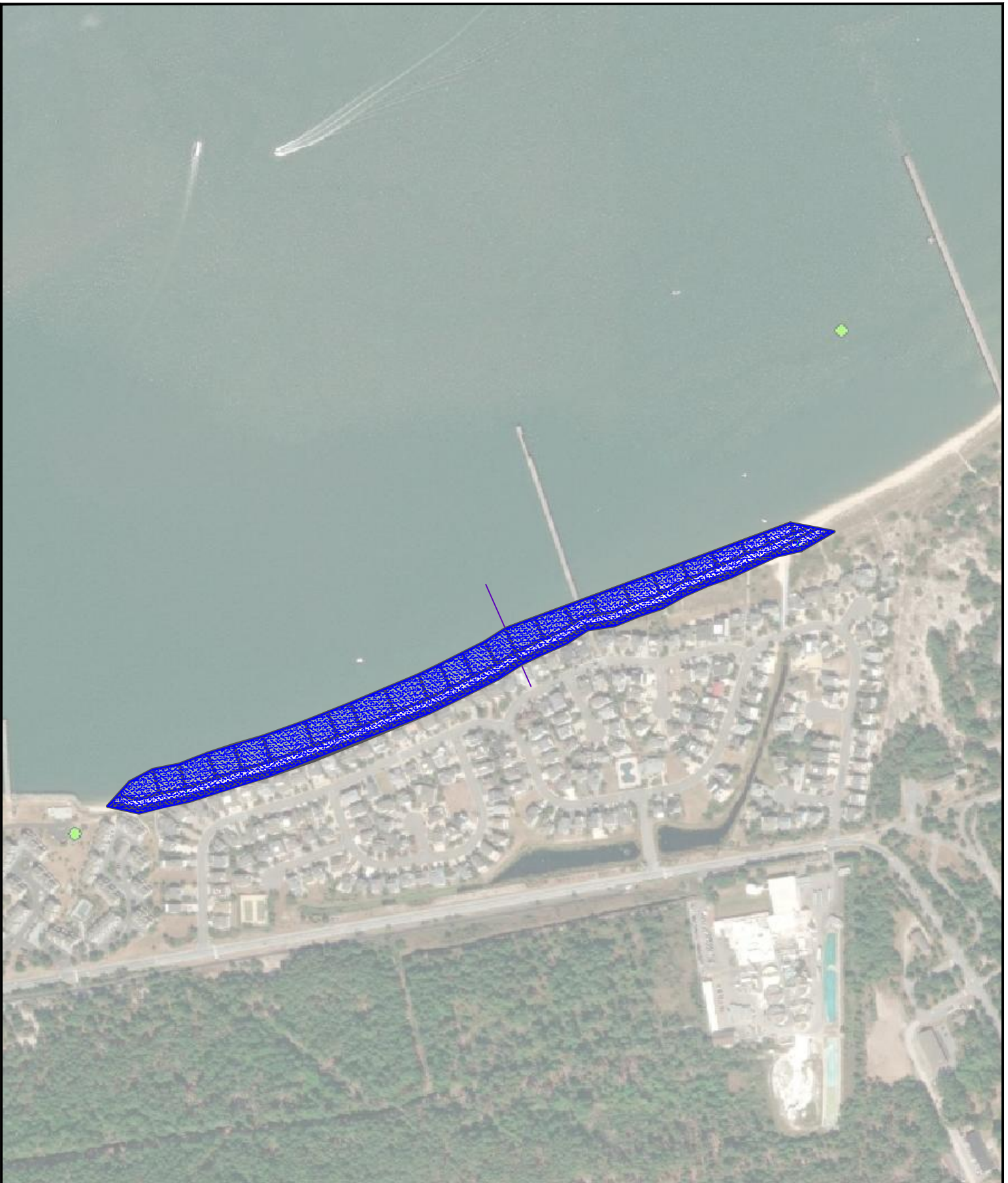


DELAWARE DEPARTMENT OF
**NATURAL RESOURCES AND
 ENVIRONMENTAL CONTROL**

Division of Watershed Stewardship
 Shoreline and Waterway Section

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 285 Beiser Blvd.
 Dover DE, 19904
 Phone: (302) 739 - 9921

Lewes Office
 901 Pilottown Rd
 Lewes DE, 19958
 Phone: (302) 855 - 7290



Scale: 1" = 500'	Date: 04/07/22
Designed by: Others	
Drawn by: J. Faries, P.E.	
Checked by: A. Norton	
Sheet No. 3 of 4	

Cape Shores Truck Fill Permit Plans

COASTAL
SUSSEX COUNTY, DELAWARE



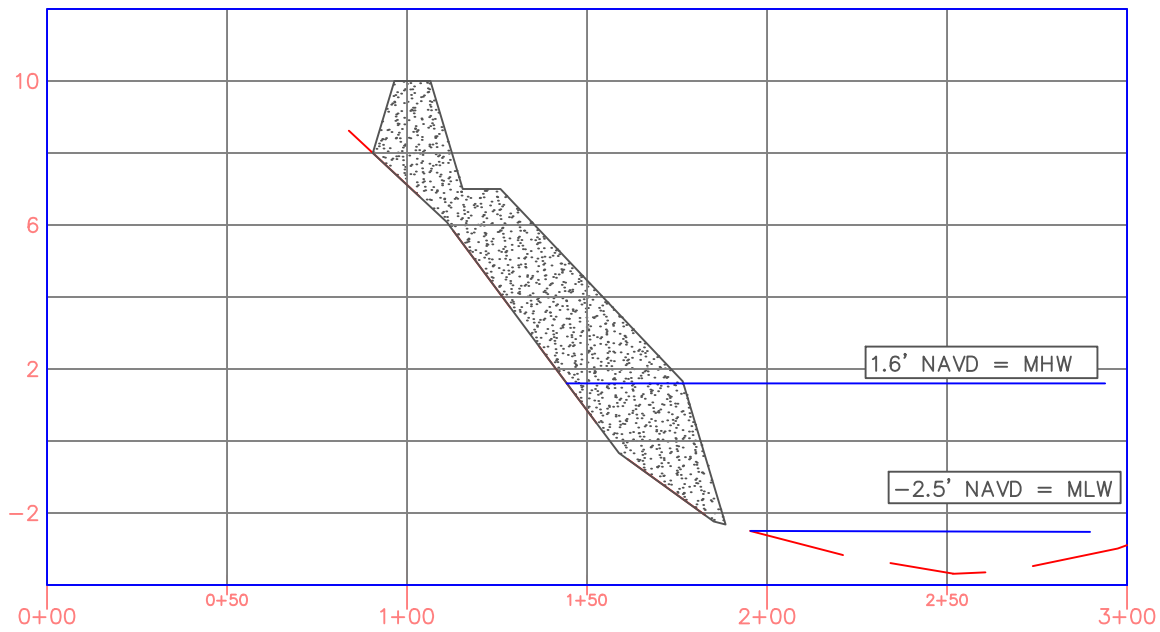
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Lewes DE, 19958
Phone: (302) 855 - 7290

CS - LRP21+90



SCALE: H: 1" = 50'
V: 1" = 5'

Scale: As Shown Date: 04/07/22

Designed by: Others

Drawn by: J. Faries, P.E.

Checked by: A. Norton

Sheet No. 4 of 4

Cape Shores Truck Fill
Permit Plans

COASTAL
SUSSEX COUNTY, DELAWARE



DELAWARE DEPARTMENT OF
NATURAL RESOURCES AND
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ENVIRONMENTAL QUESTIONNAIRE
FOR CORPS OF ENGINEERS PERMIT APPLICATIONS
Philadelphia District, Corps of Engineers
Philadelphia, Pennsylvania 19107
CENAP-OP-R

INTRODUCTION AND INSTRUCTIONS

The District Engineer is required by law to assess the initial, cumulative, and long-term effects of any proposed permit on all aspects of the environment.

To speed the analysis of the probable impact of the proposed work, each applicant is required to submit appropriate environmental data as part of a permit application. We ask that you provide a thorough description of your proposed project and answer each question as it applies to the work and the results of that work. Complete and accurate answers will prevent unnecessary delays in processing your permit application

Parts I and II will be filled out by all applicants. Part I is self-explanatory. In Part II, the Environmental Impact Checklist, you should indicate the impacts of your project on all aspects of the environment that are listed. Use the space under "Qualifying Remarks" to indicate the specific impacts that your project will have. This may include types of plants or animals affected, specific adverse, beneficial, or mitigative effects, changes to existing conditions, etc. Although space for answers has been provided, you may wish to supply additional information on attached pages. If you do not anticipate an impact on a certain item, simply place a check in the "No" column.

Part III will be filled out by all applicants applying for a permit to perform dredging.

Part IV will be filled out by all applicants applying for a permit to perform filling operations. This includes activities such as filling behind bulkheads.

Refer any questions you may have concerning this supplemental form to the Regulatory Branch at (215) 656-6728.

PART I

I. PROJECT DESCRIPTION:

- A. General Site Location: Accurately locate the project site with respect to State, county, or other subdivision, and in relation to streams and rivers.

The project is located in Lewes, DE at Cape Shores on the Delaware Bay west of Cape Henlopen.

- B. Specific Site Locations: Completely locate the project site with respect to cove, creek, property owner, plot number, etc.

See attached plans for details on the exact location.

- C. Description of Proposed Action: Carefully describe the action proposed, including the method of construction, equipment, and materials to be used. Details in your description are important. Attach additional sheets if necessary.

The project is beach renourishment at Cape Shores where sand will be hauled by truck from an inland borrow source. Approximately 31,500 cubic yards of sand will be placed on 2,915 linear feet of beach using the appropriate equipment.

- D. Purpose of Proposed Action: Define the purpose of the proposed structure or work. For example, the purpose of bulkheading may be to stabilize an eroding bank; whereas, the purpose for a pier may be for the mooring of a private boat, for access to a public or private facility, for a marina, or for another purpose.

The purpose of the projects is to renourish an eroding beach at Cape Shores located on the Delaware Bay. The renourished beach will increase protection to the inland communities from the effects of storm damage and erosion.

- E. Submit color photographs of the site, with explanations of the views shown (prints only). Photographs help us to better understand your project. The more photographs you provide, the easier it is to understand and process your application.

See attached photographs with views of the placement area.

PART II – ENVIRONMENTAL IMPACT CHECKLIST

ENVIRONMENTAL IMPACT	YES	NO	QUALIFYING REMARKS
A. Physical			
1. Topography	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Will be placing sand fill above MLW.
2. Geological Elements and Leaching	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Air	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Transportation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Handling of Hazardous Materials	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Spoil Disposal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Sewage and Solid Wastes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Water Resources			
a. Water Quality	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Salinity and water quality are similar.
b. Hydrography, Circulation, Littoral Drift.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Placed sand fill will be suspended and transported due to currents and waves.
c. Ground Water	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
B. Biological			
1. Vegetation			
a. Terrestrial	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Aquatic	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Fish and Wildlife			
a. Mammals	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Birds	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Amphibians	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Reptiles	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. Fish	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f. Shellfish	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
g. Invertebrates	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Rare or Endangered Species	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

ENVIRONMENTAL IMPACT	YES	NO	QUALIFYING REMARKS
C. Cultural			
1. Land Use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Will allow the public to continue using the Delaware Bay beaches for recreational purposes and protect inland communities from storm damage.
2. Population Density and Trends	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Regional Development	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Historic Places	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Archaeological Sites	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Aesthetics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Will improve the beach for coastal recreation purposes.
7. Utilities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Transportation Systems	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Recreation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Will improve the beach for coastal recreation purposes.
10. Public Health	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
D. Other Factors			
1. Secondary Effects	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Controversiality	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Is significant dredging involved?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Is significant filling involved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Will be placing 31,500 cubic yards of sand along 2,915 linear feet of shoreline.

Part III

Considerations of a Dredging Proposal:

- A. Describe characteristics and locations of the proposed dredged material disposal site. Provide photographs.

- B. Is there a comprehensive plan for disposal sites that takes into account the accumulative effect over time and the decreasing amount of suitable sites for disposal?

- C. Describe the present land use of the disposal site.

- D. Describe characteristics of the material to be disposed, including:
 - 1. Physical source of material (i.e. sand, silt, clay, etc.) Give percentages of the various fractions if available.

 - 2. Chemical composition of material: Many areas, especially marinas, highly industrialized areas, etc., have sediments with high concentrations of pollutants (chemicals, organic material, etc.). These materials may be re-suspended or reintroduced into the water and result in serious environmental damage. If your proposed dredging is in an area such as described above, a chemical analysis of the material to be dredged should be provided.

 - 3. Dewatering properties of the material to be disposed.

 - 4. Compactability of material and settling rates of material to be disposed.

 - 5. Dredging and disposal schedule to insure that operations do not degrade water quality during times of anadromous fish migration.

- E. When the project involves land disposal, discuss the following:
 - 1. Method of disposal to be utilized, i.e., pipeline discharge, barge, hopper (underway or stationary).

 - 2. Describe method of dredged material containment (i.e. embankment, behind bulkhead, etc.)

3. What type of leachates will be produced from the spoil material and what is planned for protection of the groundwater?
 4. Methods to insure that spoil water does not adversely affect water quality, both during construction and after completion of the project.
 5. Provisions for monitoring during discharge: water quality, sediment transport, and precautions to prevent “short-circuiting” dumping.
- F. Consider and discuss the following for water disposal:
1. Describe methods to be used for water disposal, including volumes and site selection.
 2. Describe the existing water characteristics at the site, including chemical analysis for water quality.
- G. Discuss the frequency and amount of maintenance dredging which will be required; discuss the resulting impacts.
- H. Alternatives.
1. Discuss all alternatives to the project, including the “no action” alternative.
 2. Discuss alternative types and methods of dredging and disposal, such as pipeline discharge, barging, or hopper method.
 3. Discuss alternatives to dredging.
 4. Discuss alternative areas of sites for spoil disposal.
 5. Discuss impact of port docking patterns upon the demand for dredging. Can alternative patterns reduce the amount of dredging required to support port operations?
 6. Support alternative means of construction that would prevent or minimize water quality degradation using EPA standards for guidance.
 7. State in detail impacts resulting in alternative locations for the proposed project.

Part IV

CONSIDERATIONS OF A FILLING PROPOSAL:

- A. Describe in detail the existing characteristics of the area proposed for filling (i.e. aquatic area, marsh, mudflat, swamp, etc.). In your description, be sure to include the types of vegetation present and the types of animals that use the area. Provide photographs.
The existing area is a recreational beach on the Delaware Bay. No vegetation is present within the area proposed for filling. Migratory shorebirds are common along the Delaware Bay.
- B. Give the following information in regard to the project size:
1. Total area to be filled.
9.77 acres
 2. Size of underwater area to be filled.
0 acres
 3. Area of intertidal zone to be filled.
3.0 acres
 4. Area of wetlands to be filled.
0 acres
 5. Proposed height of fill.
+10 feet NAVD88
 6. Volume of material that will be used in filling.
31,500 cubic yards
- C. Describe in detail the material to be used as fill including as follows:
1. Type of fill to be used (sand, stone, rubble, etc.). If the material is a composite (i.e., rubble), list the types of materials it will contain.
100% Sand- Median Grain Size (d50):0.3mm to 1.18 mm, Max. material retained on #4 sieve:3%, Max material retained on #200 sieve 3%, Dry Munsell Color Hue: 2.5Y,5Y, or 10YR, Value/Chroma 6/1, 7/1, 7/3, 8/1, 8/2, 8/3
 2. Give the specific location of the source of this material.
Upland borrow source. Vendor location will be provided prior to nourishment event
 3. What types of leachates will be produced from the fill material and what is planned for protection of surface and groundwater?
No leachates will be produced from sand placement for beach renourishment.
- D. Carefully describe the method of fill, including the following:
1. Method of fill placement, including equipment used in deposition and grading.
The fill will be hauled to the project location by truck and placed to a beach profile template.
 2. Method of stabilization of banks from erosion, sloughing, wave action, boat wakes, etc.
None.
 3. Method of stabilization of the surface of the fill.
None.

4. Length of time needed for completion of the project. State if filling will be continuous, intermittent, etc.

Placement of sand fill is expected to take 1 - 2 months.

5. Method of controlling turbidity when filling an underwater area.

None, as no sand fill will be placed below MLW.

E. Purpose of the Project:

1. What is the intended use of the filled area?

Beach renourishment to enhance coastal recreation and increase protection from storm damage.

2. What structures, if any, will be constructed on the fill?

None.

3. What benefits would you gain from the proposed fill?

Increased protection from storm damage and enhanced public recreation.

F. Alternatives

1. Discuss the "no action" alternative and how this would affect your present and future plans for the development of the area.

No action would result in an increased risk of storm damage to local inland communities.

2. Discuss alternative locations for the proposed fill.

No alternative locations for the sand fill placement were evaluated.

3. Discuss the use of elevated structures (i.e. causeways, elevated platforms, etc.) in place of the proposed fill.

None.

4. Discuss any other alternatives you have considered prior to formulating the presently submitted proposal.

A "no action" alternative was considered, however this would result in increased risk to the inland communities due to storm damage and erosion.

**NOAA Fisheries Greater Atlantic Regional Fisheries Office
Essential Fish Habitat (EFH) Assessment & Fish and Wildlife
Coordination Act (FWCA) Consultation Worksheet
August 2021 rev.**

Authorities

The Magnuson Stevens Fishery Conservation and Management Act (MSA) requires federal agencies to consult with NOAA Fisheries on any action or proposed action authorized, funded, or undertaken by such agency that may adversely affect essential fish habitat (EFH) identified under the MSA. This process is guided by the requirements of our EFH regulation at 50 CFR 600.905, which mandates the preparation of EFH assessments and generally outlines each agency's obligations in the consultation process.

The Fish and Wildlife Coordination Act (FWCA) requires that all federal agencies consult with NOAA Fisheries when proposed actions might result in modifications to a natural stream or body of water. The FWCA also requires that federal agencies consider the effects that these projects would have on fish and wildlife and must also provide for improvement of these resources. Under the FWCA, we work to protect, conserve and enhance species and habitats for a wide range of aquatic resources such as shellfish, diadromous species, and other commercially and recreationally important species that are not federally managed and do not have designated EFH.

It is important to note that these consultations take place between NOAA Fisheries and federal action agencies. **As a result, EFH assessments, including this worksheet, must be provided to us by the federal agency, not by permit applicants or consultants.**

Use of the Worksheet

This worksheet can serve as an EFH assessment for **Abbreviated EFH Consultations**, and as a means to provide information on potential effects to other NOAA trust resources considered under the FWCA. An abbreviated consultation allows us to determine quickly whether, and to what degree, a federal action may adversely affect EFH. Abbreviated consultation procedures can be used when federal actions do not have the potential to cause substantial adverse effects on EFH and when adverse effects could be alleviated through minor modifications.

The intent of the EFH worksheet is to provide a guide for determining the information needed to fully assess the effects of a proposed action on EFH. In addition, the worksheet may be used as a tool to assist you in developing a more comprehensive EFH assessment for larger projects that may have more substantial adverse effects to EFH. However, for large, complex projects that have the potential for significant adverse effects, an **Expanded EFH Consultation** may be warranted and the use of this worksheet alone is not appropriate as your EFH assessment.

An **adverse effect** is any impact that reduces the quality and/or quantity of EFH. Adverse effects may include direct or indirect physical, chemical, or biological alterations of the waters or substrate and loss of, or injury to, benthic organisms, prey species and their habitat, and other ecosystem components. Adverse effects to EFH may result from actions occurring within EFH or outside of EFH and may include site-specific or habitat-wide impacts, including individual, cumulative, or synergistic consequences of actions.

Consultation under the MSA is not required if there is no adverse effect on EFH or if no EFH has been designated in the project area. However, because the definition of “adverse effect” is very broad, most in-water work will result in some level of adverse effect requiring consultation with us, even if the impact is temporary or the overall result of the project is habitat restoration or enhancement. It is important to remember that an adverse effect determination is a trigger to consult with us. It does not mean that a project cannot proceed as proposed, or that project modifications are necessary. An adverse effect determination under the EFH provisions of the MSA simply means that the effects of the proposed action on EFH must be evaluated to determine if there are ways to avoid, minimize, or offset adverse effects. Additional details on EFH consultations, tools, and resources, including [frequently asked questions](#) can be found on our [website](#).

Instructions

This worksheet should be used as your EFH assessment for **Abbreviated EFH Consultations** or as a guide to develop your EFH assessment. It is not appropriate to use this worksheet as your EFH assessment for large, complex projects, or those requiring an Expanded EFH Consultation.

When completed fully and with sufficient information to clearly describe the activities proposed, habitats affected, and project impacts, as well as the measures taken to avoid, minimize or offset any unavoidable adverse effects, this worksheet provides us with required components of an EFH assessment including:

1. A description of the proposed action.
2. An analysis of the potential adverse effects on EFH and the federally managed species.
3. The federal agency’s conclusions regarding the effects of the action on EFH.
4. Proposed mitigation, if applicable.

When completing this worksheet and submitting information to us, it is important to ensure that sufficient information is provided to clearly describe the proposed project and the activities proposed. At a minimum, this should include the public notice (if applicable) or project application and project plans showing:

- location map of the project site with area of impact.
- existing and proposed conditions.
- all in-water work and the location of all proposed structures and/or fill.
- all waters of the U.S. on the project site with mean low water (MLW), mean high water (MHW), high tide line (HTL), and water depths clearly marked.
- Habitat Areas of Particular Concern (HAPCs).
- sensitive habitats mapped, including special aquatic sites (submerged aquatic vegetation, saltmarsh, mudflats, riffles and pools, coral reefs, and sanctuaries and refuges), hard bottom or natural rocky habitat areas, and shellfish beds.
- site photographs, if available.

Your analysis of effects **should focus on impacts that reduce the quality and/or quantity of the habitat or result in conversion to a different habitat type** for all life stages of species with designated EFH within the action area. Simply stating that fish will move away or that the project

will only affect a small percentage of the overall population is not a sufficient analysis of the effects of an action on EFH. Also, since the intent of the EFH consultation is to evaluate the direct, indirect, individual and cumulative effects of a particular federal action on EFH and to identify options to avoid, minimize or offset the adverse effects of that action, is it not appropriate to conclude that an impact is minimal just because the area affected is a small percentage of the total area of EFH designated. The focus of the consultation is to reduce impacts resulting from the activities evaluated in the assessment. Similarly, a large area of distribution or range of the fish species is also not appropriate rationale for concluding the impacts of a particular project are minimal.

Use the information on the our [EFH consultation website](#) and [NOAA's EFH Mapper](#) to complete this worksheet. The mapper is a useful tool for viewing the spatial distribution of designated EFH and HAPCs. Because summer flounder HAPC (defined as: “ all native species of macroalgae, seagrasses, and freshwater and tidal macrophytes in any size bed, as well as loose aggregations, within adult and juvenile summer flounder EFH”) does not have region-wide mapping, local sources and on-site surveys may be needed to identify submerged aquatic vegetation beds within the project area. The full designations for each species may be viewed as PDF links provided for each species within the Mapper, or via our website links to the [New England Fishery Management Councils Omnibus Habitat Amendment 2](#) (Omnibus EFH Amendment), the [Mid-Atlantic Fishery Management Councils FMPs](#) (MAMFC - Fish Habitat), or the [Highly Migratory Species](#) website. Additional information on species specific life histories can be found in the EFH source documents accessible through the [Habitat and Ecosystem Services Division website](#). This information can be useful in evaluating the effects of a proposed action. Habitat and Ecosystem Services Division (HESD) staff have also developed a technical memorandum *Impacts to Marine Fisheries Habitat from Non-fishing Activities in the Northeastern United States*, [NOAA Technical Memorandum NMFS-NE-209](#) to assist in evaluating the effects of non-fishing activities on EFH. If you have questions, please contact the [HESD staff member](#) in your area to assist you.

Federal agencies or their non-federal designated lead agency should email the completed worksheet and necessary attachments to the HESD New England (ME, NH, MA, CT, RI) or Mid- Atlantic (NY, NJ, PA, DE, MD, VA) Branch Chief and the regional biologist listed on the [Contact Regional Office Staff section](#) on our [EFH consultation website](#) and listed below.

We will provide our EFH conservation recommendations under the MSA, and recommendations under the FWCA, as appropriate, within 30 days of receipt of a **complete** EFH assessment for an abbreviated consultation. Please ensure that the EFH worksheet is completed in full and includes detail to minimize delays in completing the consultation. If we are unable to assess potential impacts based on the information provided, we may request additional information necessary to assess the effects of the proposed action on our trust resources before we can begin a consultation. If the worksheet is not completely filled out, it may be returned to you for completion. **The EFH consultation and our response clock does not begin until we have sufficient information upon which to consult.**

If this worksheet is not used, you should include all the information required to complete this worksheet in your EFH assessment. The level of detail that you provide should be commensurate with the magnitude of impacts associated with the proposed project. You may need to prepare a more detailed EFH assessment for more substantial or complex projects to fully characterize the effects of the project and the avoidance and minimization of impacts to EFH. The format of the EFH worksheet may not be sufficient to incorporate the extent of detail required for large-scale projects, and a separate EFH assessment may be required.

Regardless of the format, you should include an analysis as outlined in this worksheet for an expanded EFH assessment, along with any additional necessary information including:

- the results of on-site inspections to evaluate habitat and site-specific effects.
- the views of recognized experts on habitat or the species that may be affected.
- a review of pertinent literature and related information.
- an analysis of alternatives that could avoid or minimize adverse effects on EFH.

For these larger scale projects, interagency coordination meetings should be scheduled to discuss the contents of the EFH consultation and the site-specific information that may be needed in order to initiate the consultation.

Please contact our Greater Atlantic Regional Fisheries Office, [Protected Resources Division](#) regarding potential impacts to marine mammals or threatened and endangered species and the appropriate consultation procedures.

HESD Contacts*

New England - ME, NH, MA, RI, CT

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Kaitlyn Shaw - ME, NH, MA

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Mid-Atlantic - NY, NJ, PA, MD, VA

Karen Greene, Branch Chief

Jessie Murray - NY, Northern NJ (Monmouth Co. and north)

Keith Hanson - NJ (Ocean Co. and south), DE and PA, Mid-Atlantic wind

Maggie Sager - NJ (Ocean Co. and south), DE and PA

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Ecosystem Management (Wind/Aquaculture)

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***Please check for the most current staffing list on our [contact us page](#) prior to submitting your assessment.**

EFH Assessment Worksheet rev. August 2021
Please read and follow all of the directions provided when filling out this form.

1. General Project Information

Date Submitted:

Project/Application Number:

Project Name:

Project Sponsor/Applicant:

Federal Action Agency (or state agency if the federal agency has provided written notice delegating the authority¹):

Fast-41: Yes No

Action Agency Contact Name:

Contact Phone: Contact Email:

Address, City/Town, State:

2. Project Description

²Latitude: Longitude:

Body of Water (e.g., HUC 6 name):

Project Purpose:

Project Description:

Anticipated Duration of In-Water Work including planned Start/End Dates and any seasonal restrictions proposed to be included in the schedule:

¹ A federal agency may designate a non-Federal representative to conduct an EFH consultation by giving written notice of such designation to NMFS. If a non-federal representative is used, the Federal action agency remains ultimately responsible for compliance with sections 305(b)(2) and 305(b)(4)(B) of the Magnuson-Stevens Act. ² Provide the decimal, or the degrees, minutes, seconds values for latitude and longitude using the World Geodetic System 1984 (WGS84) and negative degree values where applicable.

3. Site Description

EFH includes the biological, chemical, and physical components of the habitat. This includes the substrate and associated biological resources (e.g., benthic organisms, submerged aquatic vegetation, shellfish beds, salt marsh wetlands), the water column, and prey species.

- | | | |
|---|-----|----|
| Is the project in designated EFH ³ ? | Yes | No |
| Is the project in designated HAPC? | Yes | No |
| Does the project contain any Special Aquatic Sites ⁴ ? | Yes | No |
| Is this coordination under FWCA only? | Yes | No |

Total area of impact to EFH (indicate sq ft or acres):

Total area of impact to HAPC (indicate sq ft or acres):

Current range of water depths at MLW Salinity range (PPT): Water temperature range (°F):

³Use the tables in Sections 5 and 6 to list species within designated EFH or the type of designated HAPC present. See the worksheet instructions to find out where EFH and HAPC designations can be found. ⁴Special aquatic sites (SAS) are geographic areas, large or small, possessing special ecological characteristics of productivity, habitat, wildlife protection, or other important easily disrupted ecological values. These areas are generally recognized as significantly influencing or positively contributing to the general overall environmental health or vitality of the entire ecosystem of a region. They include sanctuaries and refuges, wetlands, mudflats, vegetated shallows, coral reefs, and riffle and pool complexes (40 CFR Subpart E). If the project area contains SAS (i.e. sanctuaries and refuges, wetlands, mudflats, vegetated shallows/SAV, coral reefs, and/or riffle and pool complexes, describe the SAS, species or habitat present, and area of impact.

4. Habitat Types

In the table below, select the location and type(s) for each habitat your project overlaps. For each habitat type selected, indicate the total area of expected impacts, then what portion of the total is expected to be temporary (less than 12 months) and what portion is expected to be permanent (habitat conversion), and if the portion of temporary impacts will be actively restored to pre- construction conditions by the project proponent or not. A project may overlap with multiple habitat types.

Habitat Location	Habitat Type	Total impacts (lf/ft ² /ft ³)	Temporary impacts (lf/ft ² /ft ³)	Permanent impacts (lf/ft ² /ft ³)	Restored to pre-existing conditions?*

*Restored to pre-existing conditions means that as part of the project, the temporary impacts will be actively restored, such as restoring the project elevations to pre-existing conditions and replanting. It does not include natural restoration or compensatory mitigation.

Submerged Aquatic Vegetation (SAV) Present?:

Yes: _____ No: _____

If the project area contains SAV, or has historically contained SAV, list SAV species and provide survey results including plans showing its location, years present and densities if available. Refer to Section 12 below to determine if local SAV mapping resources are available for your project area.

Sediment Characteristics:

The level of detail required is dependent on your project – e.g., a grain size analysis may be necessary for dredging. In addition, if the project area contains rocky/hard bottom habitat ⁶(pebble, cobble, boulder, bedrock outcrop/ledge) identified as Rocky (coral/rock), Substrate (cobble/gravel), or Substrate (rock) above, describe the composition of the habitat using the following table.

Substrate Type* (grain size)	Present at Site? (Y/N)	Approximate Percentage of Total Substrate on Site
Silt/Mud (<0.063mm)		
Sand (0.063-2mm)		
Rocky: Pebble/Gravel /Cobble(2-256mm)**		
Rocky: Boulder (256-4096mm)**		
Rocky: Coral		
Bedrock**		

⁶The type(s) of rocky habitat will help you determine if the area is cod HAPC.

* Grain sizes are based on Wentworth grain size classification scale for granules, pebbles, cobbles, and boulders.

** Sediment samples with a content of 10% or more of pebble-gravel-cobble and/or boulder in the top layer (6-12 inches) should be delineated and material with epifauna/macroalgae should be differentiated from bare pebble-gravel-cobble and boulder.

If no grain size analysis has been conducted, please provide a general description of the composition of the sediment. If available please attach images of the substrate.

Diadromous Fish (migratory or spawning habitat- identify species under Section 10 below):

Yes: _____ No: _____

5. EFH and HAPC Designations

Within the Greater Atlantic Region, EFH has been designated by the New England, Mid-Atlantic, and South Atlantic Fisheries Management Councils and NOAA Fisheries. Use the [EFH mapper](#) to determine if EFH may be present in the project area and enter all species and life stages that have designated EFH. Optionally, you may review the EFH text descriptions linked to each species in the EFH mapper and use them to determine if the described habitat is present at your project site. If the habitat characteristics described in the text descriptions do not exist at your site, you may be able to exclude some species or life stages from additional consideration. For example, the water depths at your site are shallower than those described in the text description for a particular species or life stage. We recommend this for larger projects to help you determine what your impacts are.

Species Present	EFH is designated/mapped for:				What is the source of the EFH information included?
	EFH: eggs	EFH: larvae	EFH: juvenile	EFH: adults/spawning adults	

6. Habitat Areas of Particular Concern (HAPCs)

HAPCs are subsets of EFH that are important for long-term productivity of federally managed species. HAPCs merit special consideration based their ecological function (current or historic), sensitivity to human-induced degradation, stresses from development, and/or rarity of the habitat. While many HAPC designations have geographic boundaries, there are also habitat specific HAPC designations for certain species, see note below. Use the [EFH mapper](#) to identify HAPCs within your project area. Select all that apply.

Summer flounder: SAV ⁷	Alvin & Atlantis Canyons
Sandbar shark	Baltimore Canyon
Sand Tiger Shark (Delaware Bay)	Bear Seamount
Sand Tiger Shark (Plymouth-Duxbury-Kingston Bay)	Heezen Canyon
Inshore 20m Juvenile Cod ⁸	Hudson Canyon
Great South Channel Juvenile Cod	Hydrographer Canyon
Northern Edge Juvenile Cod	Jeffreys & Stellwagen
Lydonia Canyon	Lydonia, Gilbert & Oceanographer Canyons
Norfolk Canyon (Mid-Atlantic)	Norfolk Canyon (New England)
Oceanographer Canyon	Retriever Seamount
Veatch Canyon (Mid-Atlantic)	Toms, Middle Toms & Hendrickson Canyons
Veatch Canyon (New England)	Washington Canyon
Cashes Ledge	Wilmington Canyon
Atlantic Salmon	

⁷ Summer flounder HAPC is defined as all native species of macroalgae, seagrasses, and freshwater and tidal macrophytes in any size bed, as well as loose aggregations, within adult and juvenile summer flounder EFH. In locations where native species have been eliminated from an area, then exotic species are included. Use local information to determine the locations of HAPC.

⁸ The purpose of this HAPC is to recognize the importance of inshore areas to juvenile Atlantic cod. The coastal areas of the Gulf of Maine and Southern New England contain structurally complex rocky-bottom habitat that supports a wide variety of emergent epifauna and benthic invertebrates. Although this habitat type is not rare in the coastal Gulf of Maine, it provides two key ecological functions for juvenile cod: protection from predation, and readily available prey. See [EFH mapper](#) for links to text descriptions for HAPCs.

7. Activity Details

Select all that apply	Project Type/Category
	Agriculture
	Aquaculture - <u>List species here:</u>
	Bank/shoreline stabilization (e.g., living shoreline, groin, breakwater, bulkhead)
	Beach renourishment
	Dredging/excavation
	Energy development/use e.g., hydropower, oil and gas, pipeline, transmission line, tidal or wave power, wind
	Fill
	Forestry
	Infrastructure/transportation (e.g., culvert construction, bridge repair, highway, port, railroad)
	Intake/outfall
	Military (e.g., acoustic testing, training exercises)
	Mining (e.g., sand, gravel)
	Overboard dredged material placement
	Piers, ramps, floats, and other structures
	Restoration or fish/wildlife enhancement (e.g., fish passage, wetlands, mitigation bank/ILF creation)
	Survey (e.g., geotechnical, geophysical, habitat, fisheries)
	Water quality (e.g., storm water drainage, NPDES, TMDL, wastewater, sediment remediation)
	Other:

8. Effects Evaluation

Select all that apply	Potential Stressors Caused by the Activity
	Underwater noise
	Water quality/turbidity/ contaminant release
	Vessel traffic/barge grounding
	Impingement/entrainment
	Prevent fish passage/spawning
	Benthic community disturbance
	Impacts to prey species

Select all that apply and if temporary ⁹ or permanent		Habitat alterations caused by the activity
Temp	Perm	
		Water depth change
		Tidal flow change
		Fill
		Habitat type conversion
		Other:
		Other:

⁹ Temporary in this instance means during construction. ¹⁰ Entrainment is the voluntary or involuntary movement of aquatic organisms from a water body into a surface diversion or through, under, or around screens and results in the loss of the organisms from the population. Impingement is the involuntary contact and entrapment of aquatic organisms on the surface of intake screens caused when the approach velocity exceeds the swimming capability of the organism.

Details - project impacts and mitigation

Briefly describe how the project would impact each of the habitat types selected above and the amount (i.e., acreage or sf) of each habitat impacted. Include temporary and permanent impact descriptions and direct and indirect impacts. For example, dredging has a direct impact on bottom sediments and associated benthic communities. The turbidity generated can result in a temporary impact to water quality which may have an indirect effect on some species and habitats such as winter flounder eggs, SAV or rocky habitats. The level of detail that you provide should be commensurate with the magnitude of impacts associated with the proposed project. Attach supplemental information if necessary.

What specific measures will be used to avoid and minimize impacts, including project design, turbidity controls, acoustic controls, and time of year restrictions? If impacts cannot be avoided or minimized, why not?

Is compensatory mitigation proposed? Yes No

If compensatory mitigation is not proposed, why not? If yes, describe plans for compensatory mitigation (e.g. permittee responsible, mitigation bank, in-lieu fee) and how this will offset impacts to EFH and other aquatic resources. Include a proposed compensatory mitigation and monitoring plan as applicable.

9. Effects of Climate Change

Effects of climate change should be included in the EFH assessment if the effects of climate change may amplify or exacerbate the adverse effects of the proposed action on EFH. Use the [Intergovernmental Panel on Climate Change \(IPCC\) Representative Concentration Pathways \(RCP\) 8.5/high greenhouse gas emission scenario \(IPCC 2014\)](#), at a minimum, to evaluate the future effects of climate change on the proposed projections. For sea level rise effects, use the intermediate-high and extreme scenario projections as defined in [Sweet et al. \(2017\)](#). For more information on climate change effects to species and habitats relative to NMFS trust resources, see [Guidance for Integrating Climate Change Information in Greater Atlantic Region Habitat Conservation Division Consultation Processes](#).

1. Could species or habitats be adversely affected by the proposed action due to projected changes in the climate? If yes, please describe how:
2. Is the expected lifespan of the action greater than 10 years? If yes, please describe project lifespan:
3. Is climate change currently affecting vulnerable species or habitats, and would the effects of a proposed action be amplified by climate change? If yes, please describe how:
4. Do the results of the assessment indicate the effects of the action on habitats and species will be amplified by climate change? If yes, please describe how:
5. Can adaptive management strategies (AMS) be integrated into the action to avoid or minimize adverse effects of the proposed action as a result of climate? If yes, please describe how:

10. Federal Agency Determination

Federal Action Agency's EFH determination (select one)	
	There is no adverse effect ⁷ on EFH or EFH is not designated at the project site. EFH Consultation is not required. This is a FWCA only request.
	The adverse effect ⁷ on EFH is not substantial. This means that the adverse effects are no more than minimal, temporary, or can be alleviated with minor project modifications or conservation recommendations. This is a request for an abbreviated EFH consultation.
	The adverse effect ⁷ on EFH is substantial. This is a request for an expanded EFH consultation. We will provide more detailed information, including an alternatives analysis and NEPA documents, if applicable.

⁷ An adverse effect is any impact that reduces the quality and/or quantity of EFH. Adverse effects may include direct or indirect physical, chemical, or biological alterations of the waters or substrate and loss of, or injury to, benthic organisms, prey species and their habitat, and other ecosystem components. Adverse effects to EFH may result from actions occurring within EFH or outside of EFH and may include site-specific or habitat-wide impacts, including individual, cumulative, or synergistic consequences of actions.

11. Fish and Wildlife Coordination Act

Under the FWCA, federal agencies are required to consult with us if actions that the authorize, fund, or undertake will result in modifications to a natural stream or body of water. Federal agencies are required to consider the effects these modifications may have on fish and wildlife resources, as well as provide for the improvement of those resources. Under this authority, we consider the effects of actions on NOAA-trust resources, such as anadromous fish, shellfish, crustaceans, or their habitats, that are not managed under a federal fisheries management plan. Some examples of other NOAA-trust resources are listed below. Some of these species, including diadromous fishes, serve as prey for a number of federally-managed species and are therefore considered a component of EFH pursuant to the MSA. We will be considering the effects of your project on these species and their habitats as part of the EFH/FWCA consultation process and may make recommendations to avoid, minimize or offset and adverse effects concurrently with our EFH conservation recommendations.

Please contact our Greater Atlantic Regional Fisheries Office, [Protected Resources Division](#) regarding potential impacts to marine mammals or species listed under the Endangered Species Act and the appropriate consultation procedures.

Fish and Wildlife Coordination Act Resources

Species known to occur at site (list others that may apply)	Describe habitat impact type (i.e., physical, chemical, or biological disruption of spawning and/or egg development habitat, juvenile nursery and/or adult feeding or migration habitat). Please note, impacts to federally listed species of fish, sea turtles, and marine mammals must be coordinated with the GARFO Protected Resources Division.
alewife	
American eel	
American shad	
Atlantic menhaden	
blue crab	
blue mussel	
blueback herring	
Eastern oyster	
horseshoe crab	
quahog	
soft-shell clams	
striped bass	
other species:	
other species:	
other species:	

12. Useful Links

[National Wetland Inventory Maps](#)

[EPA's National Estuary Program \(NEP\)](#)

[Northeast Regional Ocean Council \(NROC\) Data Portal](#)

[Mid-Atlantic Regional Council on the Ocean \(MARCO\) Data Portal](#)

Resources by State

Maine

[Maine Office of GIS Data Catalog](#)

[Town shellfish information including shellfish conservation area maps](#)

[State of Maine Shellfish Sanitation and Management](#)

[Eelgrass maps](#)

[Casco Bay Estuary Partnership](#)

[Maine GIS Stream Habitat Viewer](#)

New Hampshire

[NH Statewide GIS Clearinghouse, NH GRANIT](#)

[NH Coastal Viewer](#)

[State of NH Shellfish Program](#)

Massachusetts

[MA DMF Shellfish Sanitation and Management Program](#)

[MassGIS Data \(Including Eelgrass Maps\)](#)

[MA DMF Recommended TOY Restrictions Document Massachusetts](#)

[Bays National Estuary Program](#)

[Buzzards Bay National Estuary Program](#)

[Massachusetts Division of Marine Fisheries](#)

[Massachusetts Office of Coastal Zone Management](#)

Rhode Island

[RI Shellfish and Aquaculture](#)

[RI Shellfish Management Plan](#)

[RI Eelgrass Maps](#)

[Narragansett Bay Estuary Program](#)

[Rhode Island Division of Marine Fisheries](#)

[Rhode Island Coastal Resources Management Council](#)

Connecticut

[CT Bureau of Aquaculture](#)

[Natural Shellfish Beds in CT](#)

[Eelgrass Maps](#)

[Long Island Sound Study](#)

[CT GIS Resources](#)

[CT DEEP Office of Long Island Sound Programs and Fisheries](#)

[CT River Watershed Council](#)

New York

[Eelgrass Report](#)

[Peconic Estuary Program](#)

[NY/NJ Harbor Estuary Program](#)

[New York GIS Clearinghouse](#)

New Jersey

[Submerged Aquatic Vegetation Mapping](#)

[Barnegat Bay Partnership](#)

[NJ GeoWeb](#)

[NJ DEP Shellfish Maps](#)

Pennsylvania

[Delaware River Management Plan](#)

[PA DEP Coastal Resources Management Program](#)

[PA DEP GIS Mapping Tools](#)

Delaware

[Partnership for the Delaware Estuary](#)

[Center for Delaware Inland Bays](#)

[Delaware FirstMap](#)

Maryland

[Submerged Aquatic Vegetation Mapping](#)

[MERLIN \(Maryland's Environmental Resources and Land Information Network\)](#)

[Maryland Coastal Atlas](#)

[Maryland Coastal Bays Program](#)

Virginia

[VMRC Habitat Management Division](#)

[Submerged Aquatic Vegetation mapping](#)



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Chesapeake Bay Ecological Services Field Office
177 Admiral Cochrane Drive
Annapolis, MD 21401-7307

Phone: (410) 573-4599 Fax: (410) 266-9127

<http://www.fws.gov/chesapeakebay/>

<http://www.fws.gov/chesapeakebay/endsppweb/ProjectReview/Index.html>

In Reply Refer To:
Project Code: 2022-0039949
Project Name: Cape Shores Beach Renourishment

May 05, 2022

Subject: List of threatened and endangered species that may occur in your proposed project location 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>

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see <https://www.fws.gov/birds/policies-and-regulations.php>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see <https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php>.

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 Code 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
- USFWS National Wildlife Refuges and Fish Hatcheries
- Wetlands

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:

Chesapeake Bay Ecological Services Field Office

177 Admiral Cochrane Drive

Annapolis, MD 21401-7307

(410) 573-4599

Project Summary

Project Code: 2022-0039949

Event Code: None

Project Name: Cape Shores Beach Renourishment

Project Type: Beach nourishment

Project Description: Beach renourishment project at Cape Shores in Lewes, Delaware that involves the placement of 31,500 cubic yards of sand along 2,915 feet of beach.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@38.78396305,-75.1093392263073,14z>



Counties: Sussex County, Delaware

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. Note that 1 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, 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 <i>Calidris canutus rufa</i> There is proposed critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/1864	Threatened

Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: <ul style="list-style-type: none"> ▪ The monarch is a candidate species and not yet listed or proposed for listing. There are generally no section 7 requirements for candidate species (FAQ found here: https://www.fws.gov/savethemonarch/FAQ-Section7.html). Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

Critical habitats

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

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

Wetlands

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

WETLAND INFORMATION WAS NOT AVAILABLE WHEN THIS SPECIES LIST WAS GENERATED.
PLEASE VISIT [HTTPS://WWW.FWS.GOV/WETLANDS/DATA/MAPPER.HTML](https://www.fws.gov/wetlands/data/mapper.html) OR CONTACT THE FIELD OFFICE FOR FURTHER INFORMATION.

IPaC User Contact Information

Agency: State of Delaware
Name: Stanford Borrell
Address: 2780 Lighthouse Point East, Suite D
City: Baltimore
State: MD
Zip: 21224
Email: sborrell@moffattnichol.com
Phone: 4105005575

Lead Agency Contact Information

Lead Agency: Army Corps of Engineers





Buffer search results

Results 1 - 46 of 46

Parcel ID	Owner Name	Parcel Address	Last Sale	Price
335-5.00-100.00	PIETRO LLC	206 CAPE SHORES DR W	12/20/1995	1
335-5.00-101.00	KLASSMAN BARRY & SHIRLEY...	204 CAPE SHORES DR W	04/19/1996	1
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335-5.00-103.00	RUDIBAUGH JOHN W TTEE PR...	200 CAPE SHORES DR W	02/09/2021	
335-5.00-104.00	SWEENEY PATRICK JOHN & G...	130 CAPE SHORES DR W	03/08/1997	1
335-5.00-105.00	88 WEST CAPE SHORES DRIV...	128 CAPE SHORES DR W	11/21/2018	
335-5.00-106.00	BARNETT MARIE L TRUSTEE	126 CAPE SHORES DR W	05/30/2002	850000
335-5.00-107.00	FINA KATHLEEN F	124 CAPE SHORES DR W	07/07/2020	1800000
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335-5.00-111.00	FRIEDMAN MARTIN	116 CAPE SHORES DR W	07/14/2021	
335-5.00-112.00	MUHTASEB SAFA RAJAB	114 CAPE SHORES DR W	02/20/2015	1175000
335-5.00-113.00	B.J.A.C.K. PROPERTIES LLC	112 CAPE SHORES DR W	03/10/2021	
335-5.00-240.00	CAPE SHORES HOMEOWNERS A...	400 CAPE SHORES DR E	N/A	
335-5.00-5.00	PORT LEWES RESORTS	N/A	N/A	
335-5.00-70.00	DENENBERG BARRY S TTEE	7 BAY CT N	04/15/1999	0
335-5.00-71.00	HARRIS GREGORY D TRUSTEE	5 BAY CT N	07/23/1996	1
335-5.00-72.00	JULIAN DONNA C TTEE	3 BAY CT N	06/21/2019	
335-5.00-73.00	RAPP LINDA D TRUSTEE	1 BAY CT N	11/29/1995	1
335-5.00-74.00	FISCHER RICHARD S TRUSTEE	506 CAPE SHORES DR E	09/20/1999	150000
335-5.00-75.00	FISCHER LINDA M TRUSTEE	504 CAPE SHORES DR E	11/01/1993	1
335-5.00-76.00	MARGOLIS JAMES D TTEE	502 CAPE SHORES DR E	01/11/2022	
335-5.00-77.00	WILKINSON LEE ANN TRUSTEE	500 CAPE SHORES DR E	01/12/2005	1905000
335-5.00-78.00	HUNTLEY WILLIAM JAMES	130 BREAKWATER REAC...	12/02/2020	4850000
335-5.00-79.00	CLARK GLENN D JR	128 BREAKWATER REAC...	06/01/2017	2000000
335-5.00-80.00	PARKS HOWARD T TTEE REV ...	126 BREAKWATER REAC...	10/15/2018	4000000
335-5.00-81.00	IMPERIA LUIGI & LINDA	124 BREAKWATER REAC...	08/20/1993	1
335-5.00-82.00	EDE PATRICK A	122 BREAKWATER REAC...	05/01/2018	2725000
335-5.00-83.00	DENBO MARK B	120 BREAKWATER REAC...	02/08/2013	0
335-5.00-84.00	ZUIDEMA RICHARD W	118 BREAKWATER REAC...	12/11/2012	1250000
335-5.00-85.00	MATARESE HELEN M TRUSTEE	116 BREAKWATER REAC...	01/10/1997	1

335-5.00-86.00	ROBBINS RANDALL E	114 BREAKWATER REAC...	10/27/1993	1
335-5.00-87.00	112 BREAKWATER LLC	112 BREAKWATER REAC...	06/28/2019	2000000
335-5.00-88.00	FROG BEACH LLC	110 BREAKWATER REAC...	03/18/2022	0
335-5.00-89.00	BANNING JEFFREY E TTEE	108 BREAKWATER REAC...	07/23/2019	2500000
335-5.00-90.00	MOHR STEPHEN F	106 BREAKWATER REAC...	01/17/2017	1900000
335-5.00-91.00	CSUY MICHAEL L	104 BREAKWATER REAC...	03/14/2019	2150000
335-5.00-92.00	GENSBIGLER JOSEPH A TTEE	102 BREAKWATER REAC...	11/01/2005	2600000
335-5.00-93.00	BOYKIN JOHN P TTEE REV TR	100 BREAKWATER REAC...	06/24/2021	
335-5.00-94.00	COASTAL LANDINGS LLC	218 CAPE SHORES DR W	09/21/2021	
335-5.00-95.00	ROSSI THERESA W TTEE	216 CAPE SHORES DR W	10/13/2021	
335-5.00-96.00	DAVIS WILLIAM B SR TTEE	214 CAPE SHORES DR W	08/07/2020	2250000
335-5.00-97.00	SYAGE JOSEPH G	212 CAPE SHORES DR W	06/23/2017	2190000
335-5.00-98.00	WEIGAND JAMES R	210 CAPE SHORES DR W	12/13/2012	1300000
335-5.00-99.00	CARTER MELINDA L TTEE	208 CAPE SHORES DR W	11/07/1995	1

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335-5.00-105.00	88 WEST CAPE SHORES DRIV...	128 CAPE SHORES DR W	11/21/2018	
335-5.00-106.00	BARNETT MARIE L TRUSTEE	126 CAPE SHORES DR W	05/30/2002	850000
335-5.00-107.00	FINA KATHLEEN F	124 CAPE SHORES DR W	07/07/2020	1800000
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335-5.00-80.00	PARKS HOWARD T TTEE REV ...	126 BREAKWATER REAC...	10/15/2018	4000000
335-5.00-81.00	IMPERIA LUIGI & LINDA	124 BREAKWATER REAC...	08/20/1993	1
335-5.00-82.00	EDE PATRICK A	122 BREAKWATER REAC...	05/01/2018	2725000
335-5.00-83.00	DENBO MARK B	120 BREAKWATER REAC...	02/08/2013	0
335-5.00-84.00	ZUIDEMA RICHARD W	118 BREAKWATER REAC...	12/11/2012	1250000
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335-5.00-82.00	EDE PATRICK A	122 BREAKWATER REAC...	05/01/2018	2725000
335-5.00-83.00	DENBO MARK B	120 BREAKWATER REAC...	02/08/2013	0
335-5.00-84.00	ZUIDEMA RICHARD W	118 BREAKWATER REAC...	12/11/2012	1250000
335-5.00-85.00	MATARESE HELEN M TRUSTEE	116 BREAKWATER REAC...	01/10/1997	1