April 23, 2025

Maintenance Dredging Project
Permitting for Subaqueous Land Lease

Town of Henlopen Acres: Marina
104 Tidewaters
Rehoboth Beach, Delaware 19971
TMP#: 334-14.09-10.00

Dear DNREC Representative,

Envirotech Environmental Consulting, Inc. (EECI), is submitting the enclosed Wetlands and Subaqueous Lands Section (WSLS) Permit Application Form and Appendix R Maintenance Dredging. Additional information such as: Driving Directions, Deeds and Record Plats, State and Federal Review Letters, Site Photographs, Aerial Plan Sets and Cross Section View are included in the permit package.

The proposed project is located along the Lewes and Rehoboth Canal at 104 Tidewaters, Rehoboth Beach, Delaware 19971. The project purpose is to perform mechanical maintenance dredging of the manmade marina at the referenced location measuring (+/-50,000 ft^2) utilizing an excavator. The excavator will operate from a work barge, temporarily placed within the marina. The barge will be secured to the Marina's support pilings during dredging activity. The mechanical maintenance dredging will remove sediment to -4' below Mean Low Water Level (MLWL) in order to restore navigable access for recreational boating in the Henlopen Acres Marina. The severe elevation of accumulated sediment observed within the marina causes boats to run aground and inadequate docking conditions. The dredged material will be placed in the newly constructed dewatering chamber, positioned in the open field next to the marina. The dewatering chamber will be constructed out of geotextile fabric, straw bales, wooden stakes and riprap stone. Once the material settles and excess water is removed (via evaporation) from the dewatering chamber, the spoils will be placed in dump trucks for offsite disposal. The disposal site is designated as the Delaware Solid Waste Authority (DSWA) Jones Crossroads Landfill, located at 28560 Landfill Lane in Georgetown, DE 19947.

Envirotech Environmental Consulting, Inc. (EECI) conducted an on-site bathymetry survey of the Subject Area in June and November 2024 in order to quantify the volume of dredged spoils, totaling +/- 4,400 yd^3 of estimated spoils. All appropriate risk avoidance measures will be followed to allow practicable alternatives and consideration of impacts were necessary. The work authorized shall be completed in accordance with the terms and conditions of the applicable United States Army Corps of Engineers Permit (Nationwide Permit #35-Maintinace Dredging of Existing Basins).

Furthermore, erosion and sediment control measures shall be implemented in accordance with the specifications and criteria in the current Delaware Erosion and Sediment Control Handbook to minimize entry and dispersal of sediment and other contaminants to surface waters.

17605 Nassau Commons Boulevard, Unit D ♦ Lewes ♦ DE 19958
Phone: 302.684.5201 ♦ Fax: 302.684.5204 ♦ www.envirotechecinc.com

Please contact me with any questions.
Best Regards,

Ld

Lyle de la Rosa
Environmental Project Manager
Envirotech Environmental Consulting, Inc.
Office Phone: 302.684.5201
Fax: 302.684.5204
Email: lyle@envirotechecinc.com

WETLANDS AND SUBAQUEOUS LANDS SECTION PERMIT APPLICATION FORM

For Subaqueous Lands, Wetlands, Marina and 401 Water Quality Certification Projects

State of Delaware
Department of Natural Resources and Environmental Control
Division of Water

Wetlands and Subaqueous Lands Section

APPLICATION FOR APPROVAL OF
SUBAQUEOUS LANDS, WETLANDS, MARINA
AND WATER QUALITY CERTIFICATION PROJECTS

Last Revised on: March 28, 2017

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY

Application Instructions:

1. Complete each section of this basic application and appropriate appendices as thoroughly and accurately as possible. Incomplete or inaccurate applications will be returned.

2. All applications must be accompanied by a scaled plan view and cross-section view plans that show the location and design details for the proposed project. Full construction plans must be submitted for major projects.

3. All applications must have an original signature page and proof of ownership or permitted land use agreement.

4. Submit an original and two (2) additional copies of the application (total of 3) with the appropriate application fee and public notice fee* (prepared in separate checks) to:

Department of Natural Resources and Environmental Control
Wetlands and Subaqueous Lands Section
89 Kings Highway
Dover, Delaware 19901

*Application and public notice fees are non-refundable regardless of the Permit decision or application status.

5. No construction may begin at the project site before written approval has been received from this office.

Helpful Information:

1. Tax Parcel Information:	New Castle County	(302) 395-5400
	Kent County	(302) 736-2010
	Sussex County	(302) 855-7878
2. Recorder of Deeds:	New Castle County	(302) 571-7550
	Kent County	(302) 744-2314
	Sussex County	(302) 855-7785

3. A separate application and/or approval may be required through the Army Corps of Engineers. Applicants are strongly encouraged to contact the Corps for a determination of their permitting requirements. For more information, contact the Philadelphia District Regulator of the Day at (215) 656-6728 or visit their website at: http://www.nap.usace.army.mil/Missions/Regulatory.aspx.

4. For questions about this application or the Wetlands and Subaqueous Lands Section, contact us at (302) 739-9943 or visit our website at:
http://www.dnrec.delaware.gov/wr/Services/Pages/WetlandsAndSubaqueousLands.aspx.
Office hours are Monday through Friday 8:00 AM to 4:30 PM, except on State Holidays.

APPLICANT'S REVIEW BEFORE MAILING

DID YOU COMPLETE THE FOLLOWING?

X	Yes	BASIC APPLICATION
X	Yes	SIGNATURE PAGE (Page 3)
X	Yes	APPLICABLE APPENDICES
X	Yes	SCALED PLAN VIEW
X	Yes	SCALED CROSS-SECTION OR ELEVATION VIEW PLANS
X	Yes	VICINITY MAP
X	Yes	COPY OF THE PROPERTY DEED & SURVEY
X	Yes	THREE (3) COMPLETE COPIES OF THE APPLICATION PACKET
X	Yes	APPROPRIATE APPLICATION FEE & PUBLIC NOTICE FEE (Separate checks made payable to the State of Delaware)

Submit 3 complete copies of the application packet to:

Department of Natural Resources and Environmental Control
Wetlands and Subaqueous Lands Section
89 Kings Highway
Dover, Delaware 19901

Before signing and mailing your application packet, please read the following:

The Department requests that the contractor or party who will perform the construction of your proposed project, if other than the applicant, sign the application signature page along with the applicant in the spaces provided. When the application is signed by the contractor as well as the applicant, the Department will issue the Permit to both parties. For Leases, the contractor will receive a separate construction authorization that will make them subject to all of the terms and conditions of the Lease relating to the construction

Section 1: Applicant Identification

1. Applicant's Name: Town of Henlopen Acres
Mailing Address: 104 Tidewaters, Rehoboth Beach, Delaware 19971
Telephone #: 302-227-6411
Fax #:
E-mail: Mayor@henlopenacres.com

2. Consultant's Name: Todd Fritchman
Mailing Address: 17605 Nassau Commons Boulevard Unit D, Lewes Delaware 19958
Company Name: Envirotech Environmental Consulting Inc.
Telephone #: 302-684-5201
Fax #: 302-684-5201
E-mail: lyle@envirotechecinc.com

3. Contractor's Name:
Mailing Address:
Company Name:
Telephone #:
Fax #:
E-mail:

Section 2: Project Description

4. Check those that apply:
☒ New Project/addition to existing project? ☐ Repair/Replace existing structure? (If checked, must answer #16)

5. Project Purpose (attach additional sheets as necessary):
Project Description and Details Attached

6. Check each Appendix that is enclosed with this application:

	A. Boat Docking Facilities		G. Bulkheads		N. Preliminary Marina Checklist
	B. Boat Ramps		H. Fill		O. Marinas
	C. Road Crossings		I. Rip-Rap Sills and Revetments		P. Stormwater Management
	D. Channel Modifications/Dams		J. Vegetative Stabilization		Q. Ponds and Impoundments
	E. Utility Crossings		K. Jetties, Groins, Breakwaters	x	R. Maintenance Dredging
	F. Intake or Outfall Structures		M. Activities in State Wetlands		S. New Dredging

Section 3: Project Location

7. Project Site Address: 104 Tidewaters, Rehoboth Beach, Delaware 19971
County: ☐ N.C. ☐ Kent ☒ Sussex
Site owner name (if different from applicant):
Address of site owner:

8. Driving Directions: Driving Directions Attached
(Attach a vicinity map identifying road names and the project location)

9. Tax Parcel ID Number: 334-14.09-10.00
Subdivision Name: Henlopen Acres

WSLS Use Only: **Permit #s:** _____ _____ _____ _____

Type **SP** ☐ **SL** ☐ **SU** ☐ **WE** ☐ **WQ** ☐ **LA** ☐ **SA** ☐ **MP** ☐ **WA** ☐

Corps Permit: SPGP 18 ☐ **20** ☐ **Nationwide Permit #:** _____ **Individual Permit #**_____
Received Date: _____ **Project Scientist:** _____
Fee Received? Yes ☐ **No** ☐ **Amt: $**_____ **Receipt #:** _____
Public Notice #: _____ **Public Notice Dates: ON** _____ **OFF** _____

Section 3: Project Location (Continued)

10. Name of waterbody at Project Location: Lewes Rehoboth Canal waterbody is a tributary to: Rehoboth & Delaware Bay

11. Is the waterbody: x Tidal ☐ Non-tidal Waterbody width at mean low or ordinary high water +/- 105 ft

12. Is the project: ☐ On public subaqueous lands? X On private subaqueous lands?*
☐ In State-regulated wetlands? X In Federally-regulated wetlands?

*If the project is on private subaqueous lands, provide the name of the subaqueous lands owner:
Henlopen Acres HOA
(Written permission from the private subaqueous lands owner must be included with this application)

13. Present Zoning: ☐ Agricultural x Residential ☐ Commercial ☐ Industrial ☐ Other

Section 4: Miscellaneous

14. A. List the names and complete mailing addresses of the immediately adjoining property owners on all sides of the project (attach additional sheets as necessary):
1. Richard & Norma Derrickson: 49 Tidewater Road, Rehoboth Beach, DE 19971 2. Michael Farr: 265 Mermaids Bight, Naples FL 34103

B. For wetlands and marina projects, list the names and complete mailing addresses of property owners within a 1,000 foot radius of the project (attach additional sheets as necessary):
Please Find the Attached List

15. Provide the names of DNREC and/or Army Corps of Engineers representatives whom you have discussed the project with:

A. Have you had a State Jurisdictional Determination performed on the property? ☐ Yes ☐ No
B. Has the project been reviewed in a monthly Joint Permit Processing Meeting? ☐ Yes ☐ No
*If yes, what was the date of the meeting? _____

16. Are there existing structures or fill at the project site in subaqueous lands? X Yes ☐ No
*If yes, provide the permit and/or lease number(s):
SP-1509/83

*If no, were structures and/or fill in place prior to 1969? ☐ Yes ☐ No

17. Have you applied for or obtained a Federal permit from the Army Corps of Engineers?
☐ No x Pending ☐ Issued ☐ Denied Date: _____

Type of Permit: NWP-35 Federal Permit or ID #: _____

18. Have you applied for permits from other Sections within DNREC?
x No ☐ Pending ☐ Issued ☐ Denied Date: _____ Permit or ID #: _____

Type of permit (circle all that apply): Septic Well NPDES Storm Water

Other: _____

Section 5: Signature Page

19. Agent Authorization:

If you choose to complete this section, all future correspondence to the Department may be signed by the duly authorized agent. In addition, the agent will become the primary point of contact for all correspondence from the Department.

I do not wish to authorize an agent to act on my behalf ☐

I wish to authorize an agent as indicated below ☐

I, Joni Reich, Mayor, hereby designate and authorize Todd Fritchman
(Name of Applicant) (Name of Agent)
to act on my behalf in the processing of this application and to furnish any additional information requested by the Department.

Authorized Agent's Name: Todd Fritchman Telephone #: (302) 684-5201
Mailing Address: 17605 Nassau Commons Blvd. Unit D. Fax #: (302) 684-5204
Lewes, DE 19958 E-mail: Todd@envirotechecinc.com

20. Agent's Signature:

I hereby certify that the information on this form and on the attached plans are true and accurate to the best of my knowledge. I further understand that the Department may request information in addition to that set forth herein if deemed necessary to appropriately consider this application.

Todd Fritchman 5/25/24
Agent's Signature Date

21. Applicant's Signature:

I hereby certify that the information on this form and on the attached plans are true and accurate to the best of my knowledge and that I am required to inform the Department of any changes or updates to the information provided in this application. I further understand that the Department may request information in addition to that set forth herein if deemed necessary to appropriately consider this application. I grant permission to authorized Department representatives to enter upon the premises for inspection purposes during working hours.

Joni Reich 4/24/2024
Applicant's Signature Date

Joni Reich, Mayor - Town of Henlopen Acres
Print Name

22. Contractor's Signature:

I hereby certify that the information on this form and on the attached plans are true and accurate to the best of my knowledge, and that I am required to inform the Department of any changes or updates to the information provided in this application. I further understand that the Department may request information in addition to that set forth herein if deemed necessary to appropriately consider this application.

Contractor's Name Date

Print Name

MAINTENANCE DREDGING OR EXCAVATING

- If dredged material is to be placed in a disposal site, a separate map showing the location of the disposal site should be attached. This drawing must indicate the proposed retention levees, weirs, spillways, and/or devices for retaining the materials.

- Bottom samples to determine heavy metals or other toxic materials must be taken and analyzed if deemed necessary by the DNREC staff. The responsibility, as well as the expense incurred for obtaining and analyzing these samples, must be borne by the applicant.

- If maintenance dredging is to be done, evidence of previous dredging must be provided. Any previously issued permit with drawings which indicates the date the dredging occurred, the area involved and dredging depth constitutes acceptable proof.

- Please make sure answers to all of the questions in this appendix correspond to information on the application drawings.

1. How many cubic yards of material will be MAINTENANCE DREDGED or excavated channelward of the:

   a. Tidal waters: mean high water line? _____0__ cu. yds.
      mean low water line? +/- 4,400_____ cu. yds.
   b. Non-tidal waters: ordinary high water line?_____ cu. yds.

Does this account for the total volume of proposed dredging for the project? _X_____Yes _____No
If there is new dredging associated with this project (dredging beyond previously authorized dimensions) please fill out appendix S for new dredging.

2. What will be the dimensions of the dredged or excavated area relative to mean low water (for tidal areas only) or ordinary water level (for non-tidal areas only)?
   _550'_ length _2.5'_ depth _70'__ base width _90'_ top width

3. What are average existing depths in area of proposed dredging? _+/- 1.5 - 2_____ft. (mlw/ohw)
   Include a survey of proposed and existing depths on application drawings.
   Please find Attached

4. What is the proposed dredging depth in relation to surrounding bathymetry? _-4 MLW___ft.(mlw/ohw)
   Indicate both proposed depths and surrounding depths on attached drawings.

5. By what method(s) (hydraulic, clamshell or other) will the dredging be done? If other, explain:
   Mechanical Dredging.

   Mechanical Dredging via long-reach land-based excavator (Clamshell)

6. What is proximity of the dredging project to the nearest creek bank or banks? +/- 5 ft.
   What are existing land uses along this bank(s)?

   The bank of the proposed dredging project is utilized for boat storage and docking along the bank of the marina and open parking space.

   Describe the existing shoreline along this bank (vegetation, rip-rap, bulkhead, etc.).

   The Shoreline's bank consists of boat docks that are backed by a bulkhead structure lined with rip-rap. Vegetation is observed above the OHW mark and is comprised of landscape grasses and shrubs.

7. Describe characteristics of the material to be disposed including:
   a. Physical nature of material (i.e. sand, silt, clay, etc.). Give percentages of various fractions if available.

      Silty Clay Loam Material: 20-27% Sand, 45-52% Silt, 28% Clay

   b. Chemical composition of material - Many areas have sediments with high concentration of pollutants (chemicals, organics etc.) which may be re-suspended or reintroduced into the water. For heavily industrialized sites, a chemical analysis of this material should be provided (if applicable).

      Please Find the Attached Marine Sediment Report

   c. What are the dewatering properties of material to be disposal of?

      Fair

8. How will the dredged or excavated material be transported to its disposal area?

   Dreged materials will be excavated from the project's associated dewatering chamber following the dewatering proccess and placed into dump trucks to be transported to the disposal site.

9. Land Disposal Areas.

   a. Describe dimensions, characteristics and exact locations of the proposed dredged material disposal site (provide photographs, directions to, and complete plans of disposal site).

      Please find the attached map with driving directions and disposal site aerial imagery.

   b. Describe method of dredged material containment (embarkment, behind bulkhead, etc.)

   c. What type of leachates will be produced by the spoil material and what is planned for the protection of groundwater? Spoils will be placed on geotextile fabric to prevent leaching.

   d. Disposal site coordinates 38.589566° latitude -75.441291° longitude

   e. What methods will be used to ensure that spoil water does not adversely affect water quality both during construction and after completion of the project?

      A dewatering chamber and (BMPs) will be utilized to prevent spoil water from leaching and adversly affecting water quality

   f. Describe present land use of the disposal site.

      Delaware Solid Waste Authority (DSWA) Landfill- 28560 Landfill Lane, Georgetown, DE 19947

10. Water Disposal Areas/ Beneficial Use Projects
    Describe methods to be used for water disposal including volumes and site selection, and containment (if applicable). Include Fill or Wetland Appendix if applicable.

    Water will be drained from dewatering chamber for reintroduction to the project area.

11. Describe the existing water characteristics at the site, including chemical analysis for water quality.

    Brackish Water, Salinity 8-32.8 ppt

12. Identify the dredging and disposal schedule to ensure that operations do not degrade water quality during times of anadromous fish migration.

    Dredging activities and dredged material disposal will be undertaken during the winter to avoid State/Federal regulated seasonal time restrictions and minimalize wildlife/anadromous fish disturbance.

13. Has an Erosion and Sediment Control Plan been approved by the designated plan approval agency for the project? An Erosion and Sediment Control Plan is required for any project disturbing more than 5,000 square feet of uplands. Final approved plans must be received by this office prior to permit issuance.

____ Yes ____ No __X__ Not required

Important time of year restriction information:

Please be advised that all dredging in the Inland Bays must be undertaken between September 1 and December 31 in order to protect summer and winter flounder and other aquatic species. Dredging in other Delaware waters may also be subject to certain time of year restrictions in order to protect fish and wildlife. Contact DNREC for more specific information regarding the restrictions that may apply within your project area.

Attachment A:

Property Deed & Survey

1881

BOOK 1084 PAGE 307

(NO. 40-B)

CORPORATE DEED-TYPEWRITER

Printed and Sold by Hugh A. George Co., Stationers, 830 Tatnall St., Wilmington, Del.

This Deed, Made this

21st day of July in the year of our LORD one thousand nine hundred and eighty-one

BETWEEN, REHOBOTH ART LEAGUE, INC., a Corporation of the State of Delaware, Henlopen Acres, Sussex County, Delaware

- AND -

THE TOWN OF HENLOPEN ACRES, a Municipal Corporation of the State of Delaware, Henlopen Acres, Sussex County, Delaware

PB 10490 09648 State of Delaware STATE TAX DEPT. • • • SUSSEX OCT-2'81 REALTY TRANSFER TAX ≈00.00

Witnesseth, *That the said party of the first part, for and in consideration of the sum of* ONE DOLLAR ($1.00)---------- *lawful money of the United States of America, the receipt whereof is hereby acknowledged, hereby grants and conveys unto the said party of the second part,*

ALL that certain tract, piece and parcel of land, situate, lying and being in The Town of Henlopen Acres, Lewes and Rehoboth Hundred, Sussex County, Delaware, and being more particularly described as follows: BEGINNING at a point in the Northern right of way line of Tidewaters, said point of beginning marking a corner for these lands and the Southeastern corner of Lot 14, Block H, as shown on the Plot of Henlopen Acres; thence from said beginning point, along and with the Northern right of way line of Tidewaters, North 42 degrees 27 minutes 30 seconds East a distance of 795.66 feet or such distance as is required to reach a point marking the Eastern limits of a Thirty Foot Drainage Easement and a corner for these lands and Lot 1 Block M in accordance with a subdivision survey prepared by Mann Associates and of record in the Office of the Recorder of Deeds, in and for Sussex County, in Book 23, Page 44; thence cutting a new line through Block Q along and with the Eastern limits of the Thirty Foot Drainage Easement and Lot 1 North 46 degrees 56 minutes 53 seconds West a distance of 93.00 feet to a point, said point marking the low water line of the Yacht Basin; thence along and with the low water mark line of the Yacht Basin, the bulkhead and dock and the railway in a Southwesterly, Southeasterly, Southwesterly, Northwesterly, Southwesterly and Northwesterly directions such distance as is required to reach a point, said point marking a corner for these lands and the Southerly right of way line of the Lewes and Rehoboth Canal; thence along and with the Southerly right of way line of the Lewes and Rehoboth Canal South 42 degrees 27 minutes 30 seconds West such distance as is required to reach a point, said point marking a corner for these lands and the Northeastern corner of Lot 14, Block H, as shown on the Plot of Henlopen Acres; thence along and with the division line between these lands and Lot 14, Block H, South 47 degrees 32 minutes 30 seconds East a distance of 166.10 feet, home to the place of beginning, be the contents thereof what they may, as surveyed by Mann-Talley, Inc., Registered Land Surveyors dated March 7, 1980.

TOGETHER with all the right, title and interest of Rehoboth Art League, Inc., in and to the following described land located in The Town of Henlopen Acres, Lewes and Rehoboth Hundred, Sussex County, Delaware, being more particularly described as follows: BEGINNING at a point, said point being the Northeastern corner of lands hereinbefore described and at the Northerly end of the Eastern limits of the Thirty Foot Drainage Easement and its point of intersection with the Yacht Basin; thence along and with the high water mark of the Northern boundary of Block Q North 41 degrees 14 minutes 44 seconds East a distance of 443.51 feet to a point, said point marking a corner of the lands of Rehoboth Art League and the Northwestern corner of Lot 1, Block R, as shown on the Plot of Henlopen Acres; thence along and with the Northern boundary line of Lot 1, Block R North, 63 degrees 58 minutes 40 seconds East a distance of 150 feet to a point, said point marking a corner for these lands and the corner for Lot 1, Block R, and Lot 2, Block R; thence North 26 degrees 01 minutes 20 seconds West a distance of 115 feet to a point, said point marking a corner for these lands and lands now or formerly of North Shores, Inc.; thence along and with the division line between these lands and lands now or formerly of North Shores, Inc., South 63 degrees 58 minutes 40 seconds West a distance of 328.29 feet to a point, said point marking a corner for these lands and the Southerly right of way line of Lewes and Rehoboth Canal; thence along and with the Southerly right of way line of the Lewes and Rehoboth Canal South 39 degrees 31 minutes 40 seconds West a distance of 265.10 feet to a point; thence with a curve to the right having a radius of 2,760 feet, an arc of 707.22 feet and a Delta Angle of 14 degrees 40 minutes 53 seconds such distance as is required to reach the existing dock; thence along and with the existing dock, the railway and the existing dock and bulkhead and the high water mark in a Southwesterly, Northeasterly, Southeasterly and Northeasterly directions and along the high water mark of the Yacht Basin such distance as is required to reach the point and place of beginning, be the contents thereof what they may, and surveyed by Mann-Talley, Inc., Registered Land Surveyors dated March 7, 1980, excepting therefrom a conveyance from Henlopen Acres, Inc. to William R. and Elizabeth B. Kahl by Deed dated 21st day of November, 1956 and of record in the Office of the Recorder of Deeds in and for Sussex County, Georgetown, Delaware, Deed Book 469, Page 143, consisting of a 15 foot strip at the Westerly end of Block Q.

BEING part of lands conveyed to the Rehoboth Art League, Inc., by Quitclaim Deed of Henlopen Acres, Inc., dated June 14, 1979, and recorded on July 17, 1979 in the office of the aforesaid in Deed Book 962, Page 21 and by Corrective Quitclaim Deed dated May 30, 1980 and recorded in the office of the aforesaid on June 18, 1980 in Deed Book 1011, Page 215.

In Witness Whereof, *The said* REHOBOTH ART LEAGUE, a Corporation of the State of Delaware *hath caused its name by* *its* *President to be hereunto set, and the common and corporate seal of the said corporation to be hereunto affixed, duly attested by its* *Secretary, the day and year first above written.*

Sealed and Delivered in the Presence of *BY:* Lucile K. Megee
President

William E. Wright

ATTEST: Anabel B. Evans
Secretary

PURCHASERS REPORT MADE
THIS 2 DAY OF Oct 1981
ASSESSMENT DIVISION OF SUSSEX COUNTY

State of Delaware,
SUSSEX **County,** } **ss.**

Be It Remembered, *That on this* 21st *day of* July *in the year of our LORD one thousand nine hundred and* eighty-one *personally came before me, a Notary Public for the State of Delaware.* Lucile K Megee *President of a corporation existing under the laws of the State of Delaware, party to this Indenture, known to me personally to be such, and acknowledged this Indenture to be his act and deed and the act and deed of said corporation, that the signature of the* *President thereto is in his own proper handwriting and the seal affixed is the common and corporate seal of said corporation, and that his act of sealing, executing, acknowledging and delivering said Indenture was duly authorized by a resolution of the Board of Directors of said corporation.*

GIVEN under my Hand and Seal of Office, the day and year aforesaid.

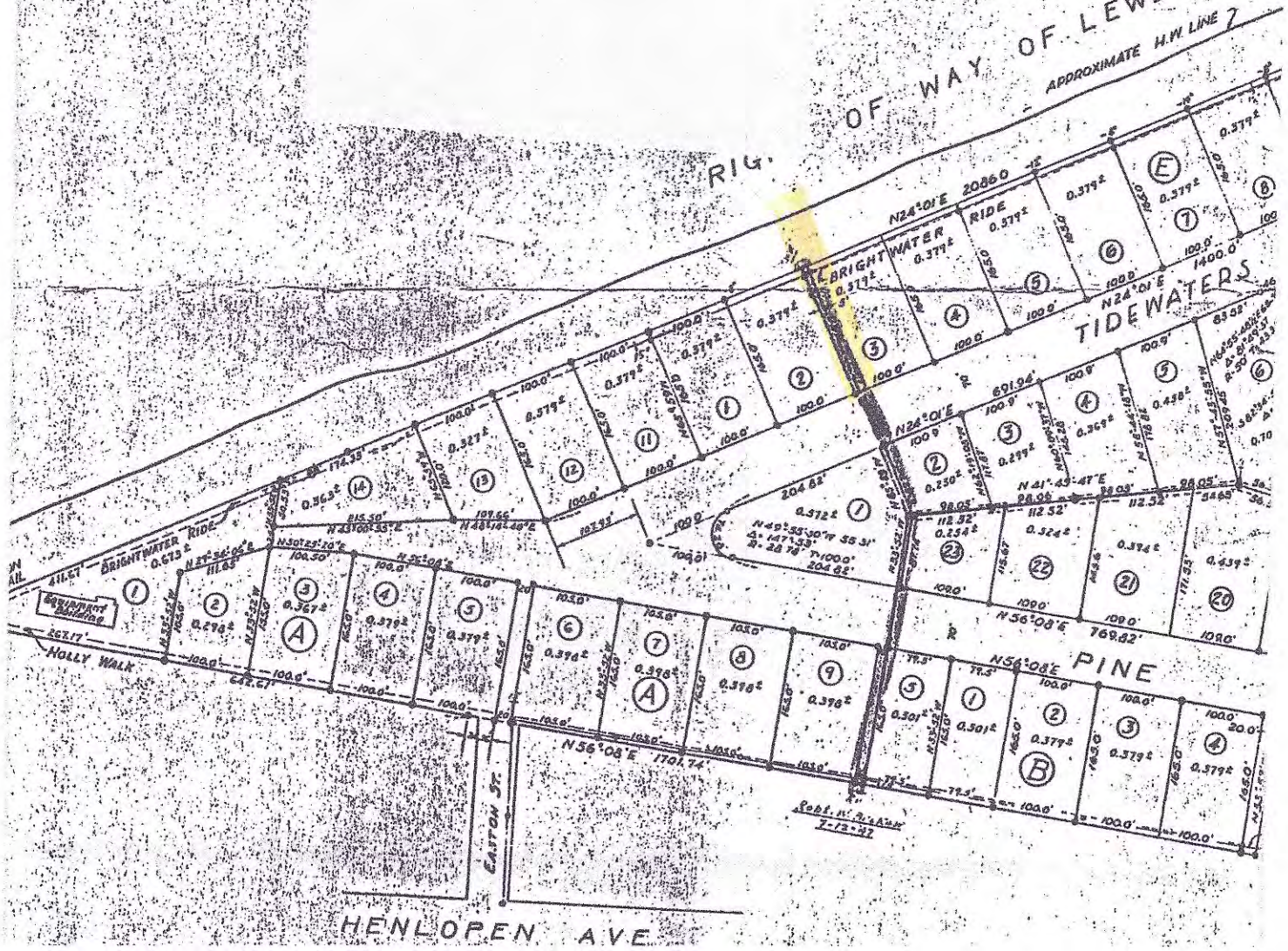
William E. Wright
Notary Public

WILLIAM WRIGHT
APPOINTED
SEP 2, 1980
TERM
NOTARY PUBLIC DELAWARE

RECEIVED
MARY LINN MCABE
OCT 1 3 33 PM '81
RECORDER OF DEEDS
SUSSEX COUNTY

#989
SP-207/04
Town of Henlopen Acres

989



SUPPLEMENTARY SURVEY MAP OF HENLOPEN ACRES

IN

LEWES & REHOBOTH HUNDRED

SUSSEX COUNTY, DELAWARE

W. S. CORKRAN - OWNER

SCALE 1" = 200'

APRIL 6, 1931

REVISION

AUGUST 1, 1947

NOV. 12, 1957

RECEIVED
NOV 17 2004
WET LANDS

problem areas
existing drains

NOTE

This map is filed as a supplement to "A Plat of Henlopen Acres in Lewes & Rehoboth Hundred, Sussex County, Delaware, adjoining Rehoboth Beach Delaware, Wilbur S. Corkran - owner. Scale - one inch equals two hundred feet. Dated June 16, 1930 and recorded at Georgetown, Delaware. It is filed for the purpose of defining & describing by courses & distances, the outline of the blocks, parcels, roads and reservations represented on said plat of Henlopen Acres."

LEGEND

●= Monument Set

VAN DEHARK & LYNCH, INC.
CIVIL ENGRS. & SURVEYORS
WILMINGTON, DELAWARE

VAN DEHARK & LYNCH, INC.
CIVIL ENGRS. & SURVEYORS
311 WEST 12TH STREET
WILMINGTON, DELAWARE

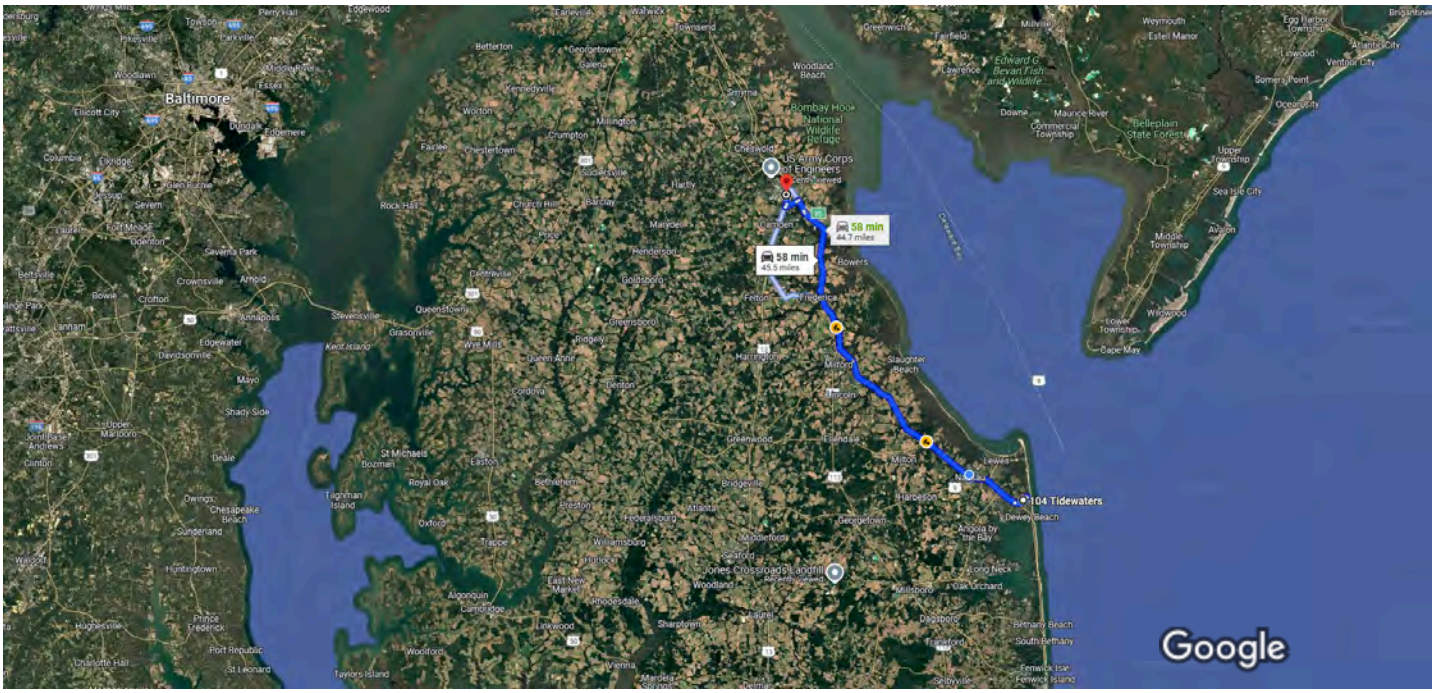
Attachment B:

Driving Directions

Google Maps

104 Tidewaters, Rehoboth Beach, DE 19971 Drive 45.5 miles, 58 min to DNREC State Street Commons, 100 W Water St, Dover, DE 19904

DNREC to Henlopen Acres



Imagery ©2025 Landsat / Copernicus, Data SIO, NOAA, U.S. Navy, NGA, GEBCO, Map data ©2025 , Map data ©2025 Google 5 mi

104 Tidewaters
Rehoboth Beach, DE 19971

Take DE-1A/Rd 15 to DE-1 N/Coastal Hwy

15 min (6.6 mi)

1. Head southwest toward Pine Reach Rd

187 ft

2. Turn right onto Pine Reach Rd

0.5 mi

3. Turn right onto Dodds Ln

328 ft

4. Continue onto 2nd St

266 ft

5. Turn right onto Columbia Ave

0.6 mi

6. Turn right toward DE-1A/Rd 15/Rehoboth Ave

194 ft

7. Merge onto DE-1A/Rd 15/Rehoboth Ave
   Continue to follow DE-1A/Rd 15

0.8 mi

8. Merge onto DE-1 N

4.5 mi

Follow Coastal Hwy and DE-1 N/Bay Rd to Dover

39 min (37.7 mi)

9. Continue straight onto DE-1 N/Coastal Hwy
   Continue to follow Coastal Hwy

17.8 mi

10. Continue onto DE-1 N/Bay Rd

16.6 mi

11. Use the right 2 lanes to take exit 95 for DE-10 toward Dover/Camden

0.2 mi

12. Continue onto S Bay Rd

1.2 mi

13. Slight left

0.3 mi

14. Continue onto Puncheon Run Connector

1.2 mi

15. Sharp right onto US-13 N

0.3 mi

Take S State St to your destination

4 min (1.2 mi)

16. Slight left toward S State St

249 ft

17. Use any lane to turn left onto S State St

1.0 mi

18. Turn left onto W Water St

236 ft

19. Turn left

177 ft

20. Turn left
    Destination will be on the right

167 ft

DNREC State Street Commons
100 W Water St, Dover, DE 19904

Attachment C:

Surrounding Properties
within 1,000 ft radius

Henlopen Acres Dredging Project: Properties Within 1,000 Ft Radius

Name	PARID	Physical Adress	Mailing Adress	Town	State	Zip
COPEN JASON J	334-13.00-1298.00	32 ELEANOR LEE LN E	409 SALK CIR	GAITHERSBURG	MD	20878
SHELTON DAVID C	334-13.00-1299.00	34 ELEANOR LEE LN E	630 UNIVERSITY PL	SWARTHMORE	PA	19081
WIEGAND CLAUDIA FRANCES TTEE REV TRST	334-13.00-1300.00	36 ELEANOR LEE LN E	36 ELEANOR LEE LN	REHOBOTH BEACH	DE	19971
CLAIR WILLIAM J	334-13.00-1301.00	38 ELEANOR LEE LN E	1691 ATLANTIC BEACH	ATLANTIC BEACH	FL	32233
FELT STEPHEN J	334-13.00-1302.00	40 ELEANOR LEE LN E	4609 SIMON RD	WILMINGTON	DE	19803
VARNER REX LYTLE & MAURICE	334-13.00-1303.00	42 ELEANOR LEE LN E	42 ELEANOR LEE LANE E	REHOBOTH BEACH	DE	19971
SPELLBERG PHILIP S TTEE	334-13.00-1304.00	44 ELEANOR LEE LN E	44 ELEANOR LEE LN E	REHOBOTH BEACH	DE	19971
MCMASTERS MICHAEL PAUL TTEE	334-13.00-1305.00	46 ELEANOR LEE LN	46 ELEANOR LEE LN E	REHOBOTH BEACH	DE	19971
PRETTYMAN JAMES W & ROBERT Y	334-13.00-1306.00	48 ELEANOR LEE LN	50 ELEANOR LEE LN E	REHOBOTH BEACH	DE	19971
PRETTYMAN JAMES W & ROBERT YOST	334-13.00-1307.00	50 ELEANOR LEE LN	50 ELEANOR LEE LN E	REHOBOTH BEACH	DE	19971
PRETTYMAN JAMES W & ROBERT Y	334-13.00-1308.00	52 ELEANOR LEE LN	50 ELEANOR LEE LN E	REHOBOTH BEACH	DE	19971
CROSS DAVID L TTEE	334-13.00-1309.00	54 ELEANOR LEE LN	753 SCOTLAND ST	DUNEDIN	FL	34698
SMITH MARTIN C TTEE	334-13.00-1310.00	56 ELEANOR LEE LN	56 ELEANOR LEE LN E	REHOBOTH BEACH	DE	19971
SEADRAGONDEY LLC	334-13.00-1311.00	58 ELEANOR LEE LN	1106 HOPETON RD	WILMINGTON	DE	19807
BURCHETT JOHN C TRUSTEE	334-13.00-1312.00	2 CANAL CT	2 CANAL COURT	REHOBOTH BEACH	DE	19971
WARD JOSEPH ALEXANDER	334-13.00-1313.00	4 CANAL CT	7204 EXFAIR RD	BETHESDA	MD	20814
HEYMANN ERNEST L TTEE	334-13.00-1314.00	5 CANAL CT	13915 OLD COAST RD UNIT 803	NAPLES	FL	34110
BURKENTINE PAUL TRUSTEE	334-13.00-1315.00	3 CANAL CT	330 DUBS CHURCH RD	HANOVER	PA	17331
CHINNICI JOSEPH R	334-13.00-1316.00	60 ELEANOR LEE LN	60 ELEANOR LEE LN EAST	REHOBOTH BEACH	DE	19971
ANITA L MCMULLIN TTEE	334-13.00-1317.00	62 ELEANOR LEE LN E	62 ELEANOR LEE LN	REHOBOTH BEACH	DE	19971
MCDONALD THOMAS P	334-13.00-1323.00	37 THOMPSON CT	37 THOMPSON COURT	REHOBOTH BEACH	DE	19971
AMENDOLA PATSY J	334-13.00-1324.00	35 THOMPSON CT	35 THOMPSON COURT	REHOBOTH BEACH	DE	19971
BERNSTEIN DARREN H TTEE	334-13.00-1325.00	33 THOMPSON CT	2095 CHAIN BRIDGE RD 2ND FL	VIENNA	VA	22182
BRYAN ANDREW T	334-13.00-1326.00	31 THOMPSON CT	31 THOMPSON CT	REHOBOTH BEACH	DE	19971
COON BRUCE PALMER	334-13.00-1327.00	29 THOMPSON CT	29 THOMPSON CT	REHOBOTH BEACH	DE	19971
NICOTRA PHILIP F TTEE	334-13.00-1328.00	27 THOMPSON CT	27 THOMPSON CT	REHOBOTH BEACH	DE	19971
BERK STEVEN RICHARD	334-13.00-1339.00	19 ELEANOR LEE LN E	7615 KNIGHTHAYES DR	MANASSAS	VA	20111
BONA DIANNE K TTEE REV TR	334-13.00-1340.00	21 ELEANOR LEE LN E	1803 ABBEY OAK DR	VIENNA	VA	22182
HARTOGS MICHAEL L TTEE	334-13.00-1341.00	23 ELEANOR LEE LN	513 W BROAD ST UNIT 613	FALLS CHURCH	VA	22046
Prettyman James A	334-13.00-1342.00	25 ELEANOR LEE LN E	50 ELEANOR LEE LN E	REHOBOTH BEACH	DE	19971
HEYMANN ERNEST L TTEE	334-13.00-1343.00	27 ELEANOR LEE LN	13915 OLD COAST RD UNIT 803	NAPLES	FL	34110
WEAVER HEATH BRADLEY	334-13.00-1344.00	29 ELEANOR LEE LN E	29 ELEANOR LEE LN	REHOBOTH BEACH	DE	19971
BRAYER WILLIAM K	334-13.00-1345.00	31 ELEANOR LEE LN E	31 ELEANOR LEE LN	REHOBOTH BEACH	DE	19971
WOLFLE JOHN M & JOAN L WOLFLE	334-13.00-1346.00	33 ELEANOR LEE LN E	33 ELEANOR LEE LN EAST	REHOBOTH BEACH	DE	19971
ELEANOR LEE LLC	334-13.00-1347.00	35 ELEANOR LEE LN E	173 JOCKEYVILLE RD LOT 25	GLOVERSVILLE	NY	12078
MCGIVNEY PATRICIA D	334-13.00-1348.00	37 ELEANOR LEE LN	161 NEW GRANVILLE RD	WILMINGTON	DE	19808
DRISCOLL STEPHEN J	334-13.00-1349.00	39 ELEANOR LEE LN	213 HIGHLAND AVE	WALLINGFORD	PA	19086
DIBERARDO RICHARD A & LISA M	334-13.00-1350.00	41 ELEANOR LEE LN	21 SPARKS FARM RD	SPARKS	MD	21152
HERTRICH FREDERICK WILLIAM IV TTEE	334-13.00-1351.00	43 ELEANOR LEE LN	34 TIDEWATER DR	REHOBOTH BEACH	DE	19971
GOLDBERG DAVID E	334-13.00-1352.00	45 ELEANOR LEE LN	45 ELEANOR LEE LN E	REHOBOTH BEACH	DE	19971
KING MICHAEL M BEATRICE M	334-13.00-1353.00	47 ELEANOR LEE LN	47 ELEANOR LEE LN E	REHOBOTH BEACH	DE	19971
INGERSOLL BARBARA JANE TTEE	334-13.00-1354.00	49 ELEANOR LEE LN	PO BOX 98	DELAPLANE	VA	20144
LYONS AMY JO	334-13.00-1355.00	42 FILLINGAME WAY	42 FILLINGAME WAY	REHOBOTH BEACH	DE	19971
PENDLETON ROBERT J TTEE	334-13.00-1356.00	40 FILLINGAME WAY	40 FILLINGAME WAY	REHOBOTH BEACH	DE	19971
TONER DENNIS J ANN D TONER	334-13.00-1357.00	38 FILLINGAME WAY	38 FILLINGAME WAY	REHOBOTH BEACH	DE	19971
ISOLA MARIE S JEROME J	334-13.00-1358.00	36 FILLINGAME WAY	408 PAYNTER AVE	LEWES	DE	19958
DRENNEN LAWRIE R JR	334-13.00-1359.00	34 FILLINGAME WAY	671 THUNDER HILL RD	LINCOLN UNIVERSITY	PA	19352
LINGO ANN MARIE KEOUGH TTEE	334-13.00-1360.00	32 FILLINGAME WAY	66 PINE REACH RD	REHOBOTH BEACH	DE	19971
HOBMAN BETH E	334-13.00-1361.00	30 FILLINGAME WAY	114 CROSSPOINTE DR	WEST CHESTER	PA	19380
REYNOLDS FREDERICK D III TTEE REV TR	334-13.00-1362.00	28 FILLINGAME WAY	850 6TH AVE N UNIT 202	NAPLES	FL	34102
BAILEY PAUL CLINTON	334-13.00-1363.00	26 FILLINGAME WAY	2604 HOLLY MANOR DR	FALLS CHURCH	VA	22043
SAA SALIM & YVONNE	334-13.00-1364.00	24 FILLINGAME WAY	4104 SUMMIT HEIGHTS WAY #1	FAIRFAX	VA	22030
HALL DAVID MARTIN TTEE	334-13.00-1365.00	22 FILLINGAME WAY	7451 ARLINGTON RD	BETHESDA	MD	20814
BARBER WAYNE L	334-13.00-1366.00	20 FILLINGAME WAY	26 ASTON COURT	OWINGS MILLS	MD	21117
BERNSTEIN EVA G DARREN H BERNSTEIN	334-13.00-1367.00	18 FILLINGAME WAY	18 FILLINGAME WAY	REHOBOTH BEACH	DE	19971
CRO MATTHEW B	334-13.00-1368.00	16 FILLINGAME WAY	7136 SEWELL AVE	FALLS CHURCH	VA	22046
KESSLER LAURIE SUE	334-13.00-1369.00	14 FILLINGAME WAY	45 PHILLIPS RD	HAINESPORT	NJ	8036
HITZ WILLIAM D	334-13.00-1378.00	9 FILLINGAME WAY	9 FILLINGAME WAY	REHOBOTH BEACH	DE	19971
JACKSON EDWARD R	334-13.00-1379.00	10 MAASS LN	789 HARNESS CREEK VIEW DR	ANNAPOLIS	MD	21403
HOLMES THOMAS M	334-13.00-1380.00	8 MAASS LN	8 MAASS LN	REHOBOTH BEACH	DE	19971
MACKINTOSH KEVIN SCOTT	334-13.00-1381.00	6 MAASS LN	1311 MURRAY DOWNS WAY	RESTON	VA	20194
ALIQUO JAMES F JR TTEE	334-13.00-1384.00	10 THOMPSON CT	10 THOMPSON CT	REHOBOTH BEACH	DE	19971
HOYER THOMAS E JR & MAUREEN	334-13.00-1385.00	3 MAASS LN	PO BOX 1344	REHOBOTH BEACH	DE	19971
ABELL WILLIAM T	334-13.00-1386.00	4 EWALD ST	4 EWALD ST	REHOBOTH BEACH	DE	19971
ALEXANDER GARY W	334-13.00-1387.00	2 EWALD ST	2 EWALD ST	REHOBOTH BEACH	DE	19971
WHITMAN SCOTT TTEE	334-13.00-1388.00	14 THOMPSON CT	10402 WELLER DR	AUSTIN	TX	78750
EPSTEIN ROBYN	334-13.00-1389.00	16 THOMPSON CT	2132 CATHEDRAL AVE NW	WASHINGTON	DC	20008
MALIZIA MICHELE B	334-13.00-1390.00	18 THOMPSON CT	14 SAYERS CT	WILMINGTON	DE	19803
THOMPSON STEPHEN C	334-13.00-1391.00	20 THOMPSON CT	20 THOMPSON CT	REHOBOTH BEACH	DE	19971
GRAHAM CHARLES OKKE	334-13.00-1392.00	27 FILLINGAME WAY	27 FILLINGAME WAY	REHOBOTH BEACH	DE	19971
STROGUS JACK	334-13.00-1393.00	25 FILLINGAME WAY	304 COVERED BRIDGES RD	KING OF PRUSSIA	PA	19406
TROLIO MICHAEL A TTEE	334-13.00-1394.00	23 FILLINGAME WAY	23 BEACON LN	NEWARK	DE	19711
BERGMAN DAVID A	334-13.00-1395.00	5 EWALD ST	5 EWALD ST	REHOBOTH BEACH	DE	19971
HOLLIS JEANNINE M TTEE	334-13.00-1396.00	3 EWALD ST	231 S FAIRVILLE RD	CHADDS FORD	PA	19317
HIGGINS E C MICHAEL TRUSTEE	334-13.00-1397.00	20 ELEANOR LEE LN	2425 L ST, NW #203	WASHINGTON	DC	20037
CDCD LLC	334-13.00-1398.00	22 ELEANOR LEE LN	3504 CORNELL RD	FAIRFAX	VA	22030
BOWERS JAMES K	334-13.00-1399.00	24 ELEANOR LEE LN E	2800 N JEFFERSON ST	ARLINGTON	VA	22207
CAPELLA MICHAEL A	334-13.00-1400.00	26 ELEANOR LEE LN	200 EAST 32ND ST 7D	NEW YORK	NY	10016
PALEI LEV V	334-13.00-1401.00	28 ELEANOR LEE LN	7801 BRADLEY BLVD	BETHESDA	MD	20817
MORGANWALP JILLIAN M	334-13.00-1402.00	30 ELEANOR LEE LN	2582 JOHN MILTON DR	HERNDON	VA	20171
CANAL CORKRAN HOMEOWNERS ASSOCIATION	334-13.00-1411.00		PO BOX 605	REHOBOTH BEACH	DE	19971
CANAL CORKRAN HOMEOWNERS ASSOCIATION	334-13.00-1412.00		PO BOX 605	REHOBOTH BEACH	DE	19971
CANAL CORKRAN HOMEOWNERS ASSOCIATION	334-13.00-1413.00		PO BOX 606	REHOBOTH BEACH	DE	19972
CANAL CORKRAN HOMEOWNERS ASSOCIATION	334-13.00-1447.00	18 ELEANOR LEE LN	PO BOX 650858	DALLAS	TX	75265
SCHIEFELBEIN URSULA INEZ	334-13.16-1.00	75 PINE REACH	75 PINE REACH	REHOBOTH BEACH	DE	19971
87 TIDEWATERS LLC	334-13.16-13.01	87 TIDEWATERS	37139 REHOBOTH AVE EXT	REHOBOTH BEACH	DE	19971
CACCIAMANI MARTHA C	334-13.16-14.00	89 TIDEWATERS	10100 NEW LONDON DR	POTOMAC	MD	20854
DONAGHY ALICE WARNER	334-13.16-15.00	91 TIDEWATERS	100 OXFORD PL	WILMINGTON	DE	19803
GAFFNEY MICHAEL	334-13.16-16.00	93 TIDEWATERS	317 N COLUMBUS ST	ALEXANDRIA	VA	22314
NOBLE JOHN W NADINE M	334-13.16-17.00	95 TIDEWATERS	95 TIDEWATER RD	REHOBOTH BEACH	DE	19971
LINGO CARRIE E	334-13.16-18.00	97 TIDEWATERS	97 TIDEWATERS	REHOBOTH BEACH	DE	19971
LOMAS PROPERTIES LLC	334-13.16-19.00	99 TIDEWATERS	107 MARTIN LN	REHOBOTH BEACH	DE	19971
ROCANELLI ANDREA L	334-13.16-2.00	77 PINE REACH	124 SCHOOL RD	WILMINGTON	DE	19803
TIDEWATERS HOLDINGS LLC	334-13.16-20.00	101 TIDEWATERS	101 GRAFTON STREET	CHEVY CHASE	MD	20815
LYONS TIMOTHY J DAVID F LYONS CO-TTEES	334-13.16-21.00	103 TIDEWATERS	214 SANDRA RD	WILMINGTON	DE	19803
WALLACE MARC R & SUSAN C WALLACE	334-13.16-22.00	105 TIDEWATERS	5723 27TH ST	NORTH ARLINGTON	VA	22207
HENLOPEN MAYOR & COMMISS OF	334-13.16-23.00	104 TIDEWATERS	104 TIDEWATER RD	REHOBOTH BEACH	DE	19971
WALKER WAYNE R	334-13.16-24.00	102 TIDEWATERS	2025 SPRUCE STREET	PHILADELPHIA	PA	19103
HOLLINGER JASON	334-13.16-25.00	100 TIDEWATERS	304 S FRONT ST	PHILADELPHIA	PA	19106
GRETZ STEPHEN E	334-13.16-26.00	98 TIDEWATERS	1952 LITTLE CONESTOGA RD	ELVERSON	PA	19520
WADE FORREST J TTEE	334-13.16-27.00	96 TIDEWATERS	2516 DEEPWOOD DR	WILMINGTON	DE	19810
HUFFMAN ANN ELIZABETH	334-13.16-28.00	86 PINE REACH	86 PINE REACH	REHOBOTH BEACH	DE	19971
PIERNO THOMAS M & ELICIA M	334-13.16-29.00	84 PINE REACH	5785 SERENGETI CT	HAYMARKET	VA	20169
CRONIN EMILY	334-13.16-3.00	94 TIDEWATERS	94 TIDEWATERS RD	REHOBOTH BEACH	DE	19971
RODGERS MARY STUART	334-13.16-30.00	82 PINE REACH	125 CHARLESBROOKE RD	BALTIMORE	MD	21212
MONTGOMERY LOUISE B M SHERRIL	334-13.16-31.00	80 PINE REACH	80 PINE REACH ROAD	REHOBOTH BEACH	DE	19971
DEVOL ANTHONY R	334-13.16-32.00	133 HENLOPEN AV	133 HENLOPEN AVE	REHOBOTH BEACH	DE	19971
MOGILNICKI ERIC	334-13.16-32.01	135 HENLOPEN AV	3201 LELAND ST	CHEVY CHASE	MD	20815
HOFFMAN ANDREA LYNNE ABRAM	334-13.16-33.00	137 HENLOPEN AV	137 HENLOPEN AVE	REHOBOTH BEACH	DE	19971
CAMPBELL JOHN C	334-13.16-34.00	1 EASTON ST	2343 CHESTER SPRINGS RD	CHESTER SPRINGS	PA	19425
TARBOX RICHARD C	334-13.16-34.01	5 EASTON ST	422 BELROSE LANE	RADNOR	PA	19087
RAPORT RICHARD	334-13.16-35.00	141 HENLOPEN AV	6900 FLEETWOOD RD. UNIT 705	MC LEAN	VA	22101
MILLER ROBERT W & THOMAS J	334-13.16-36.00	143 HENLOPEN AV	2802 29TH ST NW	WASHINGTON	DC	20008
RAGO RICHARD F	334-13.16-37.00	145 HENLOPEN AV	1505 N FRANKLIN STREET	WILMINGTON	DE	19806
RAGO RICHARD F	334-13.16-38.00	147 HENLOPEN AV	1505 N FRANKLIN ST	WILMINGTON	DE	19806
ONE FORTY NINERS CORP	334-13.16-39.00	149 HENLOPEN AV	PO BOX 3	ELLENDALE	DE	19941
92 TIDEWATERS LLC	334-13.16-4.00	92 TIDEWATERS	10835 BURBANK DR	POTOMAC	MD	20854
WEBER STEPHEN L & MARIA B WEBER	334-13.16-40.00	151 HENLOPEN AV	3503 LOWELL ST NW	WASHINGTON	DC	20016
STREIMER ROBERT A	334-13.16-40.01	153 HENLOPEN AV	153 HENLOPEN AVE	REHOBOTH BEACH	DE	19971
HYMAN LOUIS E TTEE REV TR	334-13.16-41.00	157 HENLOPEN AV	2421 STILL FOREST RD	BALTIMORE	MD	21208
STOLSON JONATHAN S & CYNTHIA L	334-13.16-41.01	155 HENLOPEN AV	155 HENLOPEN AVE	REHOBOTH BEACH	DE	19971
WOODHUGH ASSOCIATES INC	334-13.16-42.00		159 HENLOPEN AVE	REHOBOTH BEACH	DE	19971

DUNCAN GEORGE W TTEE REV TR	334-13.16-43.00	144 HENLOPEN AV	13026 JEROME JAY DR	COCKEYSVILLE HUNT VA	MD	21030
ROUCHARD JAMES C TTEE OF THE JAMES	334-13.16-44.00	142 HENLOPEN AV	142 HENLOPEN AVE	REHOBOTH BEACH	DE	19971
BERTOT JEMILE L	334-13.16-45.00	138 HENLOPEN AV	202 ELM ST	ALEXANDRIA	VA	22301
GAFFNEY MATTHEW V	334-13.16-45.01	140 HENLOPEN AV	140 HENLOPEN AVE	REHOBOTH BEACH	DE	19971
NERICH DEBRA HARPER	334-13.16-46.00	145 COLUMBIA AV	3908 WOODBINE ST	CHEVY CHASE	MD	20815
RAWLS GARY M SR	334-13.16-47.00	143 COLUMBIA AV	143 COLUMBIA AVE	REHOBOTH BEACH	DE	19971
LEFEVER VACATION HOME TR	334-13.16-48.00	139 COLUMBIA AV	10 N MARKET ST UNIT 302	LANCASTER	PA	17603
PIETRAS-WEED MICHAEL J	334-13.16-48.01	141 COLUMBIA AV	3512 SCHUERMAN HOUSE DR	FAIRFAX	VA	22031
BOVA MICHAEL P	334-13.16-49.00	136 HENLOPEN AV	16 ARDMOOR LN	CHADDS FORD	PA	19317
JAMISON LEIGH C	334-13.16-5.00	90 TIDEWATERS	90 TIDEWATERS RD	REHOBOTH BEACH	DE	19971
REINFURT EDWARD JOSEPH TTEE	334-13.16-50.00	134 HENLOPEN AV	605 POPLAR DR	FALLS CHURCH	VA	22046
SCHNEIDER RICHARD ROBERT REV TR	334-13.16-51.00	132 HENLOPEN AV	104 RAY MAR DR	ORMOND BEACH	FL	32176
ST MICHAELS PLACE INC	334-13.16-52.00		13013 N SHORE RD	OCEAN CITY	MD	21842
SIMMONS DAVID W	334-13.16-53.00	2 SAINT MICHAELS PL	2114 12TH ST NW	WASHINGTON	DC	20009
RABIN ROSE MARIE TRUSTEE	334-13.16-54.00	4 SAINT MICHAELS PL	4 SAINT MICHAELS PL	REHOBOTH BEACH	DE	19971
NORTH MARILYN A TTEE	334-13.16-55.00	6 SAINT MICHAELS PL	6 ST MICHAEL'S PL	REHOBOTH BEACH	DE	19971
BREMER CHARLES E	334-13.16-56.00	8 SAINT MICHAELS PL	8 ST MICHAELS PL	REHOBOTH BEACH	DE	19971
MCLOUGHLIN THOMAS PATRICK III TTEE	334-13.16-57.00	10 SAINT MICHAELS PL	10 ST MICHAELS PL	REHOBOTH BEACH	DE	19971
KEELER KURT C	334-13.16-58.00	12 SAINT MICHAELS PL	184 ELKINS LAKE	HUNTSVILLE	TX	77340
MASON RANDALL S	334-13.16-59.00	14 SAINT MICHAELS PL	16 ST MICHAELS PL	REHOBOTH BEACH	DE	19971
MURPHY NORA B TRUSTEE	334-13.16-6.00	88 TIDEWATERS	90 FOREST AVE	NEW ROCHELLE	NY	10804
MASON RANDALL S	334-13.16-60.00	16 SAINT MICHAELS PL	16 ST MICHAELS PL	REHOBOTH BEACH	DE	19971
EDGEWATER PARK DEVELOPMENT LLC	334-13.20-113.00	19863 CHURCH ST	PO BOX 808	OCEAN VIEW	DE	19970
COMMISSIONERS OF REHOBOTH	334-13.20-114.00		PO BOX C	REHOBOTH BEACH	DE	19971
GROSS EUGENE J JR	334-13.20-115.00	165 HENLOPEN AV	7904 OAKLEIGH RD	PARKVILLE	MD	21234
YOUNG TIMOTHY M	334-13.20-116.00	163 HENLOPEN AV	325 KERRWOOD DR	WAYNE	PA	19087
BENNETT SAMUEL WOODS	334-13.20-116.01	163 HENLOPEN AV	521 PICCADILLY RD	TOWSON	MD	21204
FELKER ALEX D TTEE	334-13.20-117.00	6 GROVE AV	6 GROVE AVE	REHOBOTH BEACH	DE	19971
CHURCH EPWORTH METHODIST CH	334-13.20-118.00	163 HENLOPEN AV	19285 HOLLAND GLADE RD	REHOBOTH BEACH	DE	19971
HENLOPEN ROW LLC	334-13.20-119.00	152 HENLOPEN AV	604 PENDLETON ST	ALEXANDRIA	VA	22314
WEBER STEPHEN LEE	334-13.20-120.00	154 HENLOPEN AV	604 PENDLETON ST	ALEXANDRIA	VA	22314
BARNES JEFFREY KIM	334-13.20-121.00	156 HENLOPEN AV	478 OXFORD RD	NEW OXFORD	PA	17350
GIS TIEBACK	334-13.20-121.01					
PROPERTIES LLC SUSSEX EXCHANGE & WANDA	334-13.20-122.00	164 HENLOPEN AV	9039 SLIGO CREEK PKWY APT	SILVER SPRING	MD	20901
DIMAGGIO JEROME A	334-13.20-122.01	162 HENLOPEN AV	162 HENLOPEN AVE	REHOBOTH BEACH	DE	19971
FOSTER MICHAEL F & BARBARA J	334-13.20-123.00	166 HENLOPEN AV	9327 DIMMICK DR	SANIBEL	FL	33957
FITZGERALD KEITH F & GAYLE P	334-13.20-124.00	4 GROVE AV	4 GROVE ST	REHOBOTH BEACH	DE	19971
IVILL DENNIS W	334-13.20-125.00	3 GROVE ST	1101 LOMBARD ST	PHILADELPHIA	PA	19947
GOODE JEFFREY H	334-13.20-126.00	1 GROVE AV	1 GROVE ST	REHOBOTH BEACH	DE	19971
KALINSKY STEPHEN G	334-13.20-126.01	2 GROVE ST	18234 HIGHWOOD DR	REHOBOTH BEACH	DE	19971
ROWAN SUZANNE P	334-13.20-126.02	169 COLUMBIA AV	25429 OAK DR	DAMASCUS	MD	20872
ROSE RANDOLPH C	334-13.20-126.03	171 COLUMBIA AV	171 COLUMBIA AVE	REHOBOTH BEACH	DE	19971
VOORTHUIS PIERCE	334-13.20-126.04	173 COLUMBIA AV	5214 WISSIOMING RD	BETHESDA	MD	20816
ROYSTER SHESLIE D	334-13.20-127.00	167 COLUMBIA AV	6206 WOODCREST DR	ELLICOTT CITY	MD	21043
WEST META M HARPER & DEBRA SUE	334-13.20-128.00	165 COLUMBIA AV	145 COLUMBIA AVE	REHOBOTH BEACH	DE	19971
NERICH DEBRA HARPER	334-13.20-129.00	163 COLUMBIA AV	3908 WOODBINE ST	CHEVY CHASE	MD	20815
JERDONEK EILEEN F TRUSTEE	334-13.20-130.00	161 COLUMBIA AV	720 SOUTH FAIRFAX ST	ALEXANDRIA	VA	22314
COVAS JUDE J	334-13.20-131.00	159 COLUMBIA AV	7906 WILLFIELD COURT	FAIRFAX STATION	VA	22039
KANE KATHLEEN E & EDWIN J	334-13.20-132.00	155 COLUMBIA AV	2707 COVERED WAGON WAY	ONLEY	MD	20832
FUREY ANTHONY B	334-13.20-133.00	131 FELTON ST	108 EDGEWOOD RD	WILMINGTON	DE	19803
GLEESON BETTY G TRUSTEE	334-13.20-134.00	133 FELTON ST	133 FELTON ST	REHOBOTH BEACH	DE	19971
CITY LIVING LLC	334-13.20-135.00	150 HENLOPEN AV	714 PRINCETON RD	WILMINGTON	DE	19807
PATON WILLIAM K TRUSTEE	334-13.20-136.00	148 HENLOPEN AV	243 QUAYSIDE CIRCLE	MAITLAND	FL	32751
STEPHENSON HUGH EDWARD III	334-13.20-137.00	146 HENLOPEN AV	5 DANFORTH CIR	COLUMBIA	MO	65201
CONOVER EVEREST SCOTT JR	334-13.20-138.00	153 COLUMBIA AV	502 WOODLAWN RD	BALTIMORE	MD	21220
SHOTWELL DAVID C	334-13.20-139.00	151 COLUMBIA AV	2215 1ST ST NW	WASHINGTON	DC	20001
ROSENTHAL HENRY L JR	334-13.20-140.00	149 COLUMBIA AV	PO BOX 1	ISLAMORADA	FL	33036
BARTON PAUL WESLEY	334-13.20-141.00	147 COLUMBIA AV	367 SHEFFIELD RD	SEVERNA PARK	MD	21146
RODANO SALVATORE J & JANE A	334-13.20-142.00	148 COLUMBIA AV	3004 FLORIBUNDA CT	FALLSTON	MD	21047
GAREY C RIX & BRENDA S	334-13.20-143.00	86 KENT ST	12951 KIMBERLEY LN	HOUSTON	TX	77079
TROXELL GARY F	334-13.20-143.01		18 LESLIE AVE	FLORHAM PARK	NJ	7932
POOH 2 LLC	334-13.20-144.00	84 KENT ST	122 SAINT VINCENT CT	CHERRY HILL	NJ	8003
FRADIN JOEL M	334-13.20-145.00	107 FIFTH ST	307 RIDGELY RD	TIMONIUM	MD	21093
LUHRS KEVIN C	334-13.20-145.01	105 FIFTH ST	105 5TH ST	REHOBOTH BEACH	DE	19971
KAPLAN MICHAEL	334-13.20-146.00	89 SUSSEX ST	PO BOX 7205	NEWPORT BEACH	CA	92658
BEDIZ DAVID RIZA	334-13.20-147.00	91 SUSSEX ST	113 U STREET NW	WASHINGTON	DC	20001
PATERNOSTER EMILIE J	334-13.20-148.00	93 SUSSEX ST	3 LONDON CIR N	REHOBOTH BEACH	DE	19971
O'LEARY DANIEL R & KATHERINE L	334-13.20-149.00	95 SUSSEX ST	12832 HIGHLAND RD	HIGHLAND	MD	20777
POULIN ROBERT S JESSICA	334-13.20-150.00	97 SUSSEX ST	2719 DANIEL RD	CHEVY CHASE	MD	20815
99 SUSSEX LLC	334-13.20-151.00	99 SUSSEX ST	3000 CHESTNUT AVE STE 109B	BALTIMORE	MD	21211
DOLECKI DENNIS M TTEE	334-13.20-152.00	100 SUSSEX ST	203 ARROWWOOD LN	CHADDS FORD	PA	19317
LAUDER ROBERT N	334-13.20-153.00	96 SUSSEX ST	159 MADISON AVE APT 12F	NEW YORK	NY	10016
SUMMIT BUSINESS CENTER INC	334-13.20-154.00	94 SUSSEX ST	802 ROSER PARK DRIVE S.	SAINT PETERSBURG	FL	33701
PORTEOUS DAVID	334-13.20-155.00	92 SUSSEX ST	3210 SWARTHMORE RD	WILMINGTON	DE	19807
ROWLAND SAMUEL CARSON III TRUSTEE	334-13.20-156.00	90 SUSSEX ST	90 SUSSEX STREET	REHOBOTH BEACH	DE	19971
PICKLE PEARSON ENTERPRISES LLC	334-13.20-157.00	88 SUSSEX ST	353 FELLOWSHIP CIR	GAITHERSBURG	MD	20877
GREEVES JOHN T	334-13.20-158.00	86 SUSSEX ST	5702 VISITATION WAY	BALTIMORE	MD	21210
403 REHOBOTH AVENUE LLC	334-13.20-159.00	403 REHOBOTH AV	77 TIDEWATER RD	REHOBOTH BEACH	DE	19971
DELF LLC	334-13.20-160.00	405 REHOBOTH AV	345 HOLLY TREE DR	CROSSVILLE	TN	38555
ALVIC 73	334-13.20-161.00		5068 SHERIER PL NW	WASHINGTON	DC	20016
DRIFTING SEAS LLC	334-13.20-164.00	413 REHOBOTH AV	402 REHOBOTH AVE	REHOBOTH BEACH	DE	19971
SUMMER SURF LLC	334-13.20-165.00	415 REHOBOTH AV	402 REHOBOTH AVE	REHOBOTH BEACH	DE	19971
SENSEINIG CHAD	334-13.20-165.01	98 SUSSEX ST	215 WHITE HERON LAKE DR	EAST STROUDSBURG	PA	18302
REHOBOTH TIDES LLC	334-13.20-166.00	417 REHOBOTH AV	402 REHOBOTH AVE	REHOBOTH BEACH	DE	19971
419 REHO LLC	334-13.20-167.00	419 REHOBOTH AV	8 TIDEWATERS RD	REHOBOTH BEACH	DE	19971
KKS PROPERTIES LLC	334-13.20-167.01	102 SUSSEX ST	47 COLUMBIA AVE	REHOBOTH BEACH	DE	19971
ROUNDABOUT HOLDINGS LLC	334-13.20-168.00	423 REHOBOTH AV	402 REHOBOTH AVE	REHOBOTH BEACH	DE	19971
REHOBOTH COMM OF	334-13.20-169.00		REHOBOTH AVE	REHOBOTH BEACH	DE	19971
REHOBOTH COMM OF	334-13.20-170.00		REHOBOTH AVE	REHOBOTH BEACH	DE	19972
REHOBOTH BEACH CITY OF THE	334-13.20-170.01	501 REHOBOTH AV	229 REHOBOTH AVE	REHOBOTH BEACH	DE	19971
REHOBOTH CITY OF	334-13.20-171.00	511 REHOBOTH AV	PO BOX C	REHOBOTH BEACH	DE	19971
420 REHOBOTH AVE LLC	334-13.20-218.00	420 REHOBOTH AV	420 REHOBOTH AVE	REHOBOTH BEACH	DE	19971
HENDERSON MARY W TRUST	334-13.20-218.01		205 NORFOLK ST	REHOBOTH BEACH	DE	19971
EISENMAN BETTY JANE & RICHARD S	334-13.20-219.00	418 REHOBOTH AV	46 DEERFIELD LN	REHOBOTH BEACH	DE	19971
SCHEURER JOHN M TRUSTEE	334-14.13-22.00	73 PINE REACH	62 TIDEWATERS RD	REHOBOTH BEACH	DE	19971
HENLOPEN ACRES TOWN OF	334-14.13-23.00	78 PINE REACH	104 TIDEWATERS	REHOBOTH BEACH	DE	19971
KLEIN JOHN R II	334-14.13-23.01	76 PINE REACH	76 PINE REACH	REHOBOTH BEACH	DE	19971
WILSON MARVEL JR & SARA JANE B	334-14.13-24.00	74 PINE REACH	19 PRIMROSE LANE	WEST CHESTER	PA	19380
BERKMAN THOMAS A	334-14.13-51.00	117 HENLOPEN AV	117 HENLOPEN AVE	REHOBOTH BEACH	DE	19971
ELLINGHAUS KATHLEEN B	334-14.13-52.01	121 HENLOPEN AV	7249 GREYSTONE ST	LAKEWOOD RANCH	FL	34202
BRITTINGHAM WALTER W	334-14.13-53.00	123 HENLOPEN AV	123 HENLOPEN AVE	REHOBOTH BEACH	DE	19971
JRFOX PROPERTIES LLC	334-14.13-54.00	127 HENLOPEN AV	126 LOVEVILLE RD APT 17	HOCKESSIN	DE	19707
LOGAN CHARLES L & BARBARA A	334-14.13-55.00	131 HENLOPEN AV	131 HENLOPEN AVE	REHOBOTH BEACH	DE	19971
SCOBEY DIANE M & JENNIFER P	334-14.13-55.01	129 HENLOPEN AV	129 HENLOPEN AVE	REHOBOTH BEACH	DE	19971
BURNS TIMOTHY F TRUSTEE	334-14.13-56.00	130 HENLOPEN AV	3835 9TH ST N APT 808W	ARLINGTON	VA	22203
GAINER FRANK RAMON SANTOS	334-14.13-57.00	128 HENLOPEN AV	1601 18TH ST NW #602	WASHINGTON	DC	20009
NOLAN JAMES G & ELLIN J	334-14.13-58.00	124 HENLOPEN AV	7503 LYNN DRIVE	CHEVY CHASE	MD	20815
COHEN STEPHEN L TTEE REV TR	334-14.13-59.00	122 HENLOPEN AV	3938 LIVINGSTON ST NW	WASHINGTON	DC	20015
HARPER ROBERT F TRUSTEE	334-14.13-60.00	120 HENLOPEN AV	PO BOX 4689	WILMINGTON	DE	19807
MONTGOMERY JOHN H	334-14.13-61.00	116 HENLOPEN AV	5914 CEDAR PKWY	CHEVY CHASE	MD	20815
YERKES SCOTT P	334-14.13-63.00	117 COLUMBIA AV	22 TAYLORS FARM DR	NEWARK	DE	19711
WILLIAMSON JAMES DELANO	334-14.13-64.00	119 COLUMBIA AV	1430 VARNUM ST	WASHINGTON	DC	20011
SMITH CYNTHIA P	334-14.13-65.00	121 COLUMBIA AV	6619 SAINT MARKS COURT	ALEXANDRIA	VA	22306
TUCCI MARY ANNE REV TR	334-14.13-66.00	123 COLUMBIA AV	2410 WHITE HORSE RD	BERWYN	PA	19312
RATH CHARLA M	334-14.13-67.00	125 COLUMBIA AV	4328 VAN NESS STREET NW	WASHINGTON	DC	20016
UNGER ANTHONY S	334-14.13-67.01	127 COLUMBIA AV	127 COLUMBIA AVE	REHOBOTH BEACH	DE	19971
SEGEV MOLLY	334-14.13-68.00	129 COLUMBIA AV	929 BELLVIEW RD	MC LEAN	VA	22102
ABDOW SARAH M TTEE OF SARAH M ABDOW TR	334-14.13-69.00	131 COLUMBIA AV	2792 THAXTON LN	OAKTON	VA	22124
RUSSELL CRAIG P TRUSTEE	334-14.13-70.00	133 COLUMBIA AV	56 TIDEWATER RD	REHOBOTH BEACH	DE	19971
BLOK AMY	334-14.13-71.00	135 COLUMBIA AV	402 VINEYARD LN	DOWNINGTOWN	PA	19335
LOWE COLLEEN A	334-14.13-72.00	137 COLUMBIA AV	137 COLUMBIA AVE	REHOBOTH BEACH	DE	19971
CHAPIN JOAN KAY TRUSTEE	334-14.13-73.00		2527 MIDWAY ST	FALLS CHURCH	VA	22046
RAVER SUE V JAMES M RAVER	334-14.13-74.00	138 COLUMBIA AV	2978 LEVEE DR	ODENTON	MD	21113
PETRONE JOSEPH A	334-14.13-75.00	136 COLUMBIA AV	136 COLUMBIA AVE	REHOBOTH BEACH	DE	19971

AJHJ LP	334-14.13-76.00	134 COLUMBIA AV	105 ROCK RD	EPHRATA	PA	17522
HALFMOON COTTAGE LLC	334-14.13-77.00	128 COLUMBIA AV	4406 RYNEX DRIVE	ALEXANDRIA	VA	22312
ZIMMERMAN MARK T & D LUCILLE	334-14.13-77.01	130 COLUMBIA AV	105 ROCK RD	EPHRATA	PA	17522
BORDIC ANDREW	334-14.13-78.00	122 COLUMBIA AV	201 EVELYN DR	KING OF PRUSSIA	PA	19406
TIEDEMANN CHARLES WELCH	334-14.13-79.00	2 DOVER ST	3200 44TH ST NW	WASHINGTON	DC	20016
MARTIN NINA H *FOR LIFE*	334-14.13-80.00	4 DOVER ST	111 FORBES ST	ANNAPOLIS	MD	21401
WAY MARSHA A & PATTI SHIELDS	334-14.13-81.00	6 DOVER ST	205 E RAYMOND AVE	ALEXANDRIA	VA	22301
SCHNECK HELEN B	334-14.13-82.00	8 DOVER ST	8 DOVER ST	REHOBOTH BEACH	DE	19971
GREEN RICHARD B TTEE OF REV TR	334-14.13-83.00	12 DOVER ST	12 DOVER ST	REHOBOTH BEACH	DE	19971
LEADER MARTHA L & ELIZABETH A	334-14.13-92.00	1 FOURTH ST	235 HOLMECREST RD	JENKINTOWN	PA	19046
GINGERBEAD LLC	334-14.13-93.00	114 HENLOPEN AV	114 HENLOPEN AVE	REHOBOTH BEACH	DE	19971
KLACIK GARY & ANNE	334-14.17-1.00	142 COLUMBIA AV	5331 43RD ST NW	WASHINGTON	DC	20015
DUNCAN DOUGLAS G & JENNIFER	334-14.17-10.00	68 KENT ST	68 KENT ST	REHOBOTH BEACH	DE	19971
TRILLING ELIZABETH ANN	334-14.17-11.00	70 KENT ST	70 KENT ST	REHOBOTH BEACH	DE	19971
LATSIOS STEVEN G	334-14.17-12.00	72 KENT ST	1411 ELLIS RD	ANNAPOLIS	MD	21403
JAFARI MAJED L & ELIZABETH H	334-14.17-13.00	74 KENT ST	305 10TH ST S #2106	ARLINGTON	VA	22202
HINES SCOTT M	334-14.17-13.01	76 KENT ST	1213 S CURLEY ST	BALTIMORE	MD	21224
BERTRAND FRANCIS PAUL & CATHERINE	334-14.17-14.00	78 KENT ST	2308 TROTT AVE	VIENNA	VA	22181
PLANTE CHARLES J	334-14.17-15.00	8 FIFTH ST	8 FIFTH STREET	REHOBOTH BEACH	DE	19971
THOMPSON BRAD	334-14.17-16.00	83 SUSSEX ST	3707 SW 4TH PL	GAINESVILLE	FL	32607
GIS TIEBACK	334-14.17-17.00	79 SUSSEX ST				
REHOBOTH TOWN OF	334-14.17-2.00			REHOBOTH BEACH	DE	19971
HAVEN JAMES PATRICK TTEE OFJAMES	334-14.17-31.00		1306 SPRINGVALE DR	BEL AIR	MD	21015
MANGANARO-ENRIGHT RENEE	334-14.17-31.01	82 SUSSEX ST	551 OSPREY POINT RD	CROWNSVILLE	MD	21032
CAGGIANO & CAGGIANO LLC	334-14.17-32.00	401 REHOBOTH AV	17323 OCEAN ONE PLAZA	LEWES	DE	19958
ANTEZANA NILS & GLADYS S	334-14.17-32.01		1120 N SHORE DR NE APT 1005	SAINT PETERSBURG	FL	33701
UNITED STATES OF AMERICA	334-19.00-173.00	520 REHOBOTH AV	PO BOX 2000	GEORGETOWN	DE	19947

Attachment D:

Disposal Site Information

DSWA
DELAWARE SOLID WASTE AUTHORITY

Richard P. Watson P.E., BCEE
Chief Executive Officer

Robin M. Roddy P.E., BCEE
Chief Operating Officer

Board Of Directors

Gerard L. Esposito
Chairman

Timothy P. Sheldon
Vice Chairman

Tonda L. Parks
Norman D. Griffiths

A. Temple Carter III
William J. Riddle

Michael R. Paraskewich, Jr., Ph.D, P.E.

May 20, 2025

Ms. Joni Reich
Town Mayor
Town of Henlopen Acres
104 Tidewaters
Henlopen Acres, DE 19971

Re: Special Waste Approval: Silty Clay Loam
Special Waste Approval Number: **ssw25.029**

Dear Ms. Reich:

I have received your special waste application dated May 19, 2025, and analytical testing dated May 16, 2025. Delaware Solid Waste Authority (DSWA) approves your request to deliver silty clay loam accumulated organic material. The material will be accepted at the Southern Solid Waste Management Center (SSWMC) located in Georgetown. This material must be delivered in segregated loads, not mixed with other waste and delivered before 1:00 p.m. Wastes not accurately represented by the information submitted in the special waste application or as stipulated in the DSWA *Special Waste Policy* may be rejected.

A copy of this approval letter must accompany each load of waste delivered to SSWMC. This approval expires on May 31, 2026.

If you have any questions, please feel free to contact me at 302-875-3448.

Sincerely,

Justin Wagner, P.E., BCEE
Senior Facility Manager

FOR DSWA USE ONLY

WM initials: _____

Delivery Date: _____

Expiration Date: _____

Tonnage: _____

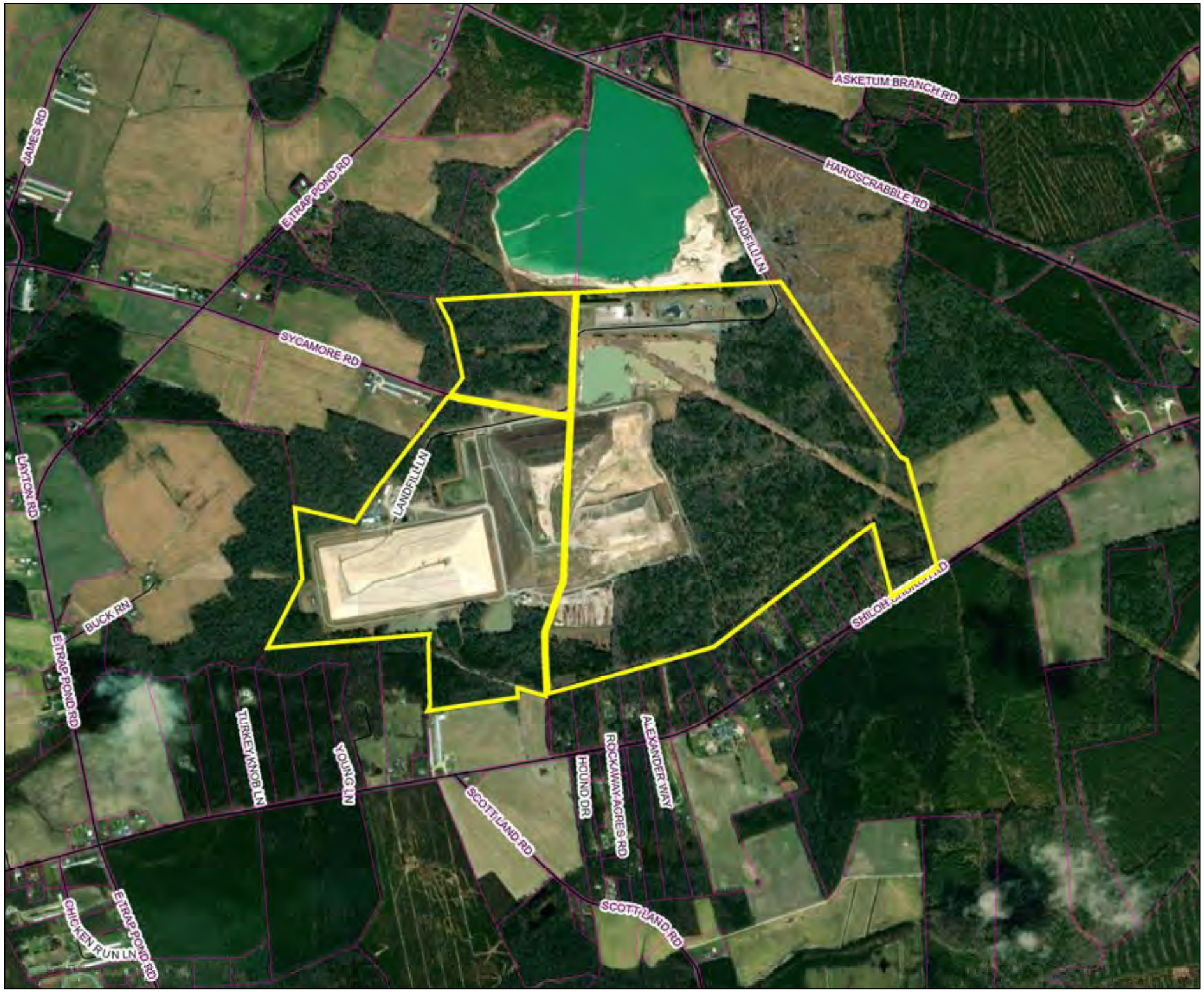
Ticket #: _____

Acct/Truck #: _____

cc: Lyle de la Rosa
Jason M. Munyan, P.E., BCEE
Adolf A. Korosec
Daniel J. Urban
Weighmasters
Compliance
Foremen

ssw25.029

Sussex County



PIN:	232-9.00-19.00
Owner Name	DELAWARE SOLID WASTE AUTHORITY
Book	0
Mailing Address	1128 S. BRADFORD STREE
City	DOVER
State	DE
Description	E W/RT 442
Description 2	2700' S/RT 20
Description 3	24000
Land Code	

Tax Parcels

Streets

County Boundaries

World Imagery

Low Resolution 15m Imagery

High Resolution 60cm Imagery

High Resolution 30cm Imagery

Citations

4.8m Resolution Metadata

1:18,056

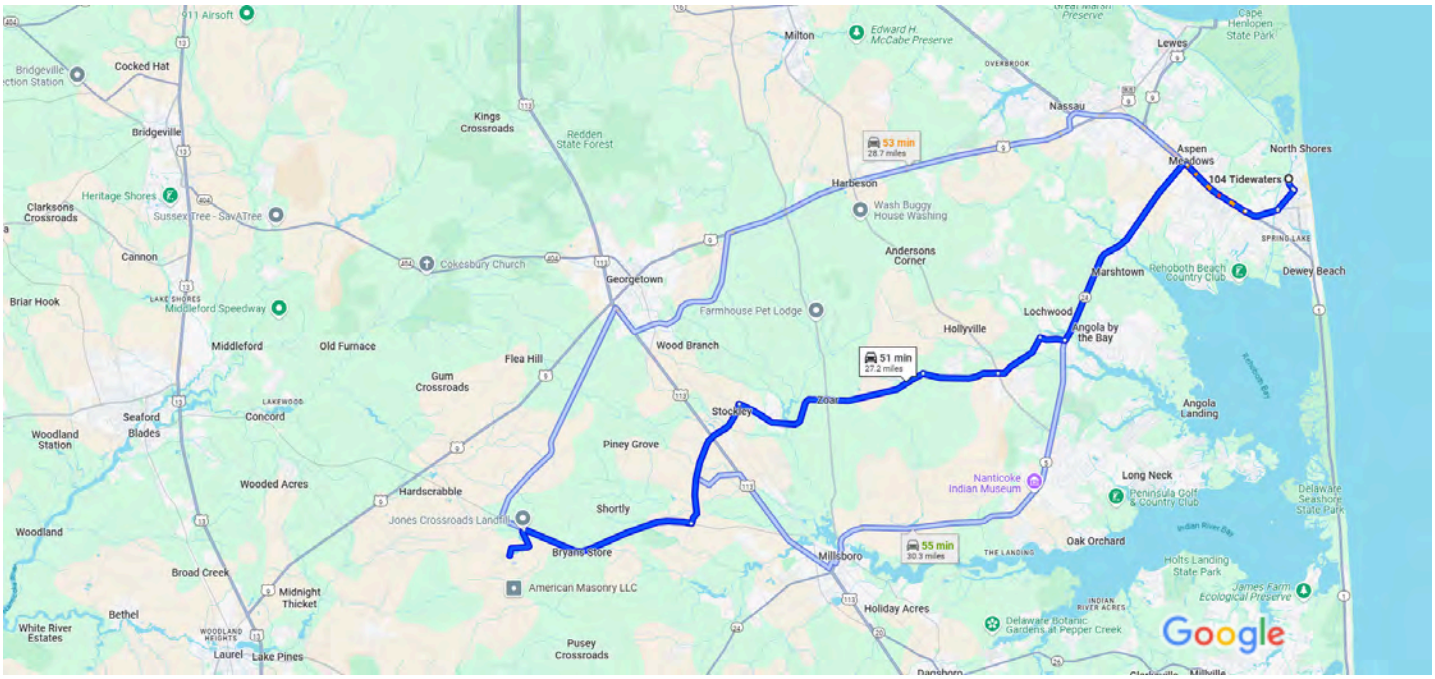
0 0.225 0.45 0.9 mi

0 0.35 0.7 1.4 km

April 22, 2025

Google Maps

104 Tidewaters, Rehoboth Beach, DE 19971 Drive 27.2 miles, 51 min to Delaware Solid Waste Authority, 28560 Landfill Ln, Georgetown, DE 19947



Map data ©2025 Google 2 mi

104 Tidewaters
Rehoboth Beach, DE 19971

Take Dodds Ln and Columbia Ave to DE-1A/Rd 15/Rehoboth Ave in Rehoboth Beach

4 min (1.0 mi)

1. Head southwest on Tidewaters toward Dodds Ln

154 ft

2. Turn left onto Dodds Ln

0.3 mi

3. Continue onto 2nd St

266 ft

4. Turn right onto Columbia Ave

0.6 mi

5. Turn right toward DE-1A/Rd 15/Rehoboth Ave

194 ft

Take DE-24 W to Rd 48/Hollymount Rd in Harbeson

15 min (8.2 mi)

6. Merge onto DE-1A/Rd 15/Rehoboth Ave
   Continue to follow DE-1A/Rd 15

0.8 mi

7. Merge onto DE-1 N

8. Use the left 2 lanes to turn left onto DE-1D/L 24 W — 1.9 mi

Continue to follow DE-24 W

5.5 mi

Take Zoar Rd and Rd 432 to State Rd 20 in Millsboro

20 min (12.5 mi)

9. Turn right onto Rd 48/Hollymount Rd

0.6 mi

10. Turn left onto Rd 302/Phillips Branch Rd

Continue to follow Phillips Branch Rd

1.4 mi

11. Continue onto Rd 302/Harmons Hill Rd

1.9 mi

12. Slight left onto Zoar Rd

5.2 mi

13. Turn left onto Rd 432/Gov Stockley Rd

Continue to follow Rd 432

3.4 mi

14. Turn right onto State Rd 20

6 min (4.4 mi)

15. Turn left onto Landfill Ln

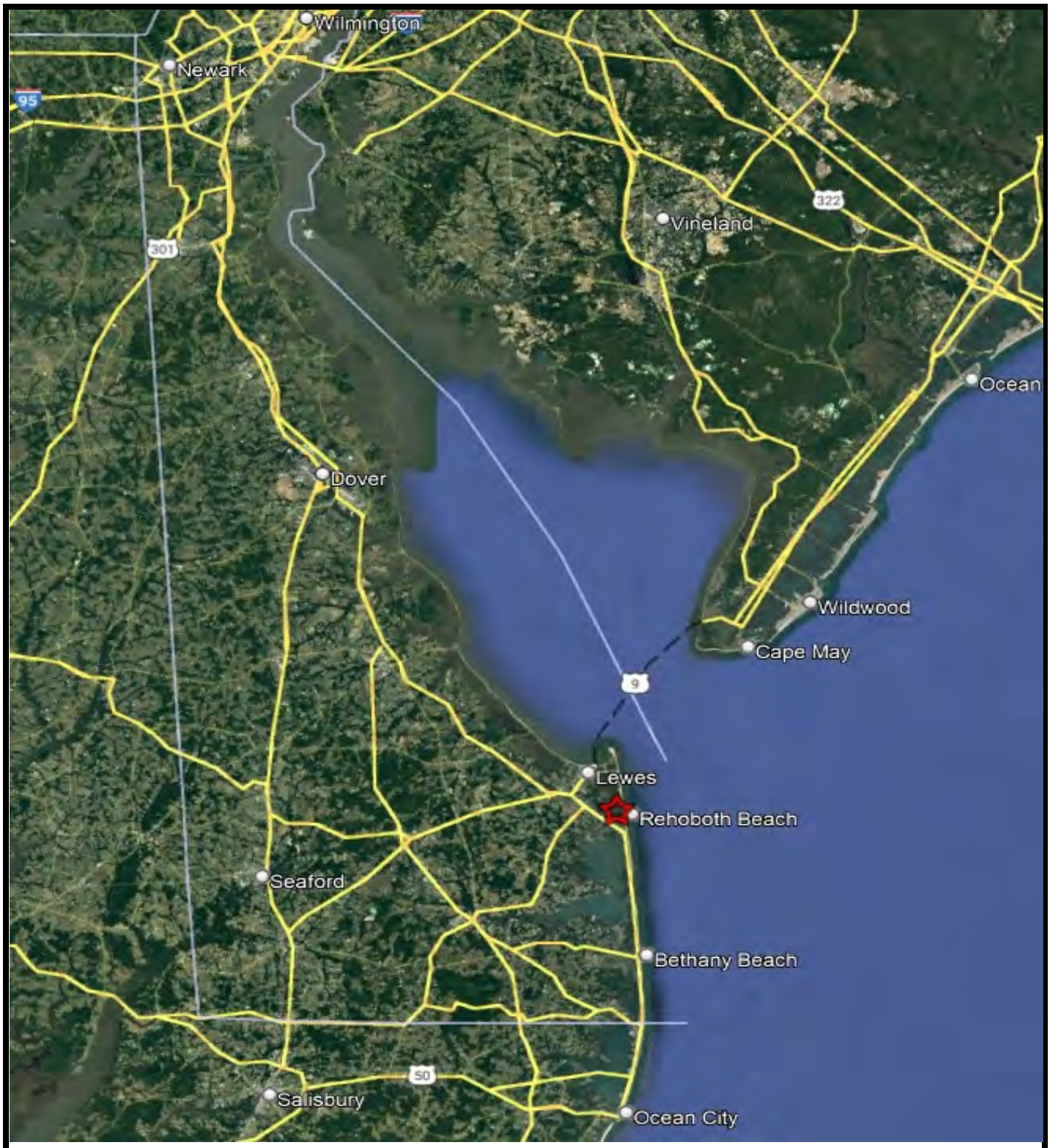
4 min (1.1 mi)

Delaware Solid Waste Authority

28560 Landfill Ln, Georgetown, DE 19947

Attachment A:

Subject Property Maps and Diagrams



Note: This image was obtained through aerial photograph via Google Earth

Envirotech
ENVIRONMENTAL CONSULTING, INC.
Providing Environmental Solutions

Envirotech Environmental Consulting, Inc.
17605 Nassau Commons Boulevard, Unit D
Lewes, DE 19958
Phone: (302) 684-5201 Fax: (302) 684-5204

Henlopen Acres Marina: Overall Location
104 Tidewaters, Rehoboth Beach, Delaware 19971, Sussex County
Tax Map ID: 334-14.09-10.00

DATE: 5/21/25	REF NUMBER: 34547
DRAWN BY: NRW	SCALE: As shown
CHECKED BY: TAF	FIGURE NO: 1
PROJECT: Dredging Project	SHEET 1 OF 6

Note: This image was obtained through aerial photograph via Google Earth

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ENVIRONMENTAL CONSULTING, INC.
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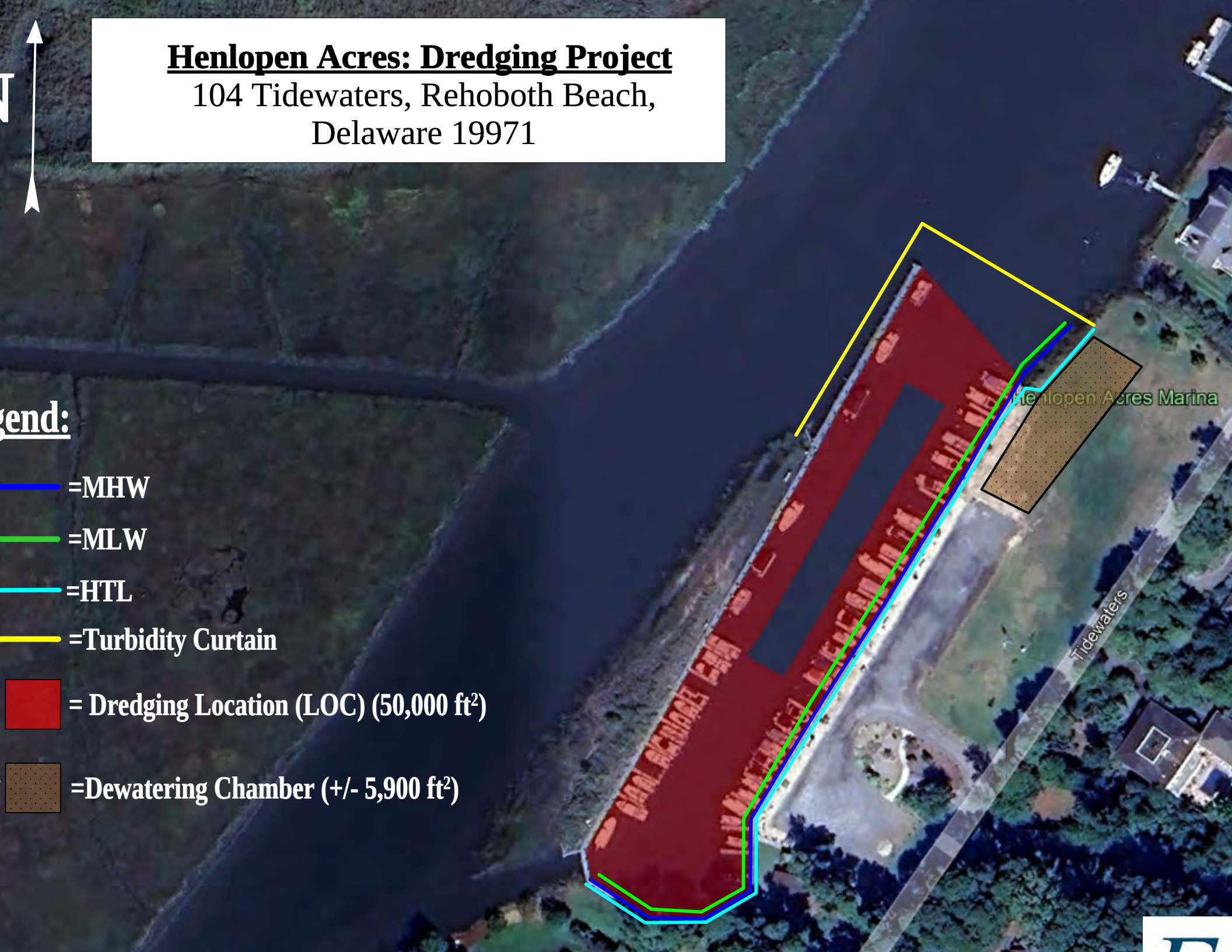
17605 Nassau Commons Boulevard, Unit D
Lewes, DE 19958
Phone: (302) 684-5201 Fax: (302) 684-5204

Henlopen Acres Marinia: Project Location
104 Tidewaters, Rehoboth Beach, Delaware 19971, Sussex County
Tax Map ID: 334-14.09-10.00

DATE: 5/21/25	REF NUMBER: 34547
DRAWN BY: NRW	SCALE: As shown
CHECKED BY: TAF	FIGURE NO: 2
PROJECT: Dredging Project	SHEET 2 OF 6

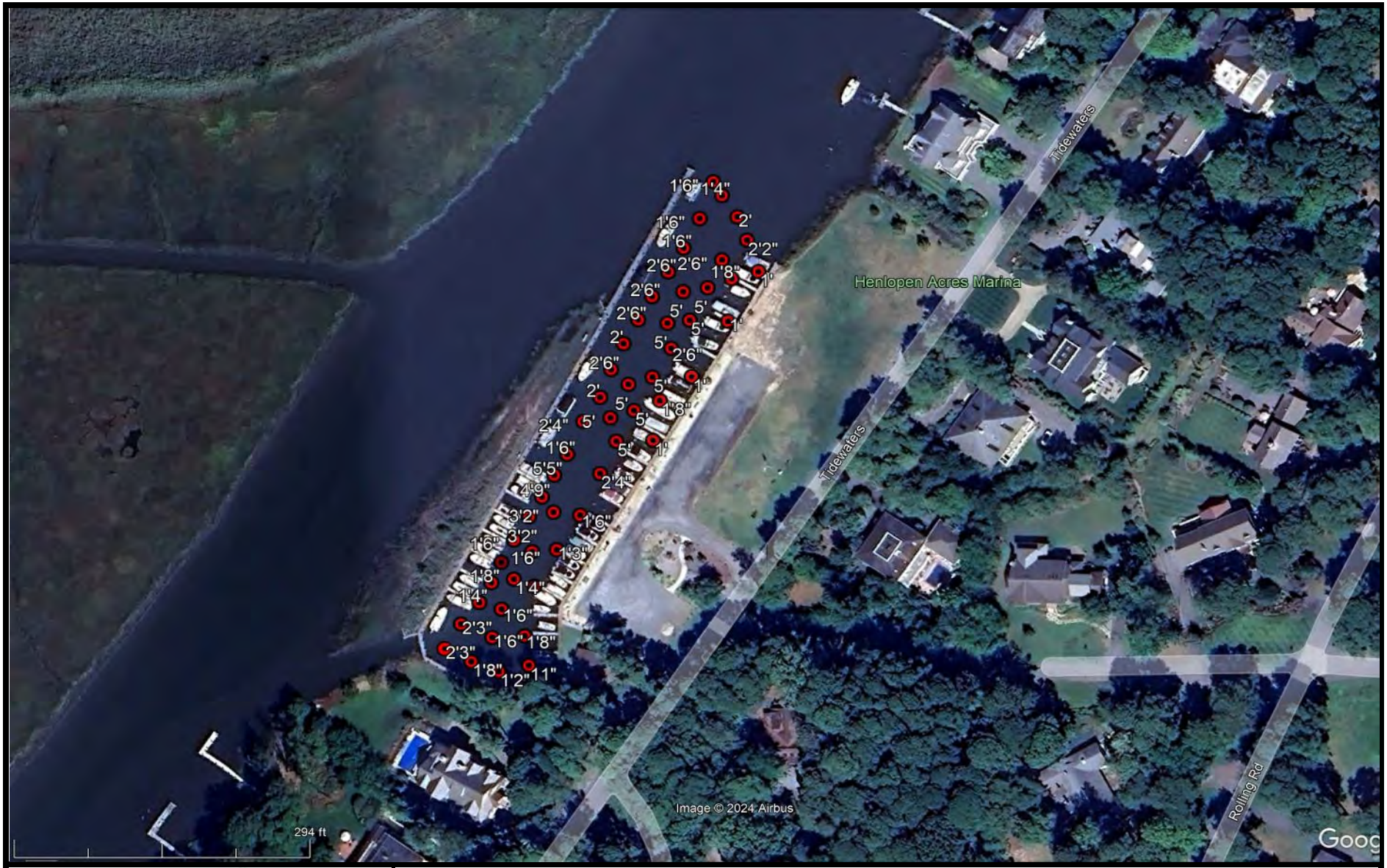
Henlopen Acres: Dredging Project

104 Tidewaters, Rehoboth Beach, Delaware 19971



Legend:

- =MHW
- =MLW
- =HTL
- =Turbidity Curtain
- = Dredging Location (LOC) (50,000 ft²)
- =Dewatering Chamber (+/- 5,900 ft²)



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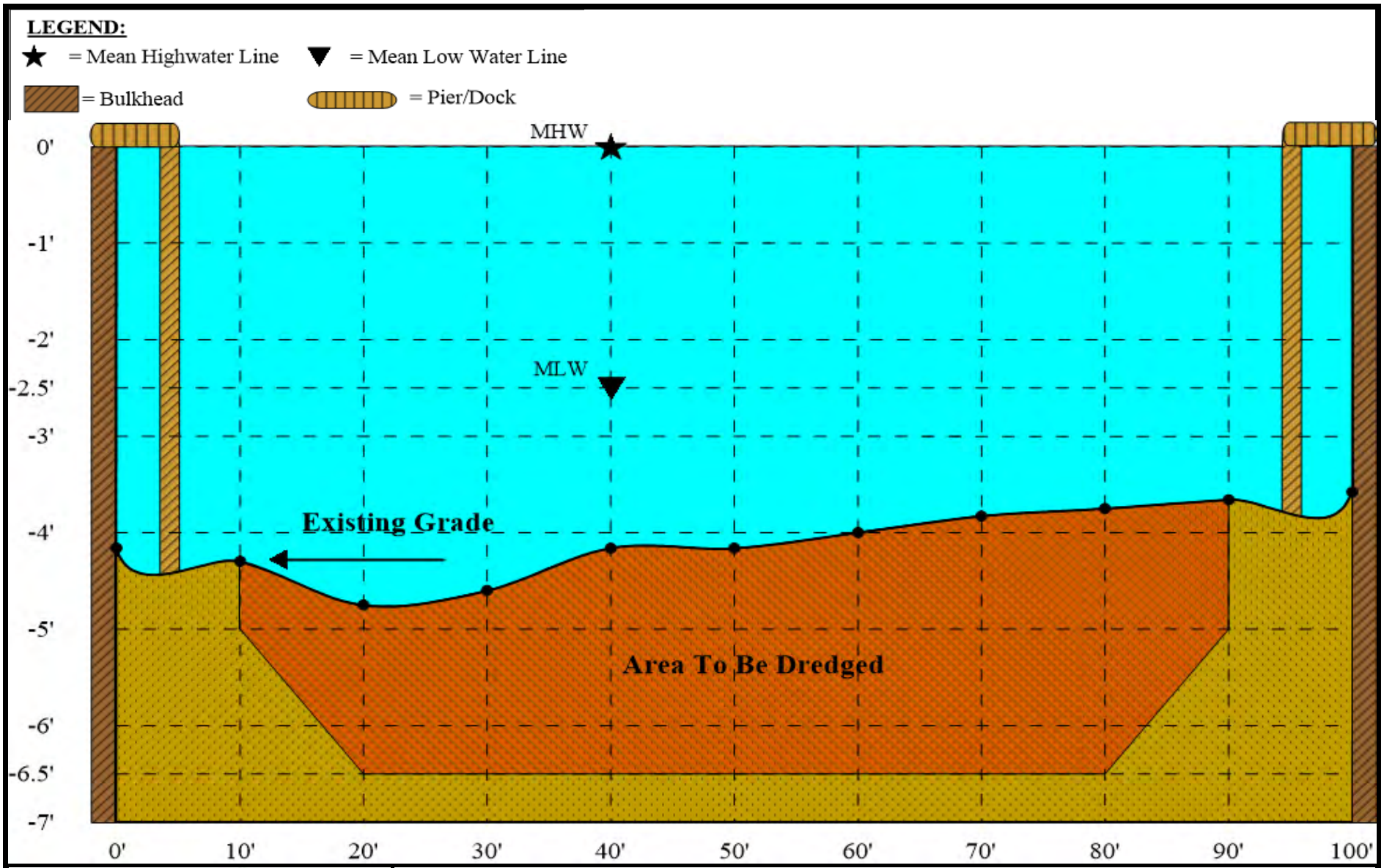
Envirotech Environmental Consulting, Inc. 17605 Nassau Commons Boulevard, Unit D Lewes, DE 19958
Phone: (302) 684-5201 Fax: (302) 684-5204

Henlopen Acres Marina: Depth Measurement Map (MLWL)
104 Tidewaters, Rehoboth Beach, Delaware 19971, Sussex County
Tax Map ID: 334-14.09-10.00

DATE: 5/21/2025	REF NUMBER: 34547
DRAWN BY: NRW	SCALE: As shown
CHECKED BY: TAF	FIGURE NO:
PROJECT: Dredging Project	SHEET 4 OF 6



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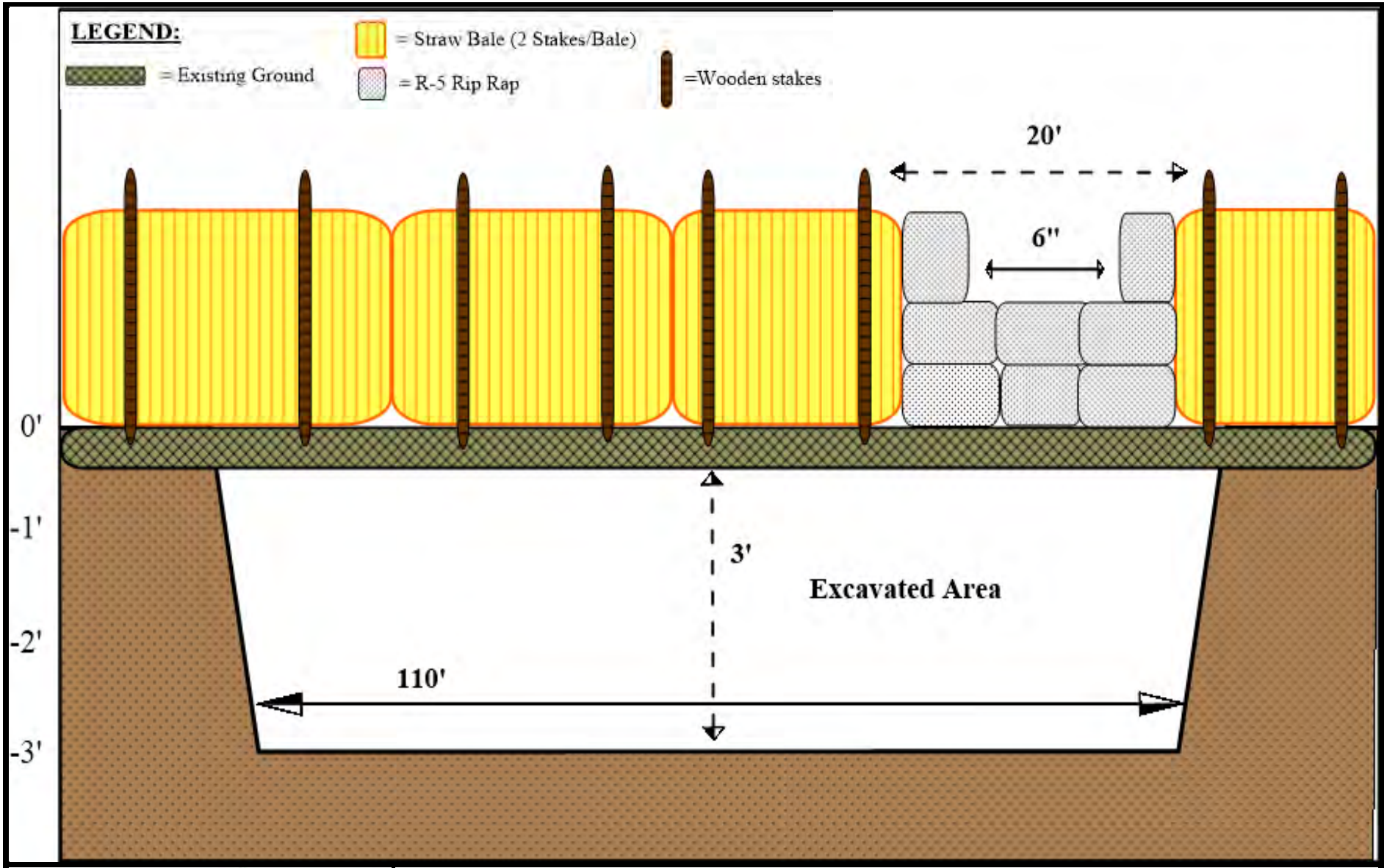
Phone: (302) 684-5201 Fax: (302) 684-5204

Henlopen Acres Marina: Cross Section
104 Tidewaters, Rehoboth Beach, Delaware 19971, Sussex County
Tax Map ID: 334-14.09-10.00

DATE: 5/21/2025	REF NUMBER: 34547
DRAWN BY: NRW	SCALE: As shown
CHECKED BY:	FIGURE NO:
PROJECT: Dredging Project	SHEET 5 OF 6



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Phone: (302) 684-5201 Fax: (302) 684-5204

Henlopen Acres Marina: Dewatering Chamber Cross Section
104 Tidewaters, Rehoboth Beach, Delaware 19971, Sussex County
Tax Map ID: 334-14.09-10.00

DATE: 5/21/2025	REF NUMBER: 34547
DRAWN BY: NRW	SCALE: As shown
CHECKED BY: TAF	FIGURE NO: 6
PROJECT: Dredging Project	SHEET 6 OF 6

U.S. Fish and Wildlife Service
National Wetlands Inventory

Town of Henlopen Acres Marina

May 1, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

REHOBOTH BEACH QUADRANGLE
DELAWARE-SUSSEX CO.
7.5-MINUTE SERIES

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 18S
10 000-foot ticks: Delaware Coordinate System of 1983

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, June 2011
Roads..... HERE, ©2013
Names.....GNIS, 2013
Hydrography.....National Hydrography Dataset, 2011
Contours.....National Elevation Dataset, 2013
Boundaries.....Multiple sources; see metadata file 1972 - 2013

MN
11° 57'
212 MILS
GN
0° 2'
1 MILS
UTM GRID AND 2014 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
VH
Grid Zone Designation
18S

SCALE 1:24 000

KILOMETERS: 1 0.5 0 1 2
METERS: 1000 500 0 1000 2000
MILES: 1 0.5 0 1
FEET: 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.16

DELAWARE
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

1 Lewes
2 Cape Henlopen
3
4 Fairmount
5
6 Frankford
7 Bethany Beach
8
ADJOINING QUADRANGLES

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

REHOBOTH BEACH, DE
2014

NSN 7643016236021 4
NGA REF NO. USGSX24K37563

Attachment B:

Soil Assessment

Mid-Atlantic
Environmental Laboratories, Inc.
30 Lukens Drive, Suite A
New Castle, DE 19720
Phone: 302-654-1340 / TOLL FREE: 877-654-1340
www.maelinc.com
mael@maelinc.com

Analytical Report

Project Name:	Henlopen Acres
MAEL Job Number:	62398
Client:	Envirotech Environmental Consulting, Inc 17605 Nassau Commons Blvd, Unit D Lewes, DE 19958
Contact Name:	Lyle de la Rosa
Date Received:	5/9/2025
Date Reported:	5/16/2025

DE Certification - C14DE02801E
MD Certification - 292

Mid-Atlantic Environmental Laboratories, Inc.

ANALYTICAL REPORT

Project Name: Henlopen Acres

Lab Project #: 62398

Lab Sample #: 62398-1

Client Sample ID: 1

Date Sampled: 5/6/2025 12:00 PM

Sampled By: LR

Sample Matrix: Solid

Sample Type: Composite

Analyte	CASRN	Result	Q	Units	Method	RL	Analyst	Date / Time Analysis
BTEX - Non-aqueous								
Benzene	71-43-2	ND		mg/kg	8260D	0.005	TA	5/14/2025 2:45 PM
Ethylbenzene	100-41-4	ND		mg/kg	8260D	0.005	TA	5/14/2025 2:45 PM
Toluene	108-88-3	ND		mg/kg	8260D	0.005	TA	5/14/2025 2:45 PM
Xylenes, Total	1330-20-7	ND		mg/kg	8260D	0.015	TA	5/14/2025 2:45 PM
Ignitability								
Ignitability		No		Y/N	1030		MB	5/12/2025 5:38 PM
Paint Filter Test / Free Liquids								
Paint Filter Test / Free Liquids		No		Y/N	9095B		MB	5/12/2025 4:56 PM
PCBs - Non-aqueous								
PCB-1016	12674-11-2	ND		mg/kg	8082A	0.025	JG	5/15/2025 8:21 PM
PCB-1221	11104-28-2	ND		mg/kg	8082A	0.025	JG	5/15/2025 8:21 PM
PCB-1232	11141-16-5	ND		mg/kg	8082A	0.025	JG	5/15/2025 8:21 PM
PCB-1242	53469-21-9	ND		mg/kg	8082A	0.025	JG	5/15/2025 8:21 PM
PCB-1248	12672-29-6	ND		mg/kg	8082A	0.025	JG	5/15/2025 8:21 PM
PCB-1254	11097-69-1	ND		mg/kg	8082A	0.025	JG	5/15/2025 8:21 PM
PCB-1260	11096-82-5	ND		mg/kg	8082A	0.025	JG	5/15/2025 8:21 PM
PCB-1262	37324-23-5	ND		mg/kg	8082A	0.025	JG	5/15/2025 8:21 PM
PCB-1268	11100-14-4	ND		mg/kg	8082A	0.025	JG	5/15/2025 8:21 PM
Percent Moisture/Percent Solid								
Total Moisture		39.460		%	2540B	0.1000	JG	5/12/2025 12:42 PM
pH - non-aqueous								
Corrosivity (pH)		7.31		S.U.	9045D		MB	5/13/2025 7:48 PM
SCM pH measured in water at °C		24.1			9045D		MB	5/13/2025 7:48 PM
Reactive Cyanide								
Reactive Cyanide	57-12-5	ND		mg/kg	7.3.3.2	0.20	AAM	5/13/2025 12:50 PM

ANALYTICAL REPORT

Project Name: Henlopen Acres

Lab Project #: 62398

Lab Sample #: 62398-1

Client Sample ID: 1

Date Sampled: 5/6/2025 12:00 PM

Sampled By: LR

Sample Matrix: Solid

Sample Type: Composite

Analyte	CASRN	Result	Q	Units	Method	RL	Analyst	Date / Time Analysis
Reactive Sulfide								
Reactive Sulfide	18496-25-8	ND		mg/kg	7.3.4.2	0.20	AAM	5/13/2025 12:50 PM
Sulfate - non-aqueous								
Sulfate	- - - - -	ND		mg/kg	9038	25.0	AAM	5/12/2025 12:55 PM
TCLP Herbicides								
2,4-D	94-75-7	ND		mg/L	1311/8151A	0.002	JG	5/16/2025 3:23 AM
2,4,5-TP (Silvex)	93-72-1	ND		mg/L	1311/8151A	0.002	JG	5/16/2025 3:23 AM
TCLP Mercury								
Mercury	7439-97-6	ND		mg/L	1311/7470A	0.001	DS	5/16/2025 11:42 AM
TCLP Metals								
Arsenic	7440-38-2	ND		mg/L	1311/6010D	0.05	DS	5/15/2025 2:50 PM
Barium	7440-39-3	ND		mg/L	1311/6010D	0.05	DS	5/15/2025 2:50 PM
Cadmium	7440-43-9	ND		mg/L	1311/6010D	0.05	DS	5/15/2025 2:50 PM
Chromium	7440-47-3	ND		mg/L	1311/6010D	0.05	DS	5/15/2025 2:50 PM
Lead	7439-92-1	ND		mg/L	1311/6010D	0.05	DS	5/15/2025 2:50 PM
Selenium	7782-49-2	ND		mg/L	1311/6010D	0.05	DS	5/15/2025 2:50 PM
Silver	7440-22-4	ND		mg/L	1311/6010D	0.05	DS	5/15/2025 2:50 PM
TCLP Pesticides								
Chlordane	57-74-9	ND		mg/L	1311/8081B	0.00100	JG	5/15/2025 9:52 PM
Endrin	72-20-8	ND		mg/L	1311/8081B	0.00010	JG	5/15/2025 9:52 PM
gamma BHC (Lindane)	58-89-9	ND		mg/L	1311/8081B	0.00005	JG	5/15/2025 9:52 PM
Heptachlor	76-44-8	ND		mg/L	1311/8081B	0.00005	JG	5/15/2025 9:52 PM
Heptachlor epoxide	1024-57-3	ND		mg/L	1311/8081B	0.00005	JG	5/15/2025 9:52 PM
Methoxychlor	72-43-5	ND		mg/L	1311/8081B	0.00050	JG	5/15/2025 9:52 PM
Toxaphene	8001-35-2	ND		mg/L	1311/8081B	0.00100	JG	5/15/2025 9:52 PM
TCLP Semivolatiles								
1,4-Dichlorobenzene	106-46-7	ND		mg/L	1311/8270E	0.10	WW	5/15/2025 6:54 PM
2,4-Dinitrotoluene	121-14-2	ND		mg/L	1311/8270E	0.10	WW	5/15/2025 6:54 PM
Hexachlorobenzene	118-74-1	ND		mg/L	1311/8270E	0.10	WW	5/15/2025 6:54 PM
Hexachlorobutadiene	87-68-3	ND		mg/L	1311/8270E	0.10	WW	5/15/2025 6:54 PM

ANALYTICAL REPORT

Project Name: Henlopen Acres

Lab Project #: 62398

Lab Sample #: 62398-1

Client Sample ID: 1

Date Sampled: 5/6/2025 12:00 PM

Sampled By: LR

Sample Matrix: Solid

Sample Type: Composite

Analyte	CASRN	Result	Q	Units	Method	RL	Analyst	Date / Time Analysis
TCLP Semivolatiles								
Hexachloroethane	67-72-1	ND		mg/L	1311/8270E	0.10	WW	5/15/2025 6:54 PM
2-Methylphenol	95-48-7	ND		mg/L	1311/8270E	0.10	WW	5/15/2025 6:54 PM
3- & 4- Methylphenol	61379-65-5	ND		mg/L	1311/8270E	0.10	WW	5/15/2025 6:54 PM
Nitrobenzene	98-95-3	ND		mg/L	1311/8270E	0.10	WW	5/15/2025 6:54 PM
Pentachlorophenol	87-86-5	ND		mg/L	1311/8270E	0.10	WW	5/15/2025 6:54 PM
Pyridine	110-86-1	ND		mg/L	1311/8270E	0.10	WW	5/15/2025 6:54 PM
2,4,5-Trichlorophenol	95-95-4	ND		mg/L	1311/8270E	0.10	WW	5/15/2025 6:54 PM
2,4,6-Trichlorophenol	88-06-2	ND		mg/L	1311/8270E	0.10	WW	5/15/2025 6:54 PM
TCLP Volatiles								
Benzene	71-43-2	ND		mg/L	1311/8260D	0.02	AAM	5/15/2025 8:27 PM
Carbon Tetrachloride	56-23-5	ND		mg/L	1311/8260D	0.02	AAM	5/15/2025 8:27 PM
Chlorobenzene	108-90-7	ND		mg/L	1311/8260D	0.02	AAM	5/15/2025 8:27 PM
Chloroform	67-66-3	ND		mg/L	1311/8260D	0.02	AAM	5/15/2025 8:27 PM
1,2-Dichloroethane	107-06-2	ND		mg/L	1311/8260D	0.02	AAM	5/15/2025 8:27 PM
1,1-Dichloroethene	75-35-4	ND		mg/L	1311/8260D	0.02	AAM	5/15/2025 8:27 PM
Methyl Ethyl Ketone (MEK)	78-93-3	ND		mg/L	1311/8260D	0.10	AAM	5/15/2025 8:27 PM
Tetrachloroethene (PCE)	127-18-4	ND		mg/L	1311/8260D	0.02	AAM	5/15/2025 8:27 PM
Trichloroethene (TCE)	79-01-6	ND		mg/L	1311/8260D	0.02	AAM	5/15/2025 8:27 PM
Vinyl Chloride	75-01-4	ND		mg/L	1311/8260D	0.02	AAM	5/15/2025 8:27 PM
Total Petroleum Hydrocarbons (C-40) - non-aqueous								
Total Petroleum Hydrocarbons (C-40)		ND		mg/kg	8015D	50.0	MB	5/12/2025 9:55 PM

Mid-Atlantic
Environmental Laboratories, Inc.

ANALYTICAL REPORT

Project Name: Henlopen Acres

Lab Project #: 62398

Lab Sample #: 62398-1

Client Sample ID: 1

Date Sampled: 5/6/2025 12:00 PM

Sampled By: LR

Sample Matrix: Solid

Sample Type: Composite

Akhter Mehmood

Lab Director

DE Certification - C14DE02801E

MD Certification - 292

ANALYTICAL REPORT

Qualifiers

B	Detected in method blank	E	Detected above calibration limits, result estimated
H	Parameter run out of hold time	J	Detected below PQL, result estimated
P	Incorrect Preservative	R	See report notes
SUB	Sub-Contracted to Certified Lab		

Abbreviations

ppm	Parts Per Million (mg/kg or mg/L)	PQL	Practical Quantitation Level
ppb	Parts Per Billion (ug/kg or ug/L)	attached	Subcontract Lab Report Attached
g	gram (1000 g = 1Kg)	ND	Not Detected
kg	kilogram (1 kg = 1000 g)	NA	Not Applicable
mg	milligram (1000 mg = 1 g)	NS	Not Spiked
mg/kg	milligram per kilogram (ppm)	NP	No PCB pattern detected
ug/kg	microgram per kilogram (ppb)	NR	Not Requested
ug	microgram (1000 ug = 1 mg)	NI	Not Ignitable
L	liter (1 L = 1000 mL)	NFL	No Free Liquid
ml	milliliter (1000 ml = 1 L)	NTU	Nephelometric Turbidity Units
ul	microliter (1000 ul = 1 ml)	S.U.	Standard Unit
mg/L	milligram per liter (ppm)	RPD	Relative Percent Difference
ug/L	microgram per liter (ppb)	RSD	Relative Standard Deviation
ng/kg	nanogram per kilogram	MS/MSD	Matrix Spike/Matrix Spike Duplicate
BTU/lb	British Thermal Units per pound	LCS	Laboratory Control Sample
CFU/mL	Colony Forming Units per milliliter	BS	Blank Spike (Method Spike)
MPN/100 ml	Most Probable Number per 100 mL	o F	degrees Fahrenheit
mS/cm	milli Siemans per centimeter	o C	degrees Celsius
uS/cm	micro Siemans per centimeter	umhos	Conductivity Units
ug/sq cm	microgram per square centimeter	ohms	Resistivity Units
ug/sq ft	microgram per square feet	RL	Reporting Limit
ug/wipe	microgram per wipe		

Note: All non-aqueous samples, with the exception of oils, wipes, and paint chips are dry weight corrected

PQL-The Practical Quantitation Limit (PQL) is the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

RL-Reporting Limit is greater than or equal to PQL.

ENVIRONMENTAL CONSULTING, INC.
Providing Environmental Solutions

Town of Henlopen Acres
Attn: Ms. Joni Reich
104 Tidewaters
Rehoboth Beach, Delaware 19971

REFERENCE: Town of Henlopen Acres: Marina Dredging Project – Tidewaters Rehoboth Beach, Delaware 19971: Marine Sediment Analytical Report.

Dear Ms. Reich,

This report was completed in accordance with DNREC requirements related to Maintenance Dredging or Excavating guidance (Appendix R, Section 7) and Fill (Appendix H). The subject property is the man-made marina in The Town of Henlopen Acres Rehoboth Beach, DE 19971. This project includes the dredging the marina and under the docks at parcel #334-14.09-10.00, located in Rehoboth Beach, Delaware 19971. This will be maintenance dredging since a permit and prior work was completed in 2021. This report discusses the analytical findings from analysis of three (3) marine sediment samples collected from the bottom of the marina.

Observations and Findings from Marine Sediment Analysis

EECI staff was onsite on April 26, 2024 in order to collect two (2) marine sediment bottom samples from the Henlopen Acres marina. The samples were collected from the marina bottom using a weighted, spring-loaded, "Van Veen" grab sampler. The samples were hand delivered to AgroLabs in Harrington, DE by EECI staff. The sediment samples were analyzed for "complete soil fertility" and compared to DNREC Hazardous Substance Cleanup Act (HSCA) screening levels. Please refer to Table 1 for soil and marine sediment data. Additionally, the samples were analyzed with a hydrometer to determine texture composition of sediment (Table 2).

The screening levels for soil are primarily based on the United States Environmental Protection Agency (EPA) Regional Screening Levels (RSLs) for residential soil, with several exceptions. Soil background threshold values (BTVs) were calculated based on samples from Delaware background studies. For more information about these studies, please refer to the following documents: Statewide Soil Background Study: Report of Findings (DNREC, 2012), Report of Findings – PAH Background Study – New Castle, Kent, and Sussex Counties, Delaware (EA Engineering, 2014), and PAH Background Study and Calculation of Background Threshold Values – New Castle, Kent, and Sussex Counties, Delaware (EA Engineering, 2016). Screening levels for ecological sediment, surface water, and soil were added to the HSCA screening level table in January 2014. The sediment and surface water screening levels represent both freshwater and marine environments, and they were derived from the EPA Region III BTAG Screening Benchmarks for sediment and surface water, with several exceptions. Where the EPA Screening Benchmarks exceeds the Delaware Surface Water Quality Criteria for the Protection of Aquatic Life, then the Delaware Surface Water Quality Standard replaces the EPA Screening Benchmark as the screening level. The soil screening levels were mostly derived from the Risk Assessment Information System (RAIS); however, some levels were derived from the NOAA Screening Quick Reference Tables. Please note, there are not HSCA screening values for all constituents that were analyzed.

Initial Ecological Evaluation Screening Questions

1. Are any of the following ecologically sensitive areas (ECSA) present on-site or immediately adjacent to the site (i.e. share a property boundary)? If the answer is "YES," then additional ecological evaluation is necessary.
   A. Critical habitat, including breeding areas, migratory areas, and wintering areas for State or Federal designated endangered or threatened species, or habitat known to be used by designated, proposed, or under review endangered or threatened species (Reference: See address below). – **NO.** (See Attachment).
   B. Federal or State Park, Preserve, Forest, Wildlife Refuge or other Federal or State administered natural or recreational area, as well as other recognized parklands, open space, or other mapped natural areas managed

by local government, non-profit organizations, or others (Reference: Road Atlas or other commercially available maps). – **NO.** (See Attachment)

C. Coastal Barrier, both developed and undeveloped, including private and public beaches (Reference: USGS Topographic Maps, Road Atlas, or other commercially available maps). – **NO.**
D. Spawning, migration, and feeding areas critical for the maintenance of anadromous fish/shellfish species within river, lake, or coastal tidal waters (Reference: See address below). – **NO**. (See Attachment)
E. Any waterway (stream, river, lake, tidal waters), including associated wetlands, floodplains, and riparian zones (Reference: USGS Topographic Maps, FEMA Floodplain Maps, National Wetland Inventory Maps, Delaware Wetland Maps, Site Observations). – **YES, Lewes Rehoboth Canal.**
F. Recognized critical habitats for State listed species having the Delaware Natural Heritage Program Ranking of S1, S2, S3, S4, SU, SH, SX, and SE (Reference: See address below). – **NO.** (See Attachment)
G. Woodlands/forest in excess of 20 acres in size (Reference: Aerial photographs, site observations, USGS Topographic Maps). – **NO.** (See attachment)

2. Is the site within 2,000 feet of an ECSA listed in Question 1? If the answer is "YES," proceed with the following questions. If the answer to any of these questions is also "YES," then additional ecological evaluation is necessary.
   A. Is the site connected to the ECSA via open space, wooded area, agricultural land, perennial water body, or other natural corridor? – **YES, the Lewes Rehoboth Canal.**
   B. Does storm runoff from the site discharge via pipe or drainage swale directly to the ECSA? – **NO.**
   C. Is there evidence of soil erosion from the site? Note that evidence of this would include gulleys, washout features, etc. – **NO.**
3. Does the site support a sufficient area (e.g. greater than ¼ acre) of vegetation (exclusive of the typically maintained lawn and flowerbed landscaping) which could offer fauna either shelter or a food source? Note that evidence of this would include bird and wildlife sightings, burrows, nests, animal droppings, etc. If the answer is "YES," then additional ecological evaluation is necessary. – **NO.**
4. Is there any evidence of stressed vegetation, barren soil, dead animals, fish kills, or other ecological detriments at the site? If the answer is "YES," then additional ecological evaluation is necessary. – **NO.**

Table 1 – Analytical Data

	East Side	West Side	HSCA Screening Levels for Soil	HCSA Screening Levels for Ecological Sediment Maine
Nitrate	1.60 ppm	1.5 ppm	13,000	n/a
Ammonium	68.3 ppm	65.3 ppm	n/a	n/a
Phosphorus	68 ppm	60 ppm	n/a	n/a
Potassium	707 ppm	661 ppm	n/a	n/a
Calcium	2,236 ppm	1249 ppm	n/a	n/a
Magnesium	2,211 ppm	2043 ppm	n/a	n/a
Sulfur	884 ppm	659 ppm	n/a	n/a
Boron	4.14 ppm	3.94 ppm	1,600	n/a
Zinc	12.83 ppm	9.51 ppm	2,300	124
Manganese	8.2 ppm	9.2 ppm	2,100	n/a
Copper	0.55 ppm	0.35 ppm	310	18.7
Sodium	8,128 ppm	7398 ppm	n/a	n/a
Aluminum	497.1 ppm	494.8 ppm	51,200	n/a

Iron	368 ppm	437.4 ppm	74,767	n/a
-	-	-	-	-
pH	7	7.4	n/a	n/a
Soluble Salts (mmho/cm)	29.8	30.70	n/a	n/a
Organic Matter (%)	8.36	12.42	n/a	n/a

*All values are presented in parts per million (PPM) unless noted otherwise (1 PPM = 1 mg/kg)

Table 2 – Soil texture analysis

	Sand	Silt	Clay	Soil Texture
East side	27%	45%	28%	**Clay Loam**
West side	20%	52%	28%	**Silty Clay Loam**
Mean Average	23.5%	46.2%	28%	

Marine Sediment Analysis Summary

Human Health and Ecological Risk Assessment Guidelines were followed to ensure the dredged spoils will not present a risk to human health or potential for any ecological concerns. Multiple questions from the Ecological Evaluation Screening were answered with 'YES', therefore the samples were compared to HSCA screening levels for soil as well as Ecological Sediment Marine.

Analytical Results do not indicate any exceedances of the HCSA screening levels for soil or ecological sediment marine. Therefore, no further ecological evaluation is required for this project.

Please review this report in its entirety and contact EECI if you have any questions or concerns.

Thank you,

Todd Fritchman

Todd Fritchman
Lead Environmental Professional
17605 Nassau Commons Boulevard, Unit D
Lewes, Delaware 19958
Phone: 302.684.5201
Fax: 302.684.5204

CCR # 10/04/2023/32

AgroLab
Serving Agriculture and Soil Fertility Professionals

Account No. : 3570

Soil Analysis Report

Invoice No. : 1150983
Date Received : 05/21/2024
Date Analyzed: 05/22/2024
Lab Number : 11566

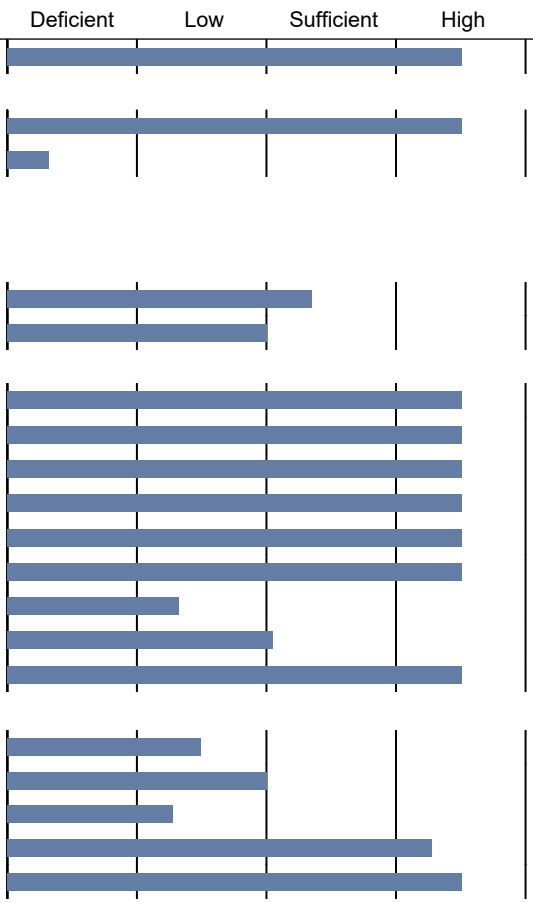
ENVIROTECH ENVIRONMENTAL CONSULT
17605 NASSAU COMMONS BLVD
LEWES DE 19958

Results For : NICK WRIGHT
Location : TOWN OF HENLOPEN ACRES
Sample ID : 1

Extraction Method: Mehlich 3

	Analysis
pH	7.0
Buffer pH	7.00
Soluble Salts, EC mmho/cm	29.80
Nitrate-N, ppm N	1.6
Nitrate-N, Lbs N/A	4.00
Depth	0 - 8 in
Ammonium-N ppm	68.3
Phosphorus, ppm P	68
P Saturation	25
UMD P FIV	76
Potassium, ppm K	707
Calcium, ppm Ca	2236
Magnesium, ppm Mg	2211
Sulfur, ppm S	884
Boron, ppm B	4.14
Zinc, ppm Zn	12.83
Manganese, ppm Mn pH sensitive	8.2
Copper, ppm Cu	0.55
Sodium, ppm Na	8128
CEC Sum of Cations, meq/100g	69.6
H % Saturation	4
K % Saturation	3
Ca % Saturation	16
Mg % Saturation	26
Na % Saturation	51
Organic Matter, %	8.36
Organic Matter (LOI @ 455 C), %	12.06
Est. Organic Carbon, %	4.85
Aluminum, ppm Al	497.1
Iron, ppm Fe	368.0

Sufficiency Levels



Reviewed By : L.D. Severson - AgroLab/Matrix S **5/24/2024** **Copy : 1**

Bus: 302/566-6094
Email: admin@agrolab.us
web site
www.agrolab.us
101 Clukey Dr.
Harrington, DE 19952

AgroLab
Serving Agriculture and Soil Fertility Professionals

Account No. : 3570

Soil Analysis Report

Invoice No. : 1150983
Date Received : 05/21/2024
Date Analyzed: 05/22/2024
Lab Number : 11566

ENVIROTECH ENVIRONMENTAL CONSULT
17605 NASSAU COMMONS BLVD
LEWES DE 19958

Results For : NICK WRIGHT
Location : TOWN OF HENLOPEN ACRES
Sample ID : 1

Extraction Method: Mehlich 3

USDA Soil Texture	Clay Loam
Sand, %	27
Silt, %	45
Clay, %	28

Bus: 302/566-6094
Email: admin@agrolab.us
web site
www.agrolab.us
101 Clukey Dr.
Harrington, DE 19952

AgroLab
Serving Agriculture and Soil Fertility Professionals

Account No. : 3570

Soil Analysis Report

Invoice No. : 1150983
Date Received : 05/21/2024
Date Analyzed: 05/22/2024
Lab Number : 11567

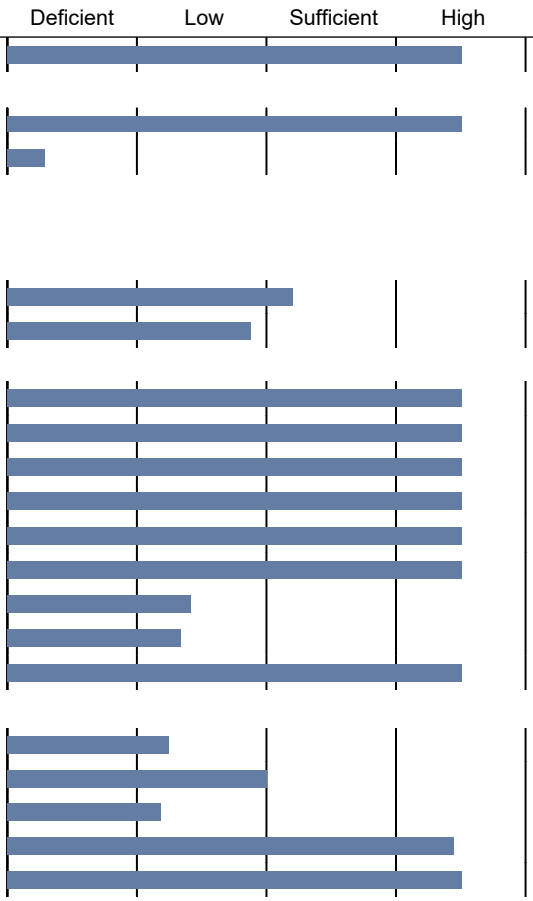
ENVIROTECH ENVIRONMENTAL CONSULT
17605 NASSAU COMMONS BLVD
LEWES DE 19958

Results For : NICK WRIGHT
Location : TOWN OF HENLOPEN ACRES
Sample ID : 2

Extraction Method: Mehlich 3

	Analysis
pH	7.4
Buffer pH	7.00
Soluble Salts, EC mmho/cm	30.70
Nitrate-N, ppm N	1.5
Nitrate-N, Lbs N/A	4.00
Depth	0 - 8 in
Ammonium-N ppm	65.3
Phosphorus, ppm P	60
P Saturation	22
UMD P FIV	67
Potassium, ppm K	661
Calcium, ppm Ca	1249
Magnesium, ppm Mg	2043
Sulfur, ppm S	659
Boron, ppm B	3.94
Zinc, ppm Zn	9.51
Manganese, ppm Mn pH sensitive	9.2
Copper, ppm Cu	0.35
Sodium, ppm Na	7398
CEC Sum of Cations, meq/100g	58.4
H % Saturation	2
K % Saturation	3
Ca % Saturation	11
Mg % Saturation	29
Na % Saturation	55
Organic Matter, %	9.11
Organic Matter (LOI @ 455 C), %	12.42
Est. Organic Carbon, %	5.28
Aluminum, ppm Al	494.8
Iron, ppm Fe	437.4

Sufficiency Levels



Reviewed By : L.D. Severson - AgroLab/Matrix S **5/24/2024** **Copy : 1**

Bus: 302/566-6094
Email: admin@agrolab.us
web site
www.agrolab.us
101 Clukey Dr.
Harrington, DE 19952

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ENVIROTECH ENVIRONMENTAL CONSULT
17605 NASSAU COMMONS BLVD
LEWES DE 19958

Results For : NICK WRIGHT
Location : TOWN OF HENLOPEN ACRES
Sample ID : 2

Extraction Method: Mehlich 3

USDA Soil Texture	Silty Clay Loam
Sand, %	20
Silt, %	52
Clay, %	28

Bus: 302/566-6094
Email: admin@agrolab.us
web site
www.agrolab.us
101 Clukey Dr.
Harrington, DE 19952

Attachment C:

Chain of Custody Form

Mid-Atlantic
Environmental Laboratories, Inc.
30 Lukens Drive, Suite A
New Castle, DE 19720
Phone: 302-654-1340 TOLL FREE 877-654-1340 Fax: 302-654-1058
www.midatlanticenvlabs.com
mael@midatlanticenvlabs.com

CHAIN OF CUSTODY

Lab Use Only
Job # 62398

Client Name: Envirotech	Invoice To:	**Sample On Ice** ☐ Yes ☑ No **Sample Disposal** ☐ Client ☐ MAEL	**Data Format Requested** ☐ Results Only ☑ QC Package ☐ NJRDD + Hazsite ☐ NJFDD + Hazsite ☐ MDE ☐ Excel Summary	**Report Format** ☐ Fax ☑ E-mail PDF ☐ Portal Posting Only
Address: 17605 Nassau Commons Boulevard Unit D	Purchase Order #:			
	Project Name: Henlopen Acres	**Site Location** ☐ NJ ☐ PA ☑ DE ☐ MD ☐ Other		
City, State, Zip: Lewes, DE 19958	Bottle Order # Quote #			
Contact Name: Lyle de la Rosa	**Regulatory Program** ☐ DERBCAP ☐ PA UST ☐ PA Clean Fill ☐ PA ACT II ☐ NJGWQC ☐ NJ SRP ☐ NJ UST ☐ MDE ☐ Site Specific ☐ Non regulatory ☐ Other (Specify): Failure to include regulatory program may result in PQLs incompatible to regulatory limit. If not specified, assumed to be non-regulatory.	**Turn Around Time** ☐ <24 Hours (Same Day) ☐ 24 Hours (Next Day) ☐ 48 Hours (2 Days) ☐ 72 Hours (3 Days) ☐ 96 Hours (4 Days) ☑ Standard (1 Week) ☐ 2 Weeks ☐ Other – Specify	Aqueous Samples Only: chlorinated source?	Requested Analysis attached
Phone # 302-684-5201				
Fax # 302-684-5204				
E-mail: lyle@envirotechecinc.com				
Remarks: List of Analytes Attached				

Laboratory Sample #	Client Sample ID	Sampling Info Date	Sampling Info Time	AM PM	Sampled By:	Sample Type Grab	Sample Type Comp	Matrix	# Cntrs		Analysis Requested
62398-1	1	5/6/25	12:00	PM	Lyle de la Rosa		Comp	Sediment		☐ Yes ☐ No	

Bottles Supplied By MAEL? Yes No	Logged By:		QA Reviewed:	Page 1 of 3	
Relinquished By: Lyle de la Rosa	Date: 5/8/25	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

All samples are disposed 30 days after receipt unless otherwise requested. By signing this Chain of Custody Agreement, customer expressly agrees to pay Mid-Atlantic Environmental Laboratories, Inc. for all changes reasonably incurred in connection with analysis and reporting of these samples. Please provide additional aqueous sample whenever possible in order to ensure there is sufficient sample for method QA/QC, as well as for any re-analysis that may be required.

NJ - DE003 nelac PA - 68-00565 DE certification MD certification

Attachment D:

State and Federal Letters

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

In Reply Refer To: 04/25/2024 18:19:32 UTC
Project code: 2024-0082123
Project Name: Town of Henlopen Acres

Federal Action Agency (if applicable):

Subject: Record of project representative's no effect determination for 'Town of Henlopen Acres'

Dear nick wright:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on April 25, 2024, for 'Town of Henlopen Acres' (here forward, Project). This project has been assigned Project Code 2024-0082123 and all future correspondence should clearly reference this number. **Please carefully review this letter.**

Ensuring Accurate Determinations When Using IPaC

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat Rangewide Determination Key (Dkey), invalidates this letter. ***Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.***

Determination for the Northern Long-Eared Bat

Based upon your IPaC submission and a standing analysis, your project has reached the determination of "No Effect" on the northern long-eared bat. To make a no effect determination, the full scope of the proposed project implementation (action) should not have any effects (either positive or negative), to a federally listed species or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed

action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (See § 402.17).

Under Section 7 of the ESA, if a federal action agency makes a no effect determination, no consultation with the Service is required (ESA §7). If a proposed Federal action may affect a listed species or designated critical habitat, formal consultation is required except when the Service concurs, in writing, that a proposed action "is not likely to adversely affect" listed species or designated critical habitat [50 CFR §402.02, 50 CFR§402.13].

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination for the northern long-eared bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Eastern Black Rail *Laterallus jamaicensis ssp. jamaicensis* Threatened
- Monarch Butterfly *Danaus plexippus* Candidate
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered

You may coordinate with our Office to determine whether the Action may affect the animal species listed above and, if so, how they may be affected.

Next Steps

Based upon your IPaC submission, your project has reached the determination of “No Effect” on the northern long-eared bat. If there are no updates on listed species, no further consultation/ coordination for this project is required with respect to the northern long-eared bat. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional coordination with the Service should take place to ensure compliance with the Act.

If you have any questions regarding this letter or need further assistance, please contact the Chesapeake Bay Ecological Services Field Office and reference Project Code 2024-0082123 associated with this Project.

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

Town of Henlopen Acres

2. Description

The following description was provided for the project 'Town of Henlopen Acres':

> Applicant proposes up to 6,500 c.y. mechanical maintenance dredging to -4' MLW to restore navigable access in the Henlopen Acres Marina, Located by 104 Tidewaters, Rehoboth Beach, Delaware 19963. The canal measurements at mean low or ordinary high water is 100' in width and 560' in length.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@38.72737995,-75.08631508393938,14z

DETERMINATION KEY RESULT

Based on the information you provided, you have determined that the Proposed Action will have no effect on the Endangered northern long-eared bat (Myotis septentrionalis). Therefore, no consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (87 Stat. 884, as amended 16 U.S.C. 1531 *et seq.*) is required for those species.

QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of the northern long-eared bat or any other listed species?

   Note: Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

   No

2. The proposed action does not intersect an area where the northern long-eared bat is likely to occur, based on the information available to U.S. Fish and Wildlife Service as of the most recent update of this key. If you have data that indicates that northern long-eared bats are likely to be present in the action area, answer "NO" and continue through the key.

   Do you want to make a no effect determination?

   Yes

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

In Reply Refer To: 04/26/2024 12:14:08 UTC
Project code: 2024-0082123
Project Name: Town of Henlopen Acres

Federal Nexus: yes
Federal Action Agency (if applicable):

Subject: Technical assistance for 'Town of Henlopen Acres'

Dear nick wright:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on April 26, 2024, for "Town of Henlopen Acres" (here forward, Project). This project has been assigned Project Code 2024-0082123 and all future correspondence should clearly reference this number.

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into the IPaC must accurately represent the full scope and details of the Project. Failure to accurately represent or implement the Project as detailed in IPaC or the Northeast Determination Key (Dkey), invalidates this letter. ***Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.***

To make a no effect determination, the full scope of the proposed project implementation (action) should not have any effects (either positive or negative effect(s)), to a federally listed species or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (See § 402.17). Under Section 7 of the ESA, if a federal action agency makes a no effect determination, no further consultation with, or concurrence from, the Service is required (ESA §7). If a proposed Federal action may affect a listed species or designated critical habitat, formal consultation is required (except when the Service concurs, in writing, that a

proposed action "is not likely to adversely affect (NLAA)" listed species or designated critical habitat [50 CFR §402.02, 50 CFR§402.13]).

The IPaC results indicated the following species is (are) potentially present in your project area and, based on your responses to the Service's Northeast DKey, you determined the proposed Project will have the following effect determinations:

Species	Listing Status	Determination
Eastern Black Rail (*Laterallus jamaicensis ssp. jamaicensis*)	Threatened	NLAA

Conclusion

Coordination with the Service is not complete. The project has a federal nexus (e.g., funds, permits); however, you are not the federal action agency. Therefore, the ESA consultation status is incomplete and no project activities on any portion of the parcel should occur until consultation between the Service and the Federal action agency (or designated non-federal representative), is completed. Section 7 consultation is not complete until the federal action agency submits a determination of effects, and the Service concurs with the federal action agency's determination. Please provide this technical assistance letter to the lead federal action agency or its designated non-federal representative with a request for its review.

As the federal agency deems appropriate, they should submit their determination of effects to the appropriate Ecological Services Field Office. The lead federal action agency or designated non-federal representative can log into IPaC system using their agency email account and click "Search by record locator" to find this Project using 345-142351767.

In addition to the species listed above, the following species and/or critical habitats may also occur in your project area and are not covered by this conclusion:

- Monarch Butterfly *Danaus plexippus* Candidate
- Northern Long-eared Bat *Myotis septentrionalis* Endangered
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered

If no changes occur with the Project or there are no updates on listed species, no further consultation/coordination for this project is required for the species identified above. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional consultation with the Service should take place before project implements any changes which are final or commits additional resources.

Please Note: If the Action may impact bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act (BGEPA) (54 Stat. 250, as amended, 16 U.S.C. 668a-d) by the prospective permittee may be required. Please contact the Migratory Birds Permit Office, (413) 253-8643, or PermitsR5MB@fws.gov, with any questions regarding potential impacts to Eagles.

If you have any questions regarding this letter or need further assistance, please contact the Chesapeake Bay Ecological Services Field Office and reference the Project Code associated with this Project.

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

Town of Henlopen Acres

2. Description

The following description was provided for the project 'Town of Henlopen Acres':

> Applicant proposes up to 6,500 c.y. mechanical maintenance dredging to -4' MLW to restore navigable access in the Henlopen Acres Marina, Located by 104 Tidewaters, Rehoboth Beach, Delaware 19963. The canal measurements at mean low or ordinary high water is 100' in width and 560' in length.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@38.72737995,-75.08631508393938,14z

QUALIFICATION INTERVIEW

1. As a representative of this project, do you agree that all items submitted represent the complete scope of the project details and you will answer questions truthfully?

   Yes

2. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed species?

   Note: This question could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered, or proposed species.

   No

3. Is the action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

   Yes

4. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) the lead agency for this project?

   No

5. Are you including in this analysis all impacts to federally listed species that may result from the entirety of the project (not just the activities under federal jurisdiction)?

   Note: If there are project activities that will impact listed species that are considered to be outside of the jurisdiction of the federal action agency submitting this key, contact your local Ecological Services Field Office to determine whether it is appropriate to use this key. If your Ecological Services Field Office agrees that impacts to listed species that are outside the federal action agency's jurisdiction will be addressed through a separate process, you can answer yes to this question and continue through the key.

   Yes

6. Are you the lead federal action agency or designated non-federal representative requesting concurrence on behalf of the lead Federal Action Agency?

   No

7. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)?

   No

8. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)?

   No

9. Is the lead federal action agency the Natural Resources Conservation Service?

   No

10. Will the proposed project involve the use of herbicide where listed species are present?

    No

11. Are there any caves or anthropogenic features suitable for hibernating or roosting bats within the area expected to be impacted by the project?

    No

12. Does any component of the project associated with this action include activities or structures that may pose a collision risk to **birds** (e.g., plane-based surveys, land-based or offshore wind turbines, communication towers, high voltage transmission lines, any type of towers with or without guy wires)?

    Note: For federal actions, answer ‘yes’ if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

    No

13. Does any component of the project associated with this action include activities or structures that may pose a collision risk to **bats** (e.g., plane-based surveys, land-based or offshore wind turbines)?

    Note: For federal actions, answer ‘yes’ if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

    No

14. Will the proposed project result in permanent changes to water quantity in a stream or temporary changes that would be sufficient to result in impacts to listed species?

    For example, will the proposed project include any activities that would alter stream flow, such as water withdrawal, hydropower energy production, impoundments, intake structures, diversion structures, and/or turbines? Projects that include temporary and limited water reductions that will not displace listed species or appreciably change water availability for listed species (e.g. listed species will experience no changes to feeding, breeding or sheltering) can answer "No". Note: This question refers only to the amount of water present in a stream, other water quality factors, including sedimentation and turbidity, will be addressed in following questions.

    No

15. Will the proposed project affect wetlands where listed species are present?

    This includes, for example, project activities within wetlands, project activities within 300 feet of wetlands that may have impacts on wetlands, water withdrawals and/or discharge of contaminants (even with a NPDES).

    No

16. Will the proposed project activities (including upland project activities) occur within 0.5 miles of the water's edge of a stream or tributary of a stream where listed species may be present?

    Yes

17. Will the proposed project directly affect a streambed (below ordinary high water mark (OHWM)) of the stream or tributary where listed species may be present?

    Yes

18. Will the proposed project bore underneath (directional bore or horizontal directional drill) a stream where listed species may be present?

    No

19. Will the proposed project involve a new point source discharge into a stream or change an existing point source discharge (e.g., outfalls; leachate ponds) where listed species may be present?

    No

20. Will the proposed project involve the removal of excess sediment or debris, dredging or in-stream gravel mining where listed species may be present?

    Yes

21. Will the proposed project involve the creation of a new water-borne contaminant source where listed species may be present?

    Note New water-borne contaminant sources occur through improper storage, usage, or creation of chemicals. For example: leachate ponds and pits containing chemicals that are not NSF/ANSI 60 compliant have contaminated waterways. Sedimentation will be addressed in a separate question.

    No

22. Will the proposed project involve perennial stream loss, in a stream of tributary of a stream where listed species may be present, that would require an individual permit under 404 of the Clean Water Act?

    No

23. Will the proposed project involve blasting where listed species may be present?

    No

24. Will the proposed project include activities that could negatively affect fish movement temporarily or permanently (including fish stocking, harvesting, or creation of barriers to fish passage).

    No

25. Will the proposed project involve earth moving that could cause erosion and sedimentation, and/or contamination along a stream or tributary of a stream where listed species may be present?

    Note: Answer "Yes" to this question if erosion and sediment control measures will be used to protect the stream.

    No

26. Will earth moving activities result in sediment being introduced to streams or tributaries of streams where listed species may be present through activities such as, but not limited to, valley fills, large-scale vegetation removal, and/or change in site topography?

    No

27. Will the proposed project involve vegetation removal within 200 feet of a perennial stream bank where aquatic listed species may be present?

    No

28. Will erosion and sedimentation control Best Management Practices (BMPs) associated with applicable state and/or Federal permits, be applied to the project? If BMPs have been provided by and/or coordinated with and approved by the appropriate Ecological Services Field Office, answer "Yes" to this question.

    Yes

29. Is the project being funded, lead, or managed in whole or in part by U.S Fish and Wildlife Restoration and Recovery Program (e.g., Partners, Coastal, Fisheries, Wildlife and Sport Fish Restoration, Refuges)?

    No

30. [Semantic] Does the project intersect the Virginia big-eared bat critical habitat?

    Automatically answered
    No

31. [Semantic] Does the project intersect the Indiana bat critical habitat?

    Automatically answered
    No

32. [Semantic] Does the project intersect the candy darter critical habitat?

    Automatically answered
    No

33. [Semantic] Does the project intersect the diamond darter critical habitat?

    Automatically answered
    No

34. [Semantic] Does the project intersect the Big Sandy crayfish critical habitat?

    Automatically answered
    No

35. [Hidden Semantic] Does the project intersect the Guyandotte River crayfish critical habitat?

    Automatically answered
    No

36. [Hidden Semantic] Does the project intersect the Eastern black rail AOI?

    Automatically answered
    Yes

37. Does the action area include persistent emergent wetlands (salt, brackish, or freshwater)?

    Yes

38. Have black rails or black rail habitat been identified in sufficient detail in available surveys or records from within the last 2 years to assume presence at the site? (If unsure, select "No".)

    No

39. Will the proposed project involve activities conducted in persistent emergent wetlands (salt, brackish or freshwater) that may result in permanent or long-term (greater than 1 month) modifications to hydrology (flood frequency or depth)?

    No

40. Will the proposed project involve activities conducted in persistent emergent wetlands (salt, brackish or freshwater) that may result in permanent or long-term (longer than 1 growing season) modifications to vegetation type?

    No

41. Will the proposed project involve activities conducted in persistent emergent wetlands (salt, brackish or freshwater) that may result in permanent or long-term (longer than 1 growing season) reduction of dense overhead cover of persistent emergent wetland vegetation to less than 50% of habitat, in any given calendar year?

    No

42. Does the proposed project include prescribed burns in marshy or flooded open field habitat?

    No

43. Does the project include mowing, haying, and/or other mechanical treatment activities in marshy or flooded open field habitat?

    No

44. Does the project include grazing activities on public lands containing marshy or flooded open field habitat?

    No

45. Will the project cause long-term or permanent damage, fragmentation, or conversion of eastern black rail habitat?

    No

46. Will the project cause long-term or permanent damage, fragmentation, or conversion of the contiguous wetland-upland transition zone to other habitat types or land uses (e.g., between upland habitat and wetland habitat) for eastern black rail?

    No

47. Will any part of the project take place between March 15 and May 15 OR between July 15 and October 1?

    No

48. Do you have any other documents that you want to include with this submission?

    No

PROJECT QUESTIONNAIRE

1. Approximately how many acres of trees would the proposed project remove?

   0

2. Approximately how many total acres of disturbance are within the disturbance/ construction limits of the proposed project?

   1

3. Briefly describe the habitat within the construction/disturbance limits of the project site.

   The project area is located within the Town of Henlopen Acres Marina. The proposed project involves mechanical maintenance dredging at the marina located by 104 Tidewaters, Rehoboth Beach, Delaware 19971. The area is a tidally influenced tributary of the Rehoboth Bay.

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

In Reply Refer To: 04/25/2024 17:56:25 UTC
Project Code: 2024-0082123
Project Name: Town of Henlopen Acres

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 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 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:

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.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/program/migratory-bird-permit/what-we-do.

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/library/collections/threats-birds.

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/partner/council-conservation-migratory-birds.

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: 2024-0082123
Project Name: Town of Henlopen Acres
Project Type: Disposal Dredge Material
Project Description: Applicant proposes up to 6,500 c.y. mechanical maintenance dredging to -4' MLW to restore navigable access in the Henlopen Acres Marina, Located by 104 Tidewaters, Rehoboth Beach, Delaware 19963. The canal measurements at mean low or ordinary high water is 100' in width and 560' in length.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@38.72737995,-75.08631508393938,14z

Counties: Sussex County, Delaware

ENDANGERED SPECIES ACT SPECIES

There is a total of 4 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 2 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 Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

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

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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.

MAMMALS

NAME	STATUS
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: ▪ This species only needs to be considered if the project includes wind turbine operations. Species profile: https://ecos.fws.gov/ecp/species/9045	Endangered
Tricolored Bat *Perimyotis subflavus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515	Proposed Endangered

BIRDS

NAME	STATUS
Eastern Black Rail *Laterallus jamaicensis ssp. jamaicensis* No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: ▪ Potential habitat for Black Rail exists in this area. Species profile: https://ecos.fws.gov/ecp/species/10477	Threatened

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. 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.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

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.

ESTUARINE AND MARINE DEEPWATER

- E1UBLx

ESTUARINE AND MARINE WETLAND

- E2EM1Nd

STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
DIVISION OF FISH & WILDLIFE
RICHARDSON & ROBBINS BUILDING
89 KINGS HIGHWAY
DOVER, DELAWARE 19901

DIRECTOR'S OFFICE

PHONE
(302) 739-9910

August 23, 2024

Nick Wright
Envirotech Environmental Consulting, Inc.
17605 Nassau Commons Boulevard, Unit D
Lewes, DE 19958

Re: ETECH 2024 Henlopen Acres Marina Dredging, Tax Parcel # 334-14.09-10.00

Dear Nick:

Thank you for contacting the Division of Fish and Wildlife (DFW) Species Conservation and Research Program about information on rare, threatened and endangered species, unique natural communities, and other significant natural resources as they relate to the above referenced project.

State Natural Heritage Site
A review of our database indicates that there are currently no records of state-rare or federally listed plants, animals or natural communities at this project site. As a result, at present, this project does not lie within a State Natural Heritage Site, nor does it lie within a Delaware National Estuarine Research Reserve which are two criteria used to identify "Designated Critical Resource Waters" in the U.S. Army Corps of Engineers (USACE) Nationwide Permit General Condition No. 22. A copy of this letter shall be included in any permit application or pre-construction notification submitted to the USACE for activities on this property.

Fisheries
State-rare Fish
A population of fourspine stickleback (*Apeltes quadracus*), a fish Species of Greatest Conservation Need, is found within the Lewes-Rehoboth Canal. This species is dependent on calm, shallow, heavily vegetated waters for its habitat and for spawning. ***If*** submerged aquatic vegetation is prevalent in the project area, measures should be taken to avoid impacts to the vegetation, to decrease downstream sedimentation, and to avoid in-water work from **April 1st – May 30th** when spawning typically occurs.

Summer Flounder
Sampling conducted by our Division's fisheries staff revealed that the Lewes-Rehoboth Canal supports a large number of juvenile migratory fish and is thus considered an important nursery

HCA
DELAWARE HISTORICAL & CULTURAL AFFAIRS

Delaware Division of Historical & Cultural Affairs
29 N. State St., Dover, Delaware 19901
Tel. (302) 736-7400 | Fax. (302) 739-5660
history.delaware.gov

October 14, 2024

Nickolas Wright
Envirotech, Inc.
17605 Nassau Commons Boulevard, Unit D
Lewes, DE 19958

Subject: Henlopen Acres Marina
SHPO Project No. 2024.07.05.02

Dear Mr. Wright:

We understand from your letter that the applicant, the Town of Henlopen Acres, is seeking a permit from the US Army Corps of Engineers (USACOE) for the proposed undertaking at 104 Tidewaters in Rehoboth. The applicant is proposing to maintenance dredge the existing manmade marina. Because of the need for authorization from the USACOE, the project is subject to compliance with Section 106 of the National Historic Preservation Act of 1966 (as amended).

There are no known archaeological sites or historic properties within the area of potential effect (APE). There are over 100 recorded historic structures within a half-mile radius of the APE. Due to the limited nature of the proposed undertaking and the distance to known historic resources, there is no anticipated impact to these properties. There are five known archaeological sites within a half-mile radius of the APE. Due to the limited nature of the proposed undertaking and the distance to known archaeological sites, there is no anticipated impact to these properties. As this is an existing manmade marina that has been previously dredged, there is low potential for any intact archaeological sites to exist within the APE.

Our Office finds there to be No Historic Properties Affected by the proposed undertaking. Please feel free to contact me if you have any questions at (302) 736-7431 or sarah.carr@delaware.gov.

Sincerely,

Sarah Carr, Archaeologist
Environmental Specialist
cc: Gwen Davis, Deputy SHPO

Attachment C:

Essential Fish Habitat Assessment and Mapper

EFH Mapper Report

EFH Data Notice

Essential Fish Habitat (EFH) is defined by textual descriptions contained in the fishery management plans developed by the regional fishery management councils. In most cases mapping data can not fully represent the complexity of the habitats that make up EFH. This report should be used for general interest queries only and should not be interpreted as a definitive evaluation of EFH at this location. A location-specific evaluation of EFH for any official purposes must be performed by a regional expert. Please refer to the following links for the appropriate regional resources.

Greater Atlantic Regional Office
Atlantic Highly Migratory Species Management Division

Query Results

Degrees, Minutes, Seconds: Latitude = 38º 43' 36" N, Longitude = 76º 54' 47" W
Decimal Degrees: Latitude = 38.727, Longitude = -75.087

The query location intersects with spatial data representing EFH and/or HAPCs for the following species/management units.

***** W A R N I N G *****

Please note under "Life Stage(s) Found at Location" the category "ALL" indicates that all life stages of that species share the same map and are designated at the queried location.

EFH

Link	Data Caveats	Species/Management Unit	Lifestage(s) Found at Location	Management Council	FMP
		Atlantic Butterfish	Adult, Eggs, Juvenile, Larvae	Mid-Atlantic	Atlantic Mackerel, Squid,& Butterfish Amendment 11
		Atlantic Herring	Adult, Juvenile	New England	Amendment 3 to the Atlantic Herring FMP
		Black Sea Bass	Adult, Juvenile	Mid-Atlantic	Summer Flounder, Scup, Black Sea Bass
		Bluefish	Adult, Juvenile	Mid-Atlantic	Bluefish
		Clearnose Skate	Adult, Juvenile	New England	Amendment 2 to the Northeast Skate Complex FMP
		Little Skate	Adult, Juvenile	New England	Amendment 2 to the Northeast Skate Complex FMP
		Longfin Inshore Squid	Adult, Eggs,	Mid-Atlantic	Atlantic Mackerel, Squid,& Butterfish

Link	Data Caveats	Species/Management Unit	Lifestage(s) Found at Location	Management Council	FMP
			Juvenile		Amendment 11
		Monkfish	Eggs/Larvae	New England	Amendment 4 to the Monkfish FMP
		Red Hake	Adult, Eggs/Larvae/Juvenile	New England	Amendment 14 to the Northeast Multispecies FMP
		Scup	Adult, Juvenile	Mid-Atlantic	Summer Flounder, Scup, Black Sea Bass
		Silver Hake	Adult, Eggs/Larvae	New England	Amendment 14 to the Northeast Multispecies FMP
		Summer Flounder	Adult, Juvenile	Mid-Atlantic	Summer Flounder, Scup, Black Sea Bass
		Windowpane Flounder	Adult, Eggs, Juvenile	New England	Amendment 14 to the Northeast Multispecies FMP
		Winter Skate	Adult, Juvenile	New England	Amendment 2 to the Northeast Skate Complex FMP
		Yellowtail Flounder	Juvenile	New England	Amendment 14 to the Northeast Multispecies FMP

Pacific Salmon EFH

No Pacific Salmon Essential Fish Habitat (EFH) were identified at the report location.

Atlantic Salmon

No Atlantic Salmon were identified at the report location.

HAPCs

Link	Data Caveats	HAPC Name	Management Council
		Summer Flounder SAV	Mid-Atlantic Fishery Management Council

EFH Areas Protected from Fishing

No EFH Areas Protected from Fishing (EFHA) were identified at the report location.

Spatial data does not currently exist for all the managed species in this area. The following is a list of species or management units for which there is no spatial data.
****For links to all EFH text descriptions see the complete data inventory: open data inventory -->**

All EFH species have been mapped for the Greater Atlantic region,
Atlantic Highly Migratory Species EFH,
Bigeye Sand Tiger Shark,
Bigeye Sixgill Shark,
Caribbean Sharpnose Shark,
Galapagos Shark,
Narrowtooth Shark,
Sevengill Shark,

Spatial data does not currently exist for all the managed species in this area. The following is a list of species or management units for which there is no spatial data. ****For links to all EFH text descriptions see the complete data inventory: open data inventory -->**
Sixgill Shark, Smooth Hammerhead Shark, Smalltail Shark

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: Town Of Henlopen Acres Marina: Maintenance Dredging

Project Sponsor/Applicant: Evirotech Environmental Consulting Inc.

Federal Action Agency (or state agency if the federal agency has provided written notice delegating the authority[1]):

Fast-41: Yes ☐ No ☑

Action Agency Contact Name:

Contact Phone: Contact Email:

Address, City/Town, State:

104 Tidewaters, Rehoboth Beach, Delaware 19971

2. Project Description

[2]Latitude: 38°43'34.99"N Longitude: 75° 5'13.38"W

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

Project Purpose:

The Project purpose is to perform Mechanical Maintenance Dredging at the above referenced location.

Project Description:

The proposed project is located along the Lewes and Rehoboth Canal at 104 Tidewaters, Rehoboth Beach, Delaware 19971. The project purpose is to perform mechanical maintenance dredging to a portion of the manmade marina at the referenced location. The mechanical maintenance dredging will remove sediment to -4' below Mean Water Level in order to restore navigable access for recreational boating in the Henlopen Acres Marina. The severe elevation of accumulated sediment observed within the marina causes boats to run aground and inadequate docking conditions. All appropriate risk avoidance measures will be followed to allow practicable alternatives and consideration of impacts were necessary. The work authorized shall be completed in accordance with the terms and conditions of the applicable United States Army Corps of Engineers Permit (Nationwide Permit #35-Maintinace Dredging of Existing Basins). Erosion and sediment control measures shall be implemented in accordance with the specifications and criteria in the current Delaware Erosion and Sediment Control Handbook so as to minimize entry and dispersal of sediment and other contaminants to surface waters. Please note: Site Maps and Property Survey are attached

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

Dredging actives will begin after the necessary permits are acquired. However, all time of the year restictions set forth by the regulatory agencies will be followed.

[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):
+/- 1-2.75 ft	8 - 32.8	31.6 - 86

[3]Use 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. [4] Special 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/ft²/ft³)	Temporary impacts (lf/ft²/ft³)	Permanent impacts (lf/ft²/ft³)	Restored to pre-existing conditions?*
Estuarine	Substrate (silt/mud)	+/- 50,000 ft2			Yes
Estuarine	Substrate (organic detritus)	+/- 50,000 ft2			Yes
Select one	Select One				Select one
Select one	Select One				Select one
Select one	Select One				Select one
Select one	Select One				Select one
Select one	Select One				Select one
Select one	Select One				Select one

*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)	Yes	73%
Sand (0.063-2mm)	Yes	27%
Rocky: Pebble/Gravel /Cobble(2-256mm)**	No	
Rocky: Boulder (256-4096mm)**	No	
Rocky: Coral	No	
Bedrock**	No	

[6]The 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.

Sand: 27% Silt: 52% Clay: 21%

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 that 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**	
clearnose skate	☐	☐	✔	✔	Text descriptic
little skate	☐	☐	✔	✔	EFH Mapper c
summer flounder	☐	☐	✔	✔	Text descriptic
windowpane flounder	✔	☐	✔	✔	Select One
winter skate	☐	☐	✔	✔	EFH Mapper c
Select One	☐	☐	☐	☐	Select One
Select One	☐	☐	☐	☐	Select One
Select One	☐	☐	☐	☐	Select One
Select One	☐	☐	☐	☐	Select One
Select One	☐	☐	☐	☐	Select One
Select One	☐	☐	☐	☐	Select One

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 : Mechanical Maintenance Dredging
☐	Agriculture
☐	Aquaculture - List species here:
☐	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.

This project will take place within a man-made marina and the area of impact will be limited to the marina's current foot-print. The temporary impacts during the dredging project includes underwater noise and water quality/turbidity. There is no presence of submerged aquatic vegetation (SAV) or benthic communities identified within the project area.

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?

Dredging activity will take place directly following approval of the appropriate permits, following all time of the year restrictions. Additionally, erosion and sediment control practices will be established within the project site.

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.

No compensatory mitigation is proposed due to the dredging project taking place within a Man-Made-marina. No impact to SAV or benthic communities is anticipated.

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:

No

2. Is the expected lifespan of the action greater than 10 years? If yes, please describe project lifespan:

No

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:

No

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:

No

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:

No

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:	