



**US Army Corps  
of Engineers**  
Philadelphia District

Wanamaker Building  
100 Penn Square East  
Philadelphia, PA 19107-3390  
ATTN: CENAP-OP-R

# Public Notice

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Public Notice No. Date

**CENAP-OP-R-2016-0297**

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Application No. File No.

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In Reply Refer to:  
**REGULATORY BRANCH**

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This District has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344).

The purpose of this notice is to solicit comments and recommendations from the public concerning issuance of a Department of the Army permit for the work described below.

**APPLICANT:** New Jersey Department of Transportation  
Office of Maritime Resources  
P.O. Box 600  
Trenton, New Jersey 08625-0600  
Attn: Ms. Genevieve Clifton

**WATERWAY:** Lavallette Beach Channel

**LOCATION:** Berkley Township, Toms River Township, Seaside Heights Borough and Lavallette Borough, New Jersey.

**ACTIVITY:** The applicant proposes to hydraulically dredge accumulated sediment from within portions of the Lavallette Beach Channel (see Attachment 1- project plans). This project is being advertised for one Department of the Army authorization project (CENAP-OP-R-2016-0297) as a 10 Year maintenance dredging permit. The project consists of maintenance dredging within Lavallette Beach Channel (#076) located within the Boroughs of Lavallette and Seaside Heights, and Toms River and Berkeley Townships. This maintenance dredging event is limited to dredged material that is located below the proposed depths as indicated in Attachment 1.

Maintenance dredging shall consist of approximately sixty four thousand seven hundred and eighty one cubic yards (64781 yds<sup>3</sup>) of sediment consisting of various amounts of sand and silt, from approximately twenty seven thousand and forty seven linear feet (~27,047'). The project depth in the Lavallette Beach Channel is six feet below mean low water (-6' MLW), including one foot (1') of allowable overdredge. The channel design width is 100'. Channel side slopes are 3:1. Maintenance dredging of portions of the channel was last conducted in 2013.

Material will be hydraulically dredged and transported via secure pipeline to the proposed placement location known as Dredge Hole #25 off West Point Island in Barnegat Bay, Lavallette Borough, Ocean Township, Ocean County. The dredge hole is located adjacent to the Lavallette

Beach Channel. The dredged material will be placed in accordance with the dredge hole placement plans #18 & #19 as located in Attachment 1. A more detailed restoration plan is being prepared but not available at the time of this notice. The purpose of placing the sediment in this location is to restore the dredge hole depth to match the surrounding area for SAV to re-vegetate within the dredge hole limits. The dredge sediment transport pipeline, for this dredging event, will be submerged except where necessary to avoid submerged aquatic vegetation (SAV). The pipeline shall be marked as per USCG regulations as needed.

**PURPOSE:** The applicant's stated purpose is to restore the existing navigation channel to authorized project depth and to provide safe navigation for both commercial and recreational vessels currently using the channels.

A preliminary review of this application indicates that the proposed work will not effect threatened and endangered species. While Atlantic Sturgeon (Acipenser oxyrinchus), Kemp's ridley sea turtle (Lepidochelys kempii), loggerhead sea turtle (Caretta caretta), green sea turtle (Chelonia mydas), leatherback sea turtle (Dermochelys coriacea) and hawksbill sea turtle (Eretmochelys imbricate) are possibly in the vicinity, due to the water depths and boating activity, these species are not likely present.

The decision whether to issue a permit will be based on an evaluation of the activity's probable impact including its cumulative impacts on the public interest. The decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the work must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the work will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs and welfare of the people. A Department of the Army permit will be granted unless the District Engineer determines that it would be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

**Comments on the proposed work should be submitted, in writing, within 15 days** to the District Engineer, U.S. Army Corps of Engineers, Philadelphia District, Wanamaker Building, 100 Penn Square East, Philadelphia, Pennsylvania 19107-3390.

Review of the National Register of Historic Places indicates that no registered properties or properties listed as eligible for inclusion therein are located within the permit area of the

work. The permit area has been so extensively modified and previously dredged that little likelihood exists for the proposed project to impact a historic property.

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act 1996 (Public Law 104-267), requires all Federal agencies to consult with the National Marine Fisheries Service on all actions, or proposed actions, permitted, funded, or undertaken by the agency that may adversely effect Essential Fish Habitat (EFH). A preliminary assessment of the species listed in the "Guide to Essential Fish Habitat Designations in the Northeastern United States, Volume IV: New Jersey and Delaware", dated March 1999, indicates that the project may adversely affect EFH. In order to avoid or minimize impacts to EFH species from the dredging, specifically Winter Flounder (*Pseudopleuronectes americanus*), the USACE is recommending no in-water work will be authorized between January 1<sup>st</sup> and May 31<sup>st</sup> of any given year. As the process proceeds any additional impacts will be reviewed more extensively as more information becomes available.

In accordance with Section 307(c) of the Coastal Zone Management Act of 1972, applicants for Federal Licenses or Permits to conduct an activity affecting land or water uses in a State's coastal zone must provide certification that the activity complies with the State's Coastal Zone Management Program. The applicant has stated that the proposed activity complies with and will be conducted in a manner that is consistent with the approved State Coastal Zone Management (CZM) Program. No permit will be issued until the State has concurred with the applicant's certification or has waived its right to do so. Comments concerning the impact of the proposed and/or existing activity on the State's coastal zone should be sent to this office, with a copy to the State's Office of Coastal Zone Management.

In accordance with Section 401 of the Clean Water Act, a Water Quality Certificate is necessary from the State government in which the work is located. Any comments concerning the work described above which relate to Water Quality considerations should be sent to this office with a copy to the State.

The evaluation of the impact of the work described above on the public interest will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act.

Any person may request, in writing, to the District Engineer, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state in writing, with particularity, the reasons for holding a public hearing.

Additional information concerning this permit application may be obtained by calling Mr. Peter Romano at 215-656-6729, via email at [peter.t.romano@usace.army.mil](mailto:peter.t.romano@usace.army.mil) or writing this office at the above address.

Samuel L. Reynolds  
Acting Chief, Regulatory Branch









BARNEGAT  
BAY

LAVALLETTE BEACH CHANNEL

MATCHLINE - SEE SHEET 5

TOMS RIVER  
TOWNSHIP

CHANNEL DREDGE VOLUMES BASED ON MAY 1, 2005 SURVEY DATA

CHANNEL	DREDGE VOLUME (CY)
LAVALLETTE BEACH CHANNEL	1,200
TOMS RIVER CHANNEL	1,200
TOTAL	2,400

- NOTES:
1. CHANNEL DREDGE VOLUMES ARE BASED ON MAY 1, 2005 SURVEY DATA.
  2. CHANNEL DREDGE VOLUMES ARE BASED ON MAY 1, 2005 SURVEY DATA.
  3. CHANNEL DREDGE VOLUMES ARE BASED ON MAY 1, 2005 SURVEY DATA.
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  9. CHANNEL DREDGE VOLUMES ARE BASED ON MAY 1, 2005 SURVEY DATA.
  10. CHANNEL DREDGE VOLUMES ARE BASED ON MAY 1, 2005 SURVEY DATA.

LEGEND

CHANNEL DREDGE VOLUMES BASED ON MAY 1, 2005 SURVEY DATA

GRAPHIC SCALE: 1" = 100'

RANGE OF TIDE: 10' TO 12'

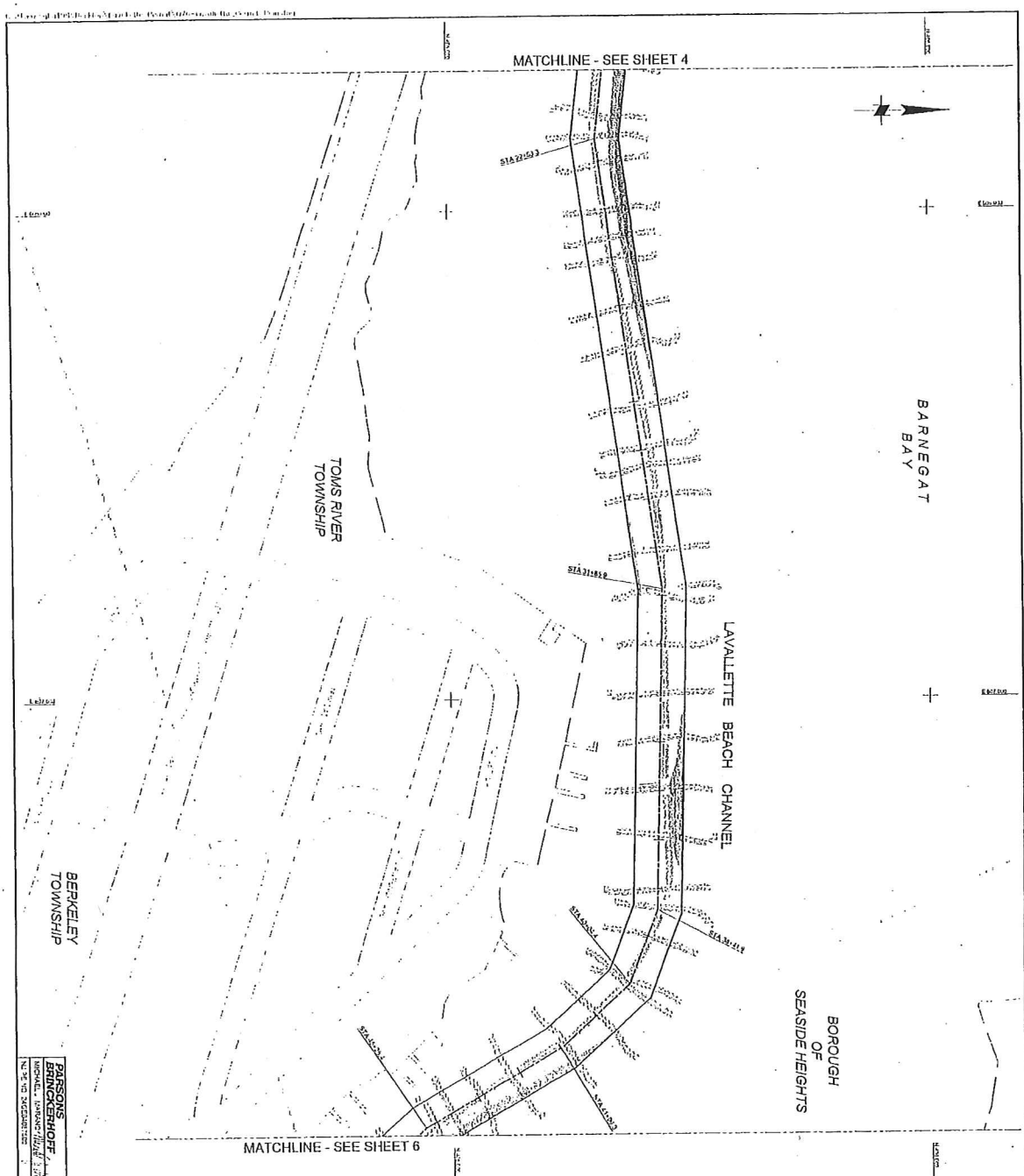
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8	05/11/05	ISSUED FOR BIDDING
9	05/11/05	ISSUED FOR BIDDING
10	05/11/05	ISSUED FOR BIDDING

STATE OF NEW JERSEY  
NJDOT OFFICE OF MARITIME RESOURCES  
FOR LAVALLETTE BEACH CHANNEL  
CHANNEL BATHYMETRY PLAN

PROJECT: LAVALLETTE BEACH CHANNEL  
DESIGNED BY: NJDOT  
CHECKED BY: NJDOT  
APPROVED BY: NJDOT

NO. 100-100000-0000  
SHEET 4 OF 15  
2005-10-000000





**PARSONS**  
**BRINCKERHOFF**  
INCORPORATED  
1000 LAMAR AVENUE, SUITE 200  
NEW JERSEY 07030-2000

**PROJECT:** MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR LAVALITE BEACH CHANNEL

**DATE:** 10/15/2004

**BY:** [Signature]

**NO. OF SHEETS:** 6

**SHEET NO.:** 2

**STATE OF NEW JERSEY**  
**NOTICE OF MARITIME RESOURCES**  
**FOR LAVALITE BEACH CHANNEL**

**PROJECT:** MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS FOR LAVALITE BEACH CHANNEL

**DATE:** 10/15/2004

**BY:** [Signature]

**NO. OF SHEETS:** 6

**SHEET NO.:** 2

**LEGEND:**

- Channel Entrance
- Channel Exit
- Channel Bank
- Channel Bottom
- Channel Depth
- Channel Width
- Channel Length
- Channel Area
- Channel Volume
- Channel Flow
- Channel Velocity
- Channel Temperature
- Channel Salinity
- Channel Turbidity
- Channel Chlorophyll
- Channel Dissolved Oxygen
- Channel pH
- Channel Conductivity
- Channel Specific Gravity
- Channel Density
- Channel Viscosity
- Channel Surface Tension
- Channel Capillary Action
- Channel Cohesion
- Channel Adhesion
- Channel Surface Charge
- Channel Zeta Potential
- Channel Isoelectric Point
- Channel Dielectric Constant
- Channel Refractive Index
- Channel Optical Density
- Channel Absorbance
- Channel Transmittance
- Channel Reflectance
- Channel Scattering Coefficient
- Channel Attenuation Coefficient
- Channel Extinction Coefficient
- Channel Absorption Coefficient
- Channel Emission Coefficient
- Channel Quantum Yield
- Channel Fluorescence
- Channel Phosphorescence
- Channel Chemiluminescence
- Channel Bioluminescence
- Channel Radioactivity
- Channel Magnetic Susceptibility
- Channel Magnetic Permeability
- Channel Magnetic Conductivity
- Channel Magnetic Reluctance
- Channel Magnetic Inductance
- Channel Magnetic Capacitance
- Channel Magnetic Resistance
- Channel Magnetic Impedance
- Channel Magnetic Reactance
- Channel Magnetic Susceptance
- Channel Magnetic Conductance
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- Channel Magnetic Impedance
- Channel Magnetic Reactance
- Channel Magnetic Susceptance
- Channel Magnetic Conductance

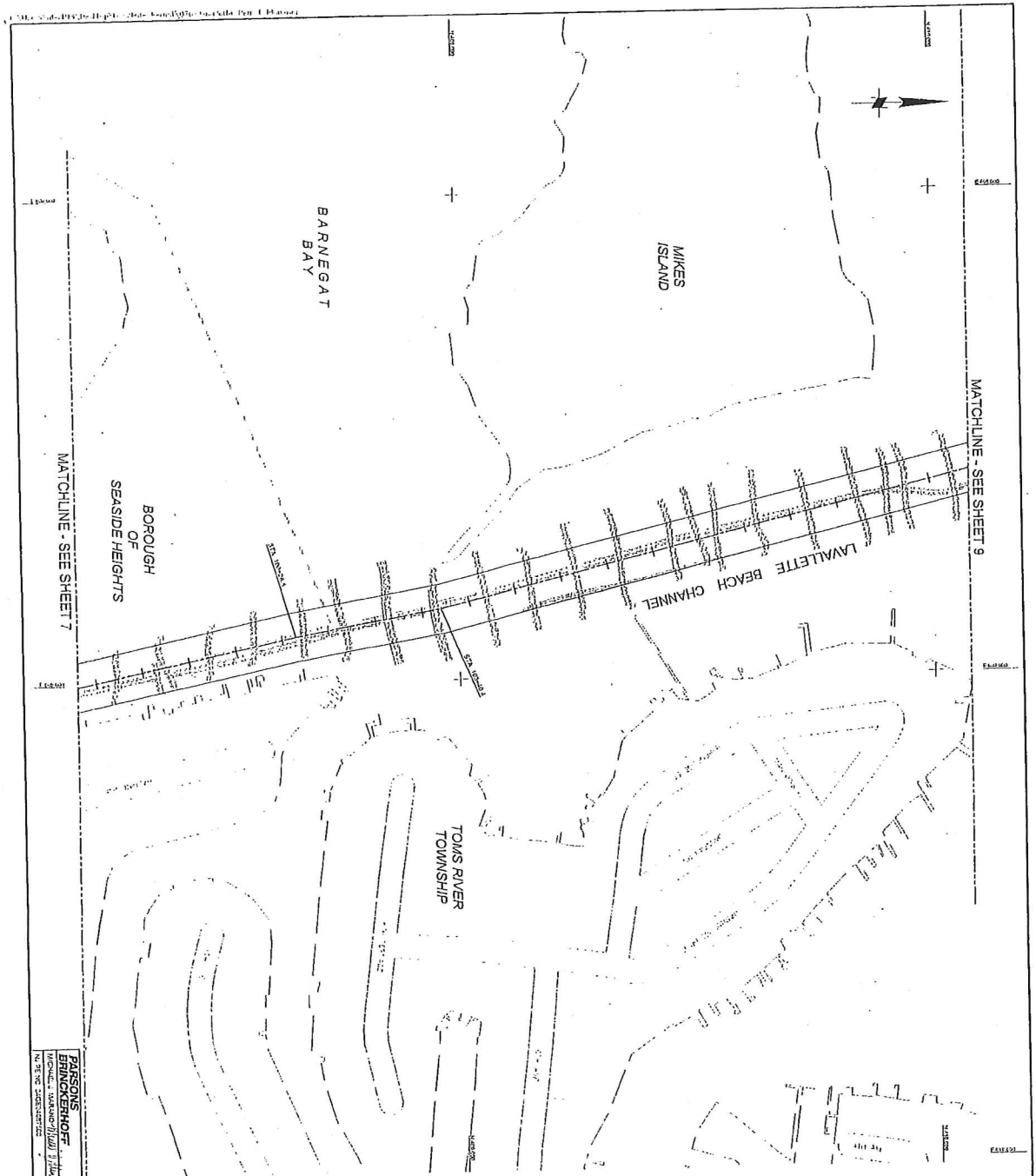
**NOTES:**

- Channel entrance is located at the mouth of the channel.
- Channel exit is located at the head of the channel.
- Channel bank is located on the left side of the channel.
- Channel bottom is located on the right side of the channel.
- Channel depth is indicated by the numbers in the channel.
- Channel width is indicated by the numbers in the channel.
- Channel length is indicated by the numbers in the channel.
- Channel area is indicated by the numbers in the channel.
- Channel volume is indicated by the numbers in the channel.
- Channel flow is indicated by the numbers in the channel.
- Channel velocity is indicated by the numbers in the channel.
- Channel temperature is indicated by the numbers in the channel.
- Channel salinity is indicated by the numbers in the channel.
- Channel turbidity is indicated by the numbers in the channel.
- Channel chlorophyll is indicated by the numbers in the channel.
- Channel dissolved oxygen is indicated by the numbers in the channel.
- Channel pH is indicated by the numbers in the channel.
- Channel conductivity is indicated by the numbers in the channel.
- Channel specific gravity is indicated by the numbers in the channel.
- Channel density is indicated by the numbers in the channel.
- Channel viscosity is indicated by the numbers in the channel.
- Channel surface tension is indicated by the numbers in the channel.
- Channel capillary action is indicated by the numbers in the channel.
- Channel cohesion is indicated by the numbers in the channel.
- Channel adhesion is indicated by the numbers in the channel.
- Channel surface charge is indicated by the numbers in the channel.
- Channel zeta potential is indicated by the numbers in the channel.
- Channel isoelectric point is indicated by the numbers in the channel.
- Channel dielectric constant is indicated by the numbers in the channel.
- Channel refractive index is indicated by the numbers in the channel.
- Channel optical density is indicated by the numbers in the channel.
- Channel absorbance is indicated by the numbers in the channel.
- Channel transmittance is indicated by the numbers in the channel.
- Channel reflectance is indicated by the numbers in the channel.
- Channel scattering coefficient is indicated by the numbers in the channel.
- Channel attenuation coefficient is indicated by the numbers in the channel.
- Channel extinction coefficient is indicated by the numbers in the channel.
- Channel absorption coefficient is indicated by the numbers in the channel.
- Channel emission coefficient is indicated by the numbers in the channel.
- Channel quantum yield is indicated by the numbers in the channel.
- Channel fluorescence is indicated by the numbers in the channel.
- Channel phosphorescence is indicated by the numbers in the channel.
- Channel chemiluminescence is indicated by the numbers in the channel.
- Channel bioluminescence is indicated by the numbers in the channel.
- Channel radioactivity is indicated by the numbers in the channel.
- Channel magnetic susceptibility is indicated by the numbers in the channel.
- Channel magnetic permeability is indicated by the numbers in the channel.
- Channel magnetic conductivity is indicated by the numbers in the channel.
- Channel magnetic reluctance is indicated by the numbers in the channel.
- Channel magnetic inductance is indicated by the numbers in the channel.
- Channel magnetic capacitance is indicated by the numbers in the channel.
- Channel magnetic resistance is indicated by the numbers in the channel.
- Channel magnetic impedance is indicated by the numbers in the channel.
- Channel magnetic reactance is indicated by the numbers in the channel.
- Channel magnetic susceptance is indicated by the numbers in the channel.
- Channel magnetic conductance is indicated by the numbers in the channel.









CHANNEL DREDGE VOLUMES BASED ON MAY 3, 2015 CHD SURVEY DATA

LAVALLETTE BEACH CHANNEL	
SUB-SHEET	
SECTION	1
DATE	10/1/15
BY	W. J. H. H.

- LEGEND
- 1. CHANNEL DREDGE VOLUMES BASED ON MAY 3, 2015 CHD SURVEY DATA
  - 2. CHANNEL DREDGE VOLUMES BASED ON MAY 3, 2015 CHD SURVEY DATA
  - 3. CHANNEL DREDGE VOLUMES BASED ON MAY 3, 2015 CHD SURVEY DATA
  - 4. CHANNEL DREDGE VOLUMES BASED ON MAY 3, 2015 CHD SURVEY DATA
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  - 8. CHANNEL DREDGE VOLUMES BASED ON MAY 3, 2015 CHD SURVEY DATA
  - 9. CHANNEL DREDGE VOLUMES BASED ON MAY 3, 2015 CHD SURVEY DATA
  - 10. CHANNEL DREDGE VOLUMES BASED ON MAY 3, 2015 CHD SURVEY DATA

STATE OF NEW JERSEY  
NJDOT OFFICE OF MARITIME RESOURCES  
FOR LAVALLETTE BEACH CHANNEL

CHANNEL BATHYMETRY PLAN

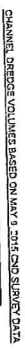
PROJECT: CHANNEL DREDGING AND CHANNEL IMPROVEMENTS  
FOR LAVALLETTE BEACH CHANNEL

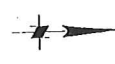
DESIGNED BY: W. J. H. H.  
CHECKED BY: W. J. H. H.  
DATE: 10/1/15

GRAPHIC SCALE (FT)

1" = 100'

NO.	DESCRIPTION	DATE
1	LAVALLETTE BEACH CHANNEL	10/1/15
2	LAVALLETTE BEACH CHANNEL	10/1/15
3	LAVALLETTE BEACH CHANNEL	10/1/15
4	LAVALLETTE BEACH CHANNEL	10/1/15
5	LAVALLETTE BEACH CHANNEL	10/1/15
6	LAVALLETTE BEACH CHANNEL	10/1/15
7	LAVALLETTE BEACH CHANNEL	10/1/15
8	LAVALLETTE BEACH CHANNEL	10/1/15
9	LAVALLETTE BEACH CHANNEL	10/1/15
10	LAVALLETTE BEACH CHANNEL	10/1/15





BARNEGAT BAY

TOMS RIVER TOWNSHIP

LAVALLETTE BEACH CHANNEL

BOROUGH OF LAVALLETTE

WEST POINT ISLAND

MATCHLINE - SEE SHEET 8

MATCHLINE - SEE SHEET 11

CHANNEL DEPTH VALUES BASED ON MAY 3, 2015 CHD SURVEY DATA

CHANNEL DEPTH	CHANNEL DEPTH
LAVALLETTE BEACH CHANNEL	2.00
LAVALLETTE BEACH CHANNEL	2.00
LAVALLETTE BEACH CHANNEL	2.00
LAVALLETTE BEACH CHANNEL	2.00

- NOTES:
1. CHANNEL DEPTH IS IN REFERENCE TO MEAN LOW WATER. MEAN LOW WATER IS 0.45 FEET BELOW THE MEAN HIGHEST LOW WATER. MEAN HIGHEST LOW WATER IS 0.45 FEET BELOW THE MEAN HIGHEST LOW WATER. MEAN HIGHEST LOW WATER IS 0.45 FEET BELOW THE MEAN HIGHEST LOW WATER.
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LEGEND

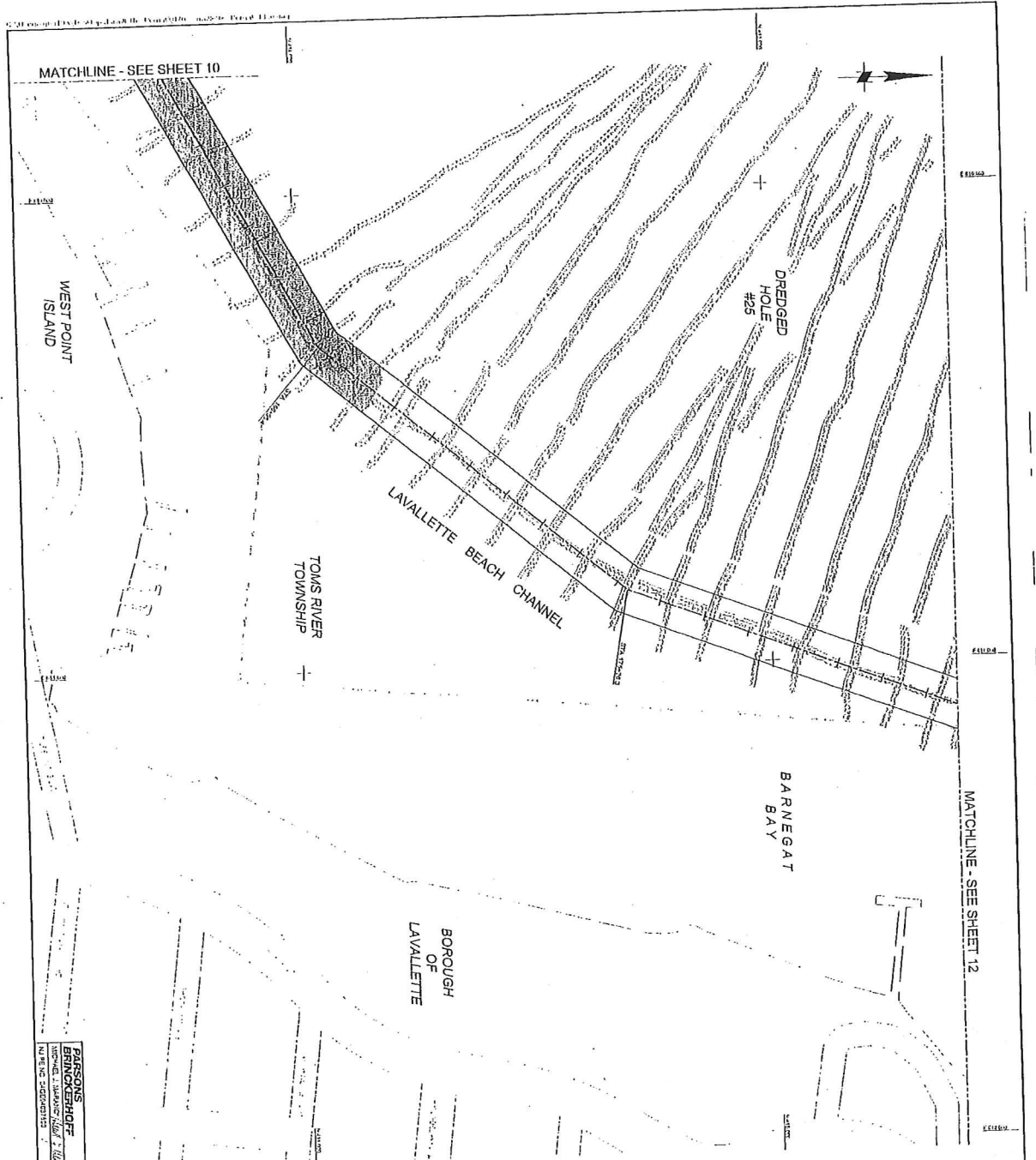
GRAPHIC SCALE: FT

0 100 200 300

1" = 100'

STATE OF NEW JERSEY  
NJDOT OFFICE OF MARITIME RESOURCES  
CHANNEL BATHYMETRY PLAN

PROJECT	DATE	BY	CHKD
LAVALLETTE BEACH CHANNEL	05/03/15	J. BRINKERHOFF	J. BRINKERHOFF
LAVALLETTE BEACH CHANNEL	05/03/15	J. BRINKERHOFF	J. BRINKERHOFF
LAVALLETTE BEACH CHANNEL	05/03/15	J. BRINKERHOFF	J. BRINKERHOFF



MATCHLINE - SEE SHEET 12

DREDGED HOLE #25

LAVALLETTE BEACH CHANNEL

TOMS RIVER TOWNSHIP

BARNEGAT BAY

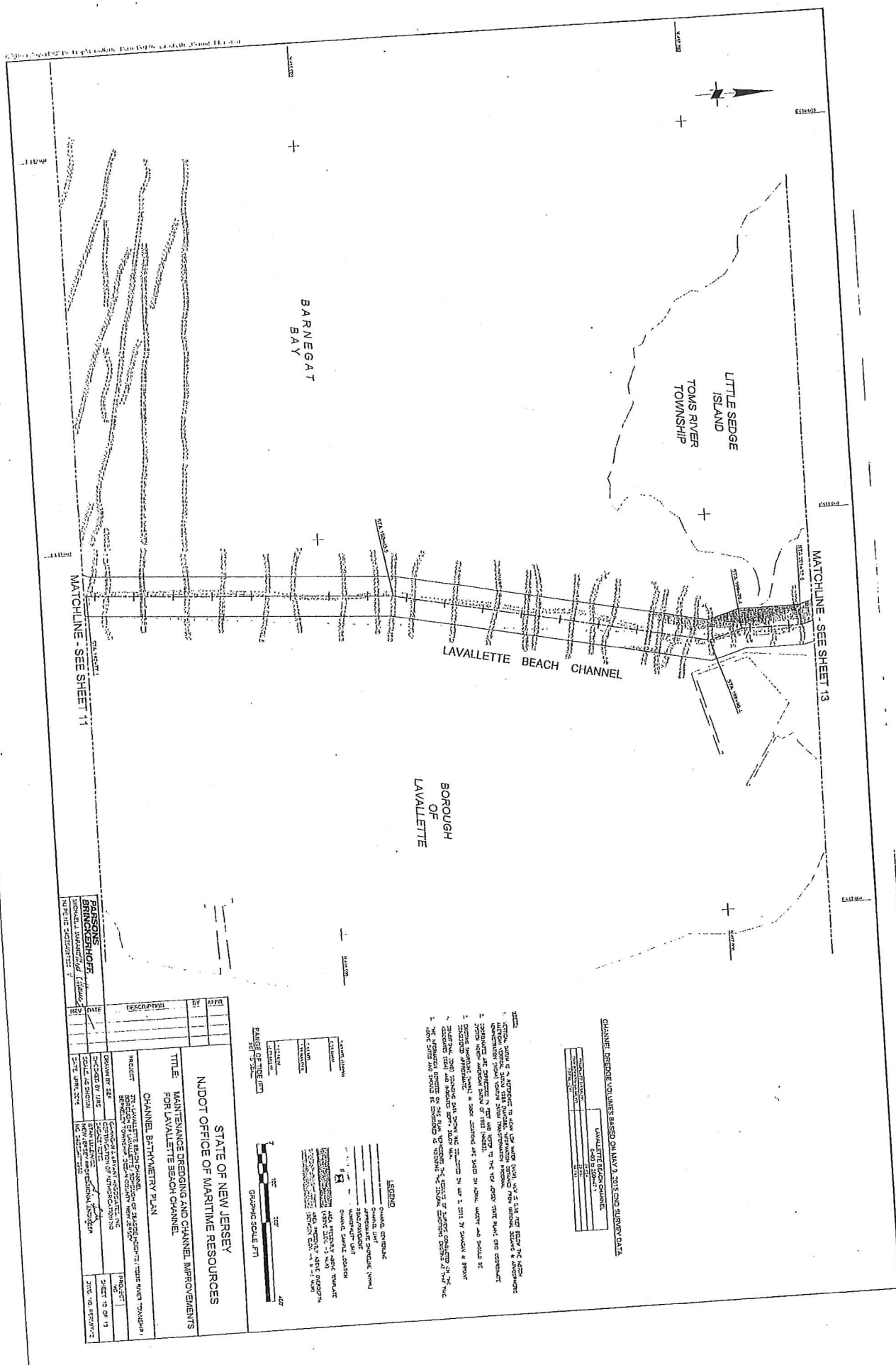
BOROUGH OF LAVALLETTE

MATCHLINE - SEE SHEET 10

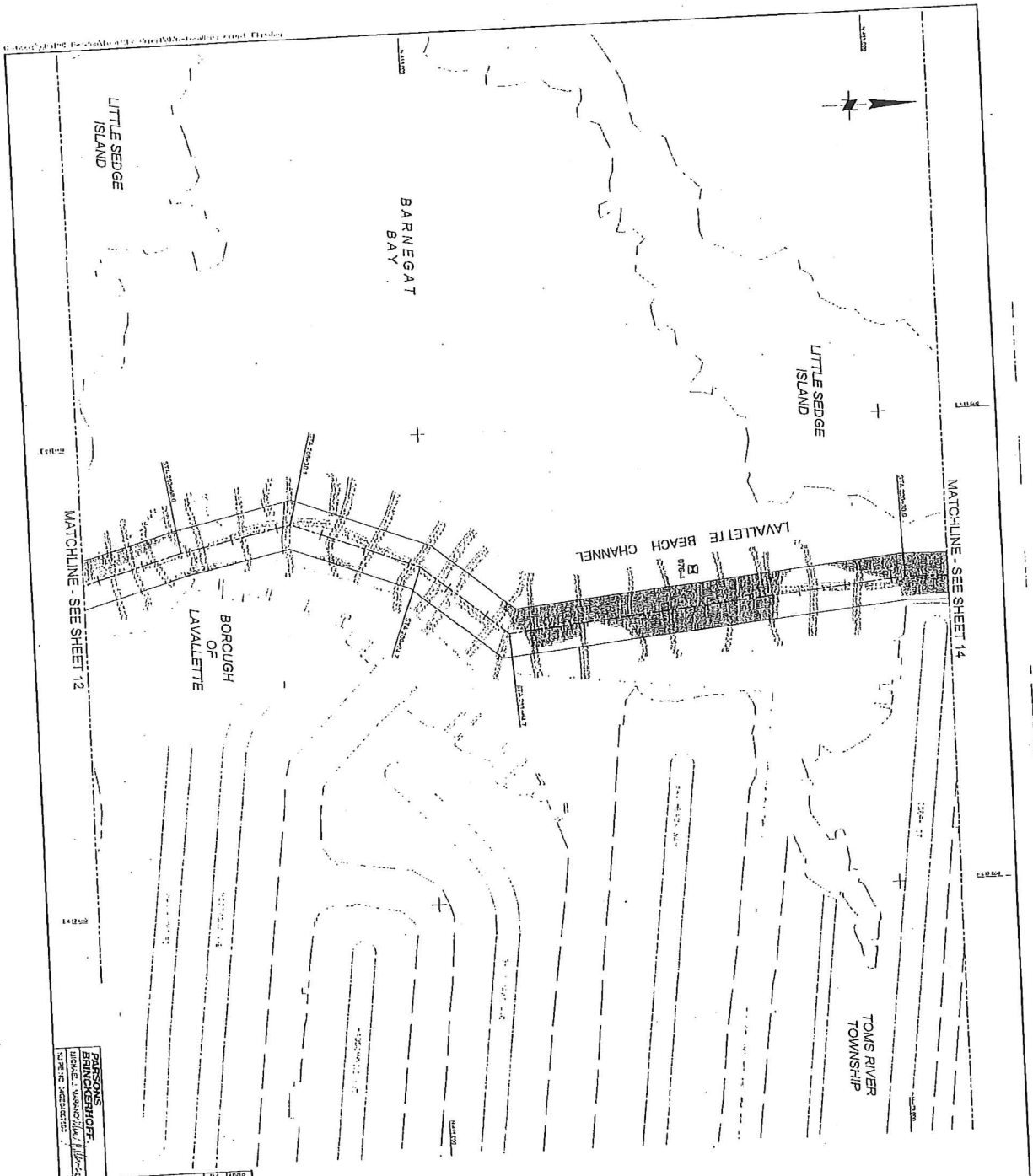
WEST POINT ISLAND

CHANNEL DREDGE VOLUMES BASED ON MAY 2, 2015 CHD SURVEY DATA

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MATCHLINE - SEE SHEET 14

MATCHLINE - SEE SHEET 12

CHANNEL DREDGE VOLUMES BASED ON JAN. 9, 2015 SONAR SURVEY DATA

CHANNEL NAME	DREDGE VOLUME (CY)
LAVALLETTE BEACH CHANNEL	0.00 ± 0.00 ± 0.1
LAVALLETTE BEACH CHANNEL	0.00 ± 0.00 ± 0.1
LAVALLETTE BEACH CHANNEL	0.00 ± 0.00 ± 0.1

- NOTES:
1. CHANNEL DATA IS A REPRESENTATION OF THE DATA AS SHOWN ON THE SONAR SURVEY. IT IS NOT A GUARANTEE OF THE ACCURACY OF THE DATA.
  2. DREDGE VOLUMES ARE BASED ON THE SONAR SURVEY DATA. THEY ARE NOT A GUARANTEE OF THE ACCURACY OF THE DATA.
  3. DREDGE VOLUMES ARE BASED ON THE SONAR SURVEY DATA. THEY ARE NOT A GUARANTEE OF THE ACCURACY OF THE DATA.
  4. DREDGE VOLUMES ARE BASED ON THE SONAR SURVEY DATA. THEY ARE NOT A GUARANTEE OF THE ACCURACY OF THE DATA.
  5. DREDGE VOLUMES ARE BASED ON THE SONAR SURVEY DATA. THEY ARE NOT A GUARANTEE OF THE ACCURACY OF THE DATA.

**LEGEND**

- Channel Centerline
- Channel Edge
- Channel Depth
- Channel Width
- Channel Length
- Channel Area
- Channel Volume
- Channel Shape
- Channel Location
- Channel Orientation
- Channel Direction
- Channel Flow
- Channel Velocity
- Channel Temperature
- Channel Salinity
- Channel Turbidity
- Channel Dissolved Oxygen
- Channel pH
- Channel Conductivity
- Channel Chlorophyll
- Channel Secchi
- Channel Transparency
- Channel Visibility
- Channel Opacity
- Channel Density
- Channel Specific Gravity
- Channel Buoyancy
- Channel Stability
- Channel Strength
- Channel Hardness
- Channel Softness
- Channel Elasticity
- Channel Plasticity
- Channel Malleability
- Channel Ductility
- Channel Brittleness
- Channel Fragility
- Channel Resilience
- Channel Toughness
- Channel Hardness
- Channel Softness
- Channel Elasticity
- Channel Plasticity
- Channel Malleability
- Channel Ductility
- Channel Brittleness
- Channel Fragility
- Channel Resilience
- Channel Toughness

**GRAPHIC SCALE**

1" = 100'

0 100 200 300 400 500 600 700 800 900 1000

DATE	DESCRIPTION	BY	APP'D
10/1/2015	Channel Dredge Volumes	J. J. J.	J. J. J.

**PARSONS BRINCKERHOFF**

1000 N. 10TH STREET, SUITE 1000, NEW YORK, NY 10011

TEL: 212-512-2000 FAX: 212-512-2001

WWW.PARSONSBRINCKERHOFF.COM

**STATE OF NEW JERSEY**

**NJDOT OFFICE OF MARITIME RESOURCES**

**MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS**

**FOR LAVALLETTE BEACH CHANNEL**

**CHANNEL BATHYMETRY PLAN**

**PROJECT**

LAVALLETTE BEACH CHANNEL DREDGING AND CHANNEL IMPROVEMENTS

**DESIGNED BY**

PARSONS BRINCKERHOFF

**CHECKED BY**

PARSONS BRINCKERHOFF

**SCALE**

1" = 100'

**DATE**

10/1/2015

**BY**

J. J. J.

**APP'D**

J. J. J.



MATCHLINE - SEE SHEET 15

541193

TOMS RIVER  
TOWNSHIP

LAVALLETTE BEACH CHANNEL

MATCHLINE - SEE SHEET 13

[illegible]

CHANNEL DREDGE VOLUMES BASED ON MAY 9, 2015 CND SURVEY DATA

LAVLETTE BEACH CHANNEL	
C-002 250-471	
STATION	LA 028
DATE	10 MAY
TIME	14 09H
FILE NO.	1

1. **DEFINITION.** Let  $\mathcal{A}$  be a  $\mathcal{C}^*$ -algebra and let  $\mathcal{B}$  be a  $\mathcal{C}^*$ -subalgebra of  $\mathcal{A}$ . We say that  $\mathcal{B}$  is a *maximal  $\mathcal{C}^*$ -subalgebra* of  $\mathcal{A}$  if  $\mathcal{B}$  is a proper  $\mathcal{C}^*$ -subalgebra of  $\mathcal{A}$  and if  $\mathcal{B}$  is not properly contained in any other  $\mathcal{C}^*$ -subalgebra of  $\mathcal{A}$ .

2. **THEOREM.** Let  $\mathcal{A}$  be a  $\mathcal{C}^*$ -algebra and let  $\mathcal{B}$  be a  $\mathcal{C}^*$ -subalgebra of  $\mathcal{A}$ . Then  $\mathcal{B}$  is a maximal  $\mathcal{C}^*$ -subalgebra of  $\mathcal{A}$  if and only if  $\mathcal{B}$  is a maximal  $\mathcal{C}^*$ -subalgebra of  $\mathcal{A}$ .

3. **PROPOSITION.** Let  $\mathcal{A}$  be a  $\mathcal{C}^*$ -algebra and let  $\mathcal{B}$  be a  $\mathcal{C}^*$ -subalgebra of  $\mathcal{A}$ . Then  $\mathcal{B}$  is a maximal  $\mathcal{C}^*$ -subalgebra of  $\mathcal{A}$  if and only if  $\mathcal{B}$  is a maximal  $\mathcal{C}^*$ -subalgebra of  $\mathcal{A}$ .

4. **LEMMA.** Let  $\mathcal{A}$  be a  $\mathcal{C}^*$ -algebra and let  $\mathcal{B}$  be a  $\mathcal{C}^*$ -subalgebra of  $\mathcal{A}$ . Then  $\mathcal{B}$  is a maximal  $\mathcal{C}^*$ -subalgebra of  $\mathcal{A}$  if and only if  $\mathcal{B}$  is a maximal  $\mathcal{C}^*$ -subalgebra of  $\mathcal{A}$ .

5. **COROLLARY.** Let  $\mathcal{A}$  be a  $\mathcal{C}^*$ -algebra and let  $\mathcal{B}$  be a  $\mathcal{C}^*$ -subalgebra of  $\mathcal{A}$ . Then  $\mathcal{B}$  is a maximal  $\mathcal{C}^*$ -subalgebra of  $\mathcal{A}$  if and only if  $\mathcal{B}$  is a maximal  $\mathcal{C}^*$ -subalgebra of  $\mathcal{A}$ .

LEGEND

CHANNEL LOCATION  
CHANNEL UNIT  
APPROXIMATE DISTANCE

ADAMS/PAYMENT  
UNIVERSITY UNIT

DATA PRESENTLY ABOVE THRESHOLD

APCA ELECTRIC, INC. 3010  
CITYVIEW CIRCLE - 1010

100

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NEW JERSEY  
NATIVE RESOURCES

THE CHINESE LABORER

Each Channel

TRY PLAN

PRODUCT OF JAPAN  
IN COUNTY NEW JERSEY

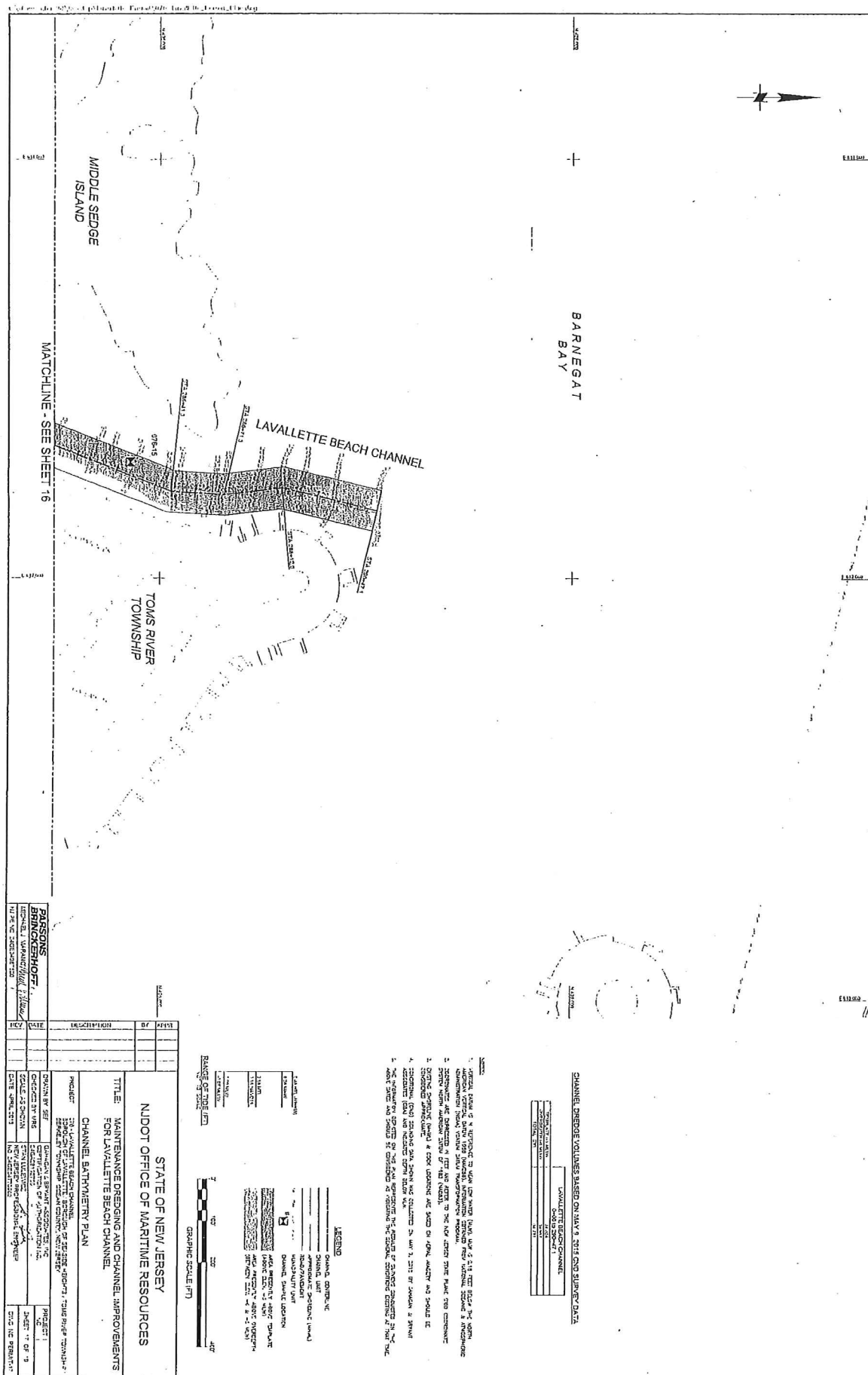
SHEET 1

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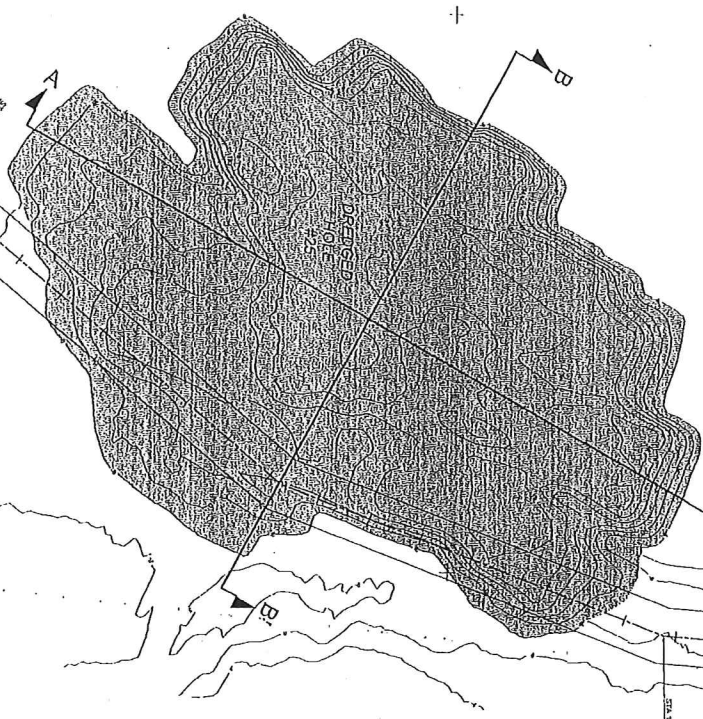






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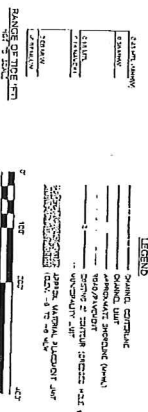
TOMS RIVER  
TOWNSHIP



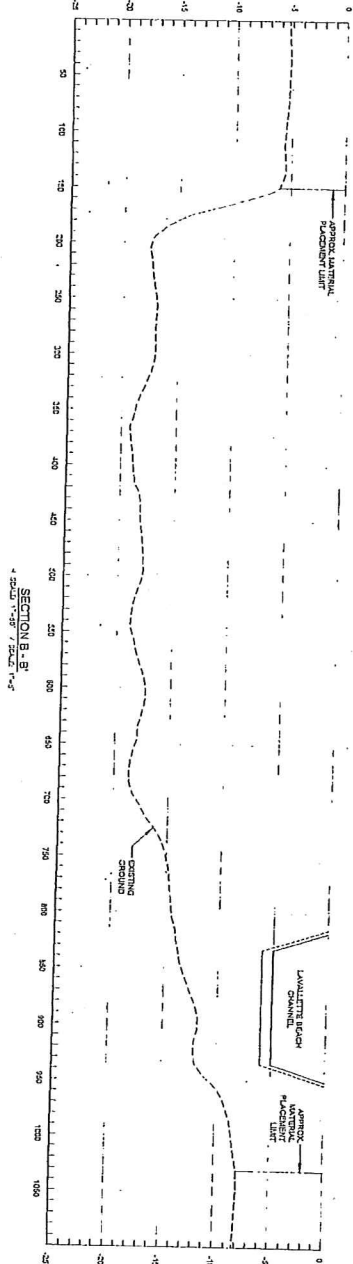
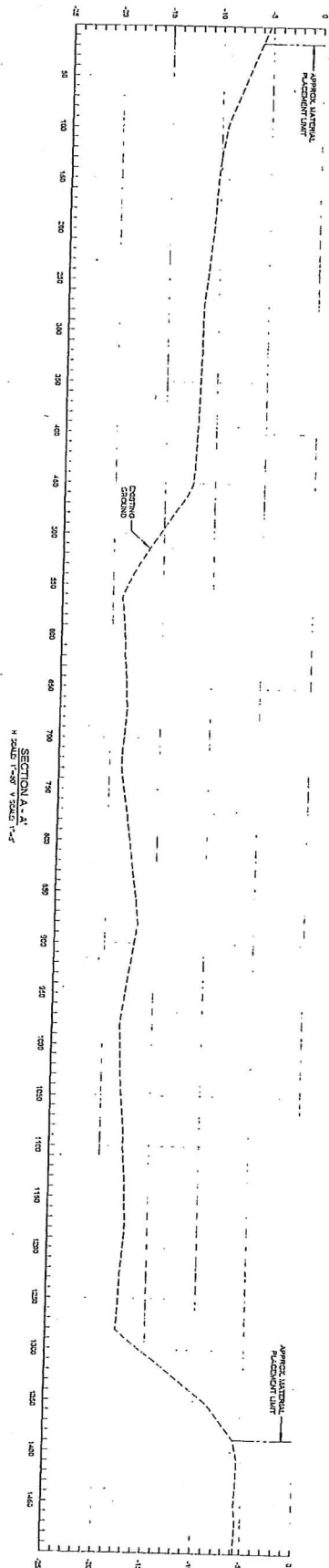
BOROUGH  
OF  
LAYALLETTE

PARSONS BRINCKERHOFF		DATE	BY	REV
PROJECT: LAYALLETTE BEACH CHANNEL				
SHEET: 14 OF 15				
DRAWN BY: J. J. JONES				
CHECKED BY: J. J. JONES				
DATE: APRIL 2017				
IN CHARGE: J. J. JONES				

STATE OF NEW JERSEY  
NJDOT OFFICE OF MARITIME RESOURCES  
TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS  
FOR LAYALLETTE BEACH CHANNEL  
DREDGED HOLE #25 PLACEMENT PLAN



DREDGED HOLE #25		
STORAGE VOLUMES		
ELEVATION (DAVE)	STORAGE (CU)	
-29.00 -29	1.00	
-29.00 -28	1.00	
-28.00 -27	1.00	
-27.00 -26	1.00	
-26.00 -25	1.00	
-25.00 -24	1.00	
-24.00 -23	1.00	
-23.00 -22	1.00	
-22.00 -21	1.00	
-21.00 -20	1.00	
-20.00 -19	1.00	
-19.00 -18	1.00	
-18.00 -17	1.00	
-17.00 -16	1.00	
-16.00 -15	1.00	
-15.00 -14	1.00	
-14.00 -13	1.00	
-13.00 -12	1.00	
-12.00 -11	1.00	
-11.00 -10	1.00	
-10.00 -9	1.00	
-9.00 -8	1.00	
-8.00 -7	1.00	
-7.00 -6	1.00	
-6.00 -5	1.00	
-5.00 -4	1.00	
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-3.00 -2	1.00	
-2.00 -1	1.00	
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LEGEND

--- EXISTING GROUND

--- EXISTING CHANNEL BED

--- EXISTING CHANNEL BANK

--- EXISTING CHANNEL SHOULDER

--- EXISTING CHANNEL DITCH

--- EXISTING CHANNEL FILL

--- EXISTING CHANNEL WALL

--- EXISTING CHANNEL PILE

--- EXISTING CHANNEL POST

--- EXISTING CHANNEL RAIL

--- EXISTING CHANNEL CABLE

--- EXISTING CHANNEL PIPE

--- EXISTING CHANNEL CONDUIT

--- EXISTING CHANNEL DUCT

--- EXISTING CHANNEL TUBE

--- EXISTING CHANNEL SHEATH

--- EXISTING CHANNEL COVER

--- EXISTING CHANNEL LINER

--- EXISTING CHANNEL FLOOR

--- EXISTING CHANNEL CEILING

--- EXISTING CHANNEL ROOF

--- EXISTING CHANNEL WALL

--- EXISTING CHANNEL FLOOR

--- EXISTING CHANNEL CEILING

--- EXISTING CHANNEL ROOF

STATE OF NEW JERSEY  
NJDOT OFFICE OF MARITIME RESOURCES

TITLE: MAINTENANCE DREDGING AND CHANNEL IMPROVEMENTS  
FOR L'AVALLÉE BEACH CHANNEL

DREDGED HOLE #25 CROSS SECTIONS

DESIGNED BY	BRINCKERHOFF
CHECKED BY	BRINCKERHOFF
DATE	APRIL 2014
SCALE	AS SHOWN
NO. OF SHEETS	10
SHEET NO.	10