



120 Log Yard Lane, Townsend, DE 19734
302-376-1709

February 8, 2023

Municipal Clerk
Township of Greewich
420 Washington Street, Gibbstown, NJ 08027

**RE: 285 Swedesboro Avenue, Greenwich, Gloucester County, New Jersey (Block 171, Lots 1, 1.01, 2, and 3, and Block 169, Lot 28
NJDEP Letter of Interpretation (LOI) Application**

This letter is to provide you with legal notification that an application for a Freshwater Wetlands letter of interpretation (LOI) has been submitted to the New Jersey Department of Environmental Protection, Division of Land Use Regulation. In accordance with the requirements of N.J.A.C. 7:7A-17.3(a), please find a copy of the NJDEP Application enclosed.

Sincerely,

Shawn L. Shotzberger

Vice-President
Delmarva Aquatic and Wetland Services, LLC

Enclosure

Attachment A

Completed USACE Wetland Determination Data Forms for 285 Swedesboro Avenue, etc. Greenwich Township, NJ



Figure 7 - Wetland points (###) and lines (green polygon) for the December 8, 2022 field delineation. Representative photo locations for the photographs presented in Attachment B are also identified by labeled orange arrows. Scale and north as shown.



Figure 6 - NJDEP 2012 Wetland Mapping (blue polygons) for the site, as screenshot from NJDEP GeoWEB online environmental mapping utility (<https://nj.gov/deo/gis/geoweb splash.htm>)



Figure 5 - National Wetland Inventory mapping for the 285 Swedesboro Avenue site (yellow polygon). Scale and north as shown.



Figure 4 - NRCS soil survey map showing the soil units (light blue polygons and labels) mapped on the 285 Swedesboro Avenue site (yellow polygon). Scale and north as shown. WokA: Woodstown-Glassboro complex, 0 to 2 percent slopes, SacB: Sassafras sandy loam, 2 to 5 percent slopes, FamA: Fallsington sandy loams, 0 to 2 percent slopes, and UR: Urban land

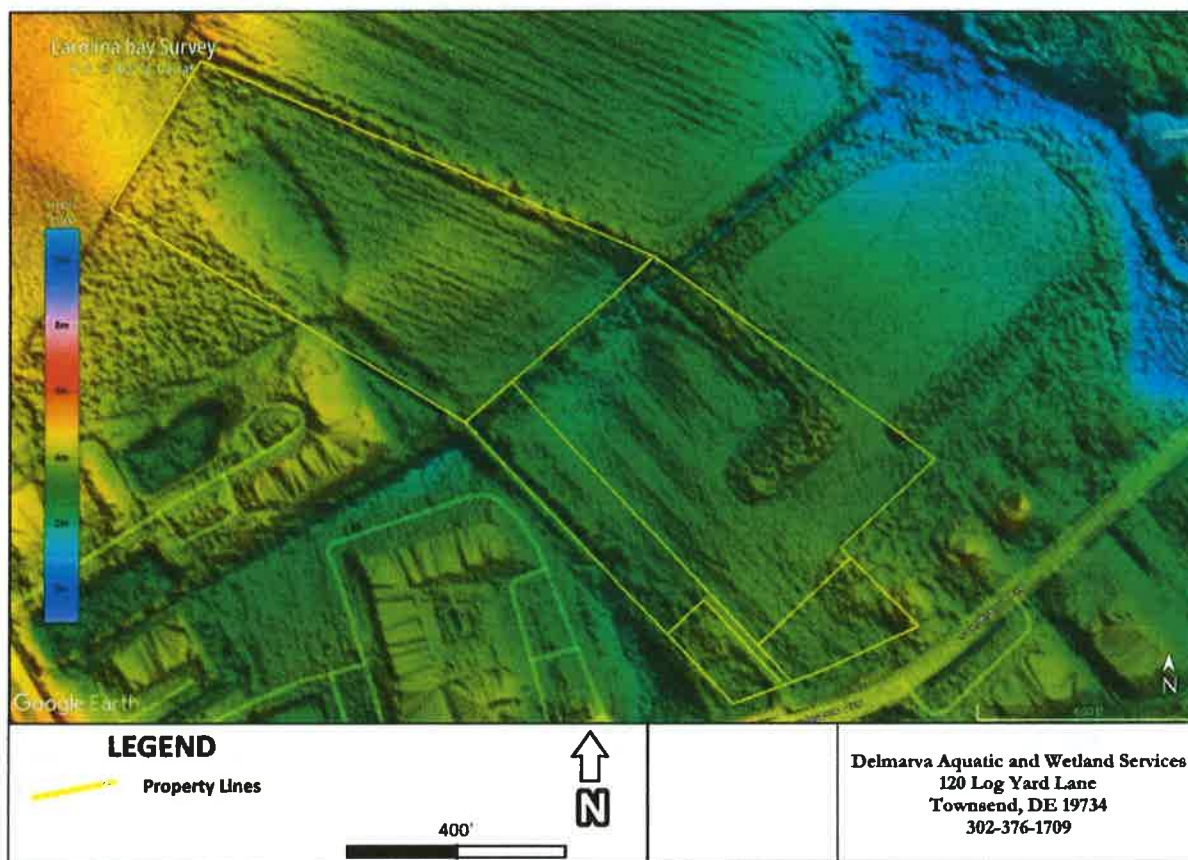


Figure 3 - False color LiDAR imagery showing elevation features of the 285 Swedesboro Avenue site (yellow polygon). In this image, blues are lower in elevation and yellows and oranges are higher. Scales and north as shown.



Figure 2 - Google Earth™ aerial image showing approximate property boundary (yellow polygon) for the 285 Swedesboro Avenue site. Scale and north as shown.

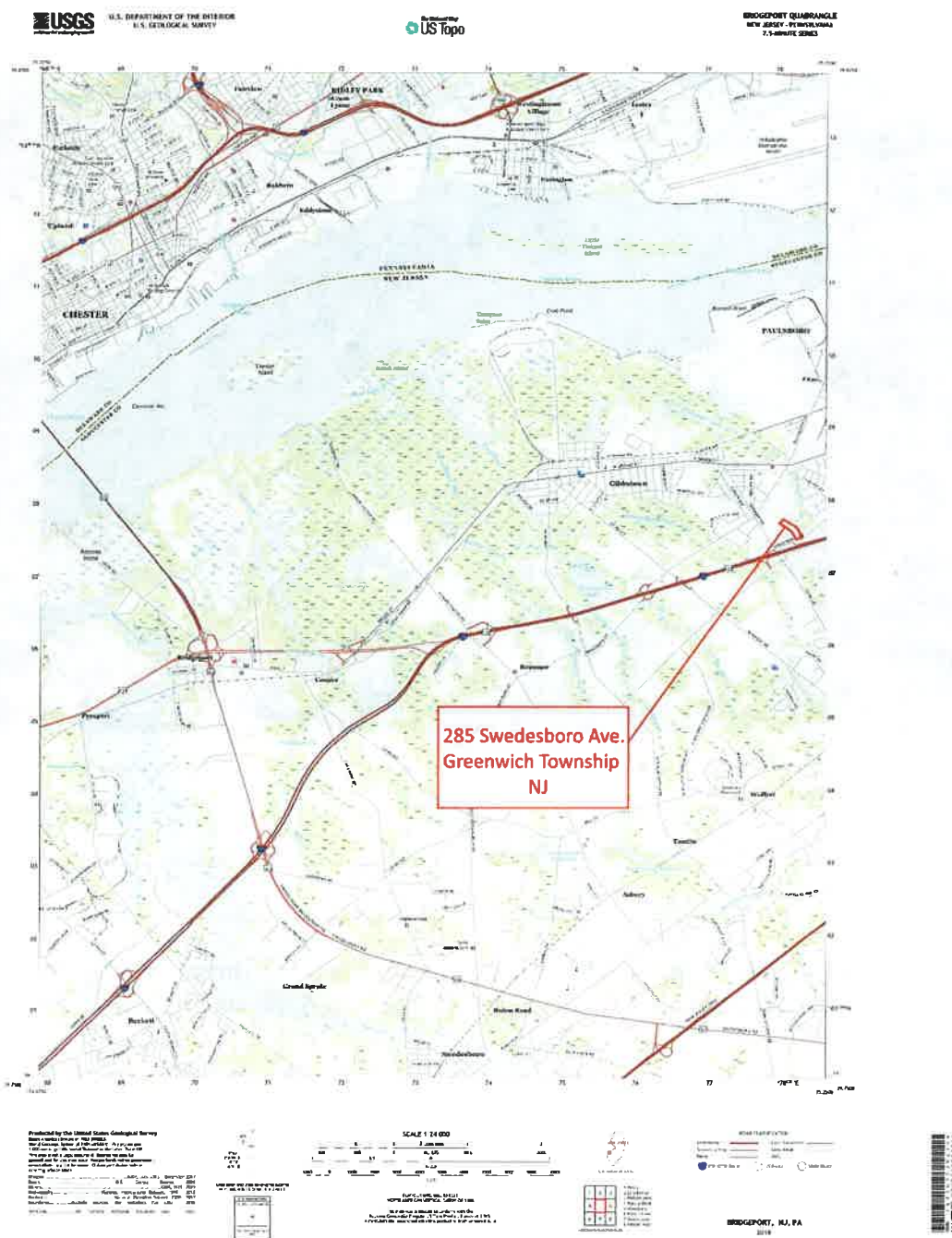


Figure 1 – USGS 7.5 Minute Quadrangle (Bridgeport, NJ) showing the subject parcels.



State of New Jersey
Department of Environmental Protection
Division of Land Resource Protection

Application Form for Permit(s)/Authorization(s)
501 E. State Street Mail Code 501-02A P.O. Box 420
Trenton, NJ 08625-0420

Phone #: (609) 777-0454 Web: www.nj.gov/dep/landuse



Please print legibly or type the following: Complete all sections and pages unless otherwise noted.

Initial Application ☒ Response to DLUR Deficiency ☐ Extension / Modification ☐

Is this project a NJDOT Priority 2 Repair Project? Yes ☐ No ☒

1. Applicant Name: Mr./Ms./Mrs. Jeffrey Bisk E-Mail: njretailer@yahoo.com
Address: 1441 Route 38 Daytime Phone: 609.980.5000 Ext. _____
City/State: Hainesport, NJ Zip Code: 08036-2980 Cell Phone: _____

2. Agent Name: Mr./Ms./Mrs. Shawn L. Sholtzberger E-Mail: DelmarvaAWS@gmail.com
Firm Name: Delmarva Aquatic and Wetland Services, LLC Daytime Phone: 302-376-1709 Ext. _____
Address: 120 Log Yard Lane Zip Code: 19734 Cell Phone: 302-373-1770
City/State: Townsend, DE

3. Property Owner: Mr./Ms./Mrs. Jeffrey Bisk E-Mail: njretailer@yahoo.com
Address: 1441 Route 38 Daytime Phone: 609.980.5000 Ext. _____
City/State: Hainesport, NJ Zip Code: 08036-2980 Cell Phone: _____

4. Project Name: 285 Swedesboro Avenue Address/Location: 285 Swedesboro Avenue
Municipality: Greenwich Township County: Gloucester Zip Code: 08027
Block(s): B 169, L 28 & B 171, Ls 1, 1.01, 2, 3 Lot(s): B 169, L 28 & B 171, Ls 1, 1.01, 2, and 3
N.A.D. 1983 State Plane Coordinates (feet) E(x): 280268 N(y): 359557 Not Longitude/Latitude
Watershed: 02040202140 - Cedar Sw. / Reapaupo Ck / Clonmell Ck Subwatershed: 02040202140010 - Lower Delaware
Nearest Waterway: Clonmell Creek

5. Project Description: _____

Provide if applicable: Previous LUR File # (s): _____ Waiver request ID # (s): _____

A. SIGNATURE OF APPLICANT (required):

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining and preparing the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment. If the applicant is an organization such as a corporation, municipal entity, home-owners association etc., the party responsible for the application shall sign on behalf of the organization.

Signature of Applicant

Managing Member, Capri Associates LLC

Position/Title (if not individual property owner)

Date

Jeffrey Bisk, Managing Member

Print Name

Signature of Applicant

Position/Title (if not individual property owner)

Date

Print Name

PROPERTY OWNER'S CERTIFICATION

I hereby certify that the undersigned is the **owner of the property** upon which the proposed work is to be done. This endorsement is certification that the owner/easement holder grants permission for the conduct of the proposed activity. In addition, written consent is hereby given to allow access to the site by representatives or agents of the Department for the purpose of conducting a site inspection(s) or survey(s) of the property in question.

In addition, the undersigned property owner hereby certifies:

1. Whether any work is to be done within an easement? Yes ☐ No ☐
(If answer is "Yes" – Signature/title of responsible party is required below)
2. Whether any part of the entire project will be located within property belonging to the State of New Jersey? Yes ☐ No ☐
3. Whether any work is to be done on any property owned by any public agency that would be encumbered by Green Acres? Yes ☐ No ☐
4. Whether this project requires a Section 106 (National Register of Historic Places) Determination as part of a federal approval? Yes ☐ No ☐



Signature of Owner

Date
Jeffrey Bisk, Managing Member

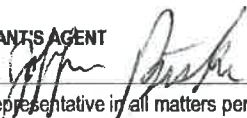
Print Name/Title

Signature of Owner/Easement Holder

Date

Print Name/Title

B. APPLICANT'S AGENT

I,  the Applicant/Owner and _____, co-Applicant/Owner authorize to act as my agent/representative in all matters pertaining to my application the following person:

Shawn L. Shozberger

Name of Agent
Vice-President, Wetland Scientist

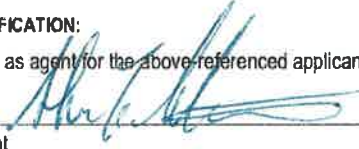
Occupation/Profession of Agent

Signature of Applicant/Owner

Signature of co-Applicant/Owner

AGENT'S CERTIFICATION:

I agree to serve as agent for the above-referenced applicant:



Signature of Agent

Delmarva Aquatic and Wetland Services, LLC

Name of Firm

C. STATEMENT OF PREPARER OF PLANS, SPECIFICATIONS, SURVEYOR'S OR ENGINEER'S REPORT

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining and preparing the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.



Signature
Frank G. Whittaker

Print Name
Frank G. Whittaker, PLS

Position & Name of Firm
NJ- 38945

Professional License # Date 1/28/23

D. STATEMENT OF PREPARER OF APPLICATION, REPORTS AND/OR SUPPORTING DOCUMENTS (other than engineering)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining and preparing the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

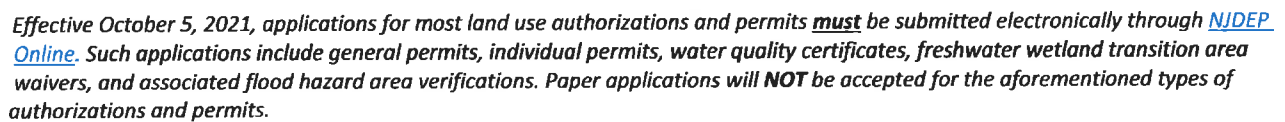


Signature
Shawn L. Shozberger

Print Name
Vice-President, DAWS

Position & Name of Firm

Professional License # Date 2/5/23



FEE CALCULATION TIPS:

- Whenever the calculation requires an acreage figure (including the Stormwater calculations), you will need to round **UP** to the nearest whole number, for example: 0.25 acres gets rounded up to one (1) acre or 2.61 acres gets rounded up to three (3) acres.
- The stormwater review fee is applied only one time per project, maximum of \$20,000, regardless of multiple applications.

	Coastal Applications	Fee Amount	Fee Paid
☐	Modification of a Coastal GP	\$500	
☐	Minor Technical Modification of a Coastal Wetland Permit	$\$500 \times \frac{\text{# of items to be revised}}{1}$	
☐	Minor Technical Modification of a CAFRA IP	$\$500 \times \frac{\text{# of items to be revised}}{1}$	
☐	Minor Technical Modification of a Waterfront IP	$\$500 \times \frac{\text{# of items to be revised}}{1}$	
☐	Major Technical Modification of a Coastal Wetland Permit	$0.30 \times \text{original fee} = \text{Fee (Minimum \$500)}$	
☐	Major Technical Modification of a CAFRA IP	$0.30 \times \text{original fee} = \text{Fee (Minimum \$500)}$	
☐	Major Technical Modification of a Waterfront IP	$0.30 \times \text{original fee} = \text{Fee (Minimum \$500)}$	
☐	Zane Letter (Waterfront Development Exemption)	\$500	
☐	CAFRA Exemption Request	\$500	
☐	CZM General Permit Extension	$\$240 \times \frac{\text{# of GPs to be extended}}{1}$	
☐	Waterfront Development Individual Permit – Extension (Waterward of MHWL)	$0.25 \times \text{original fee} = \text{Fee (Maximum \$3,000)}$	
☐	Meadowlands District Water Quality Certificate	$\$5,000 + (\$2,500 \times \frac{\text{# acres regulated area disturbed}}{1})$	
☐	Individual Permit Equivalency/CERCLA	No Fee	

	Consistency Determination	Fee Amount	Fee Paid
☐	Water Quality Certificate (NOTE: No fee required under the coastal program when reviewed in conjunction with a WFD permit))	\$5,000 + (\$2,500 x _____ # acres regulated area disturbed)	
☐	Federal Consistency	No Fee	

	Applicability Determinations	Fee Amount	Fee Paid
☐	Coastal Applicability Determination	No Fee	No Fee
☐	Flood Hazard Applicability Determination	No Fee	No Fee
☐	Highlands Jurisdictional Determination	No Fee	No Fee
☐	Executive Order 215	No Fee	No Fee

	Letter of Interpretation	Fee Amount	Fee Paid
☐	LOI Presence Absence	\$1,000.00	
☐	LOI Footprint of Disturbance (3 Maximum)	\$1,000.00 each	
☐	LOI Delineation < 1.00 Acres	\$1,000.00	
☒	LOI Verification	\$1,000 + (\$100 x <u>15.6</u> # of acres of the site)	\$2,600
☐	LOI Partial Site Verification	\$1,000 + (\$100 x _____ # of acres of the site subject to LOI)	
☐	LOI Extension Presence/Absence, Footprint, Delineation < 1 acre (Re-Issuance)	\$500	
☐	LOI Extension Line Verification (Re-Issuance)	0.50 x _____ original fee (Minimum \$500)	

	Freshwater Wetlands Authorizations	Fee Amount	Fee Paid
☐	FWGP Administrative Modification	No fee	
☐	FWGP Minor technical modification	\$500.00	
☐	FWGP Major technical modification	\$500.00	
☐	Individual Permit Administrative Modification	No Fee	
☐	Individual Permit Minor Technical Modification	\$500.00	
☐	Individual Permit Major Technical Modification	0.30 x _____ original fee (Minimum \$500)	
☐	TAW Administrative Modification	No Fee	
☐	TAW Minor Technical Modification	\$500.00	
☐	TAW Major Technical Modification	0.30 x _____ original fee (Minimum \$500)	
☐	FWGP Extension	\$500 x _____ # of items to be extended	
☐	Individual Permit/Open Water Permit Extension	0.30 x _____ original fee (Minimum \$500)	
☐	TAW Extension	\$500 x _____ # of items to be extended	
☐	Freshwater Wetlands Exemption	\$500.00	
☐	TAW Exemption	\$500.00	
☐	Permit Equivalency/CERCLA	No Fee	

APPLICATION(S) FOR: Please check each permit/authorization that you are applying for and fill in the calculated fee (for each) in the "Fee Paid" column

	Flood Hazard Area Authorizations	Fee Amount	Fee Paid
☐	FHA GP Administrative Modification	No Fee	No Fee
☐	FHA GP Minor technical modification	\$500 x _____ # of project elements to be revised	
☐	FHA GP Major technical modification	0.30 x _____ original fee (Minimum \$500)	
☐	FHA Individual Permit Administrative Modification	No Fee	No Fee
☐	FHA Individual Permit Minor Technical Modification	\$500 x _____ # of project elements to be revised	
☐	FHA Individual Permit Major Technical Modification	0.30 x _____ original fee (Minimum \$500)	
☐	FHA Verification Administrative Modification	No Fee	No Fee
☐	FHA Verification Minor Technical Modification	\$500 x _____ # of project elements to be revised	
☐	FHA Verification Major Technical Modification	0.30 x _____ original fee (Minimum \$500)	
☐	FHA GP Extension	\$240	
☐	FHA Individual Permit Extension	0.25 x _____ original fee	
☐	FHA Verification Extension of Methods 1, 2, 3, 5, or Riparian Zone Only	\$240	
☐	FHA Verification Extension of Methods 4 or 6	0.25 x _____ original fee	
☐	FHA Individual Permit Equivalency/CERCLA	No Fee	No Fee

NOTE: Flood Hazard verifications may be submitted via a paper application **ONLY** when not submitted in conjunction with any permit/authorization required to be submitted electronically.

	Flood Hazard Area Verifications	Fee Amount	Fee Paid
☐	Verification-Delineation of Riparian Zone Only	\$1,000	
☐	Verification-Method 1 (DEP Delineation) *	\$1,000	
☐	Verification-Method 2 (FEMA Tidal Method) *	\$1,000	
☐	Verification-Method 3 (FEMA Fluvial Method) *	\$1,000	
☐	Verification-Method 4 (FEMA Hydraulic Method)	\$4,000 + (\$400 x per 100 linear feet)	
☐	Verification-Method 5 (Approximation Method)*	\$1,000	
☐	Verification-Method 6 (Calculation Method)	\$4,000+(\$400 x per 100 linear feet)	

*Fee not applicable to (1) SFH

	Stormwater Review Fee (Maximum Fee = \$20,000)	Fee Amount	Fee Paid
☐	Stormwater Review (Fee is calculated by adding the base fee to the specific elements below)	\$3,000 Base Fee	
	Review of Groundwater Calculations	+ \$250 x _____ # acres disturbed	
	Review of Runoff Quantity Calculations	+ \$250 x _____ # acres disturbed	
	Review of Water Quality Calculations	+ \$250 x _____ # acres impervious surface	
	Total	Stormwater Review Fee	

	Highlands Authorizations*	Fee Amount	Fee Paid
☐	Pre-application Meeting	\$500.00	
☐	Resource Area Determination Boundary Delineation < one acre	\$500.00	
☐	Resource Area Footprint of Disturbance	\$500 + (\$50 x _____ # of acres of the site)	
☐	Resource Area Determination Verification (> one acre)	\$750 + (\$100 x _____ # of acres of the site)	
☐	Resource Area Determination Extension	0.25 x _____ original fee (Minimum \$250)	
☐	Preservation Area Approval (PAA)		
☐	PAA with Waiver (Specify type below)		
	Waiver Type:		
☐	HPAAGP 1/ Habitat Creation/Enhance	No Fee	No Fee
☐	HPAAGP 2 Bank Stabilization	\$500	
☐	HPAA Extension	\$1,000	

*Highlands Applicability Determinations (HAD Exemptions) use a different form available at www.nj.gov/deplanduse/forms.html

TOTAL FEE:	\$2,600.00
CHECK NUMBER:	

APPLICANT NAME: _____

FILE # (if known): _____

APPLICATION FORM - APPENDIX I

Section 1: Please provide the following information for the overall project site. All area measurements shall be recorded **in acres to the nearest thousandth** (0.001 acres).

<u>PROPOSED:</u>	<u>PRESERVED</u>	<u>UNDISTURBED</u>	<u>DISTURBED</u>
<i>RIPARIAN ZONE</i>	_____	_____	_____
<i>CZMRA FORESTED</i> <i>(CZMRA IP – Only)</i>	_____	_____	_____
<i>E & THABITAT</i> <i>Endangered and/or Threatened</i>	_____	_____	_____
<i>FRESHWATER WETLANDS</i>	_____	_____	_____

Section 2: Please provide the following information for each permit/authorization requested pursuant to the Freshwater Wetlands Protection Act. All area measurements shall be recorded **in acres to the nearest thousandth** (0.001 acres). Use additional sheets if necessary

PERMIT TYPE	WETLAND TYPE <i>Emergent, Forest, Shrub, Etc.</i>	RESOURCE CLASSIFICATION <i>Ordinary, Intermediate, Exceptional, EPA, Etc.</i>
<u>PROPOSED DISTURBANCE:</u>	<u>WETLANDS</u>	<u>TRANSITION AREA</u>
<i>FILLED</i>	_____	_____
<i>EXCAVATED</i>	_____	_____
<i>CLEARED</i>	_____	_____
<i>TEMPORARY DISTURBANCE</i>	_____	_____

PERMIT TYPE	WETLAND TYPE <i>Emergent, Forest, Shrub, Etc.</i>	RESOURCE CLASSIFICATION <i>Ordinary, Intermediate, Exceptional, EPA, Etc.</i>
<u>PROPOSED DISTURBANCE:</u>	<u>WETLANDS</u>	<u>TRANSITION AREA</u>
<i>FILLED</i>	_____	_____
<i>EXCAVATED</i>	_____	_____
<i>CLEARED</i>	_____	_____
<i>TEMPORARY DISTURBANCE</i>	_____	_____

LURP Fee – LOI Line Verification

**285 Swedesboro Avenue, etc.
Greenwich Township, NJ**

THIS DOCUMENT HAS A COLORED BACKGROUND AND HIGH RESOLUTION BORDER. THE REVERSE SIDE OF THIS DOCUMENT HAS AN ARTIFICIAL WATERMARK.

Capri Associates LLC
1441 Rt. 38
Hainesport NJ 08036

Fulton Bank
P.O. Box 4887
Lancaster PA 17604

261
60-142 86/313

Pay to the
Order of

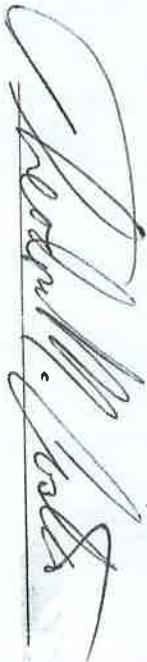
State of New Jersey
Two Thousand Six Hundred Dollars

Date 1-11-2023

2600.XX

Dollars

THIS CHECK IS DELIVERED IN CONNECTION WITH THE FOLLOWING ACCOUNT(S)



⑆031301422⑆0094166265⑆0261

Proof of Public Notice – LOI Application

**285 Swedesboro Avenue, etc.
Greenwich Township, NJ**



Gloucester County - Office of Taxation

Created On 12/21/2022

Certified Adjoining Property List

This table is a listing of adjoining properties within 200' of the subject property.

Prepared by: Craig Black, CTA

Selected Parcel(s)

Municipality	Block	Lot	Qualifier	Address	Owner Name	Owner Address	Owner CSZ	Additional Lots
Greenwich Township	171	1		285 SWEDESBORO AVE	CAPRI ASSOCIATES LLC	1441 ROUTE 38	HAINESPORT, NJ 08036	1.01
Greenwich Township	171	2	QFARM	SWEDESBORO AVE	CAPRI ASSOCIATES LLC	1441 ROUTE 38	HAINESPORT, NJ 08036	3,3.04
Greenwich Township	171	3.01	QFARM	SWEDESBORO AVE	SET, LLC	356 SWEDESBORO RD	MICKLETON, NJ 08056	

Adjoining Properties (26)

Municipality	Block	Lot	Qualifier	Address	Owner Name	Owner Address	Owner CSZ	Additional Lots
East Greenwich Township	202	1		356 SWEDESBORO AVE	SET LLC	356 SWEDESBORO AVE	MICKLETON, NJ 08056	
East Greenwich Township	202	1.01		362 SWEDESBORO AVE	SET LLC	356 SWEDESBORO AVE	MICKLETON, NJ 08056	
East Greenwich Township	202	1.02		368 SWEDESBORO AVE	295 RENTAL ASSOC % KARL O BAKER SR	50 WAGNER AVE	DEPTFORD, NJ 08096	
East Greenwich Township	202	2		350 SWEDESBORO AVE	STORAGE WORLD OF NJ LLC	1 CARAMIST DR	SINKING SPRING, PA 19608	
Greenwich Township	169	11	QFARM	SWEDESBORO RD	HACK, BARBARA L & PARADISE, FRANK J	1198 BROADWAY	WESTVILLE, NJ 08093	
Greenwich Township	169	27.01		299 SWEDESBORO AVE	STAR MANAGEMENT LLC	299 SWEDESBORO AVE	GIBBSTOWN, NJ 08037	
Greenwich Township	169	28	QFARM	HARMONY RD	CAPRI ASSOCIATES LLC	1441 ROUTE 38	HAINESPORT, NJ 08036	
Greenwich Township	170	3		425 MARIA AVE	AILES, DANA JEAN	644 ROSENTHAL AVE	GIBBSTOWN, NJ 08027	
Greenwich Township	171	1.01		285 SWEDESBORO AVE	CAPRI ASSOCIATES LLC	1441 ROUTE 38	HAINESPORT, NJ 08036	1.01
Greenwich Township	171	3	QFARM	SWEDESBORO AVE	CAPRI ASSOCIATES LLC	1441 ROUTE 38	HAINESPORT, NJ 08036	3,3.04
Greenwich Township	171	3.02		277 SWEDESBORO AVE	KING, DOUGLAS & KIM	277 SWEDESBORO AVE	GIBBSTOWN, NJ 08027	
Greenwich Township	171	3.03		279 SWEDESBORO AVE	ESTRELLA HERRERA, ANA G	1837 119TH ST APT 1N	COLLEGE POINT, NY 11356	
Greenwich Township	171	3.04	QFARM	SWEDESBORO AVE	CAPRI ASSOCIATES LLC	1441 ROUTE 38	HAINESPORT, NJ 08036	3,3.04
Greenwich Township	180	4		352 CROCE AVE	SANDERS, JANET P	352 CROCE AVE	GIBBSTOWN, NJ 08027	



**TOWNSHIP OF GREENWICH
COUNTY OF GLOUCESTER**

**420 WASHINGTON STREET, GIBBSTOWN, NEW JERSEY 08027
TELEPHONE: (856) 423-1038 FAX: (856) 423-2989**

December 28, 2022

VIA EMAIL & REGULAR MAIL

Theodore M. Costa, Esquire
Costalaw LLC
1441 Route 38 West
Hainesport, NJ 08036

Re: Block 169, Lot 28; Block 171, Lots 1, 2, 3.01

Dear Mr. Costa:

Enclosed please find a list of the property owners within 200 feet of the above referenced property located in the Township of Greenwich, New Jersey, together with the Utilities List. Thank you for your check No. 250 in the amount of \$40 for same.

The information provided has been extracted from the tax maps of the Township of Greenwich and the current tax duplicate. This list was completed by the Gloucester County Assessor's Office.

If you have any questions, please do not hesitate to contact me.

Sincerely,

/s/ Suzanne

Suzanne D. Pierce, CTC

sdp

Enclosures

H:\My Documents\200' LISTS\2022\Letter to Theodore costa w 200' list 169-28 and others 122822.docx



**TOWNSHIP OF GREENWICH
COUNTY OF GLOUCESTER**

420 WASHINGTON STREET, GIBBSTOWN, NEW JERSEY 08027
TELEPHONE: (856) 423-1038 FAX: (856) 423-2989

Please include the following Utility Companies on the list:

Manager of R/E & R/W
Connectiv Power Services
5100 Harding Hwy, Suite 399
Mays Landing, NJ 08330

Engineering Manager
South Jersey Gas Co.
1 South Jersey Plaza
Hammonton, NJ 08037

Comcast Cable Co
1846 N. W. Blvd.
Vineland, NJ 08360
Attn: James Parkinson

Public Service Electric & Gas Co.
Manager-Corporate Properties
80 Park Plaza, T6B
Newark, NJ 07012

If the above property listed also fronts on any State or County Highway you must also notify the authorities below:

NJ State Department of Transportation
Planning Division
PO Box 600
Trenton, NJ 08625-0600

Gloucester County Dept. of Public Works
Planning Division
Rt. 47 Delsea Drive
Clayton, NJ 08312

If the property is within 200 feet of another municipality, you must also notify the Township Clerk of that municipality and request 200' list of properties from that municipality.

Date Certified

<u>Municipality</u>	<u>Block</u>	<u>Lot</u>	<u>Qualifier</u>	<u>Address</u>	<u>Owner Name</u>	<u>Owner Address</u>	<u>Owner CSZ</u>	<u>Additional Lots</u>
Greenwich Township	180	5		268 CRESCENT AVE	MAGAZU, HARRY H	268 CRESCENT AVE	GIBBSTOWN, NJ 08027	
Greenwich Township	180	6		260 CRESCENT AVE	WOOD, JAMES D	260 CRESCENT AVE	GIBBSTOWN, NJ 08027	
Greenwich Township	180	7		252 CRESCENT AVE	CARR, TAMMY M & POWELL, TYREEK D	252 CRESCENT AVE	GIBBSTOWN, NJ 08027	
Greenwich Township	183	1		267 CRESCENT AVE	GARGANO, MICHAEL V	267 CRESCENT AVE	GIBBSTOWN, NJ 08027	
Greenwich Township	183	2		261 CRESCENT AVE	O'DONNELL, WILLIAM & MELISSA	261 CRESCENT AVE	GIBBSTOWN, NJ 08027	
Greenwich Township	183	3		255 CRESCENT AVE	GLAZAR, TIMOTHY D & CATHERINE A	255 CRESCENT AVE	GIBBSTOWN, NJ 08027	
Greenwich Township	183	13		269 SWEDESBO RO AVE	OUNJIAN, LAUREN & BROWN, CHRISTINE	269 SWEDESBO RO AVE	GIBBSTOWN, NJ 08027	14&15
Greenwich Township	183	14		269 SWEDESBO RO AVE	OUNJIAN, LAUREN & BROWN, CHRISTINE	269 SWEDESBO RO AVE	GIBBSTOWN, NJ 08027	14&15
Greenwich Township	183	15		269 SWEDESBO RO AVE	OUNJIAN, LAUREN & BROWN, CHRISTINE	269 SWEDESBO RO AVE	GIBBSTOWN, NJ 08027	14&15
Greenwich Township	183	16		265 SWEDESBO RO AVE	LOWE, TAMMY S	265 SWEDESBO RO AVE	GIBBSTOWN, NJ 08027	
Greenwich Township	183	17		259 SWEDESBO RO AVE	MOLONY, SCOTT & QUAINANCE, BRIDGET	7033 ROGERS AVE	PENNSAUKEN, NJ 08109	
Greenwich Township	185	1		248 SWEDESBO RO AVE	BRADLEY, GARY D & RITA C	248 SWEDESBO RO AVE	GIBBSTOWN, NJ 08027	

G. Blair



WETLAND DELINEATION REPORT

285 Swedesboro Avenue
Greenwich Township, NJ 08690

December 2022

Prepared for:

Capri Associates, LLC
1441 Route 38
Hainesport, NJ 08036-2980
DAWS Project Number: 202201029

Prepared by:

Delmarva Aquatic and Wetland Services, LLC
120 Log Yard Lane
Towsend, DE 19734
302-376-1709

www.DelmarvaAWS.com

Shawn L. Sholtzberger

Vice President – Environmental Scientist

Wetland Delineation Report
285 Swedesboro Avenue, Greenwich Township, NJ

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining and preparing the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

A handwritten signature in black ink, appearing to read "Shawn Shotzberger". The signature is fluid and cursive, with a long horizontal stroke at the end.

SHAWN SHOTZBERGER
Environmental Professional

1.0 Introduction

Delmarva Aquatic and Wetland Services, LLC ("DAWS") was contracted to provide wetland delineation services for the properties at approximately 285 Swedesboro Avenue, Hamilton Township, NJ (Figures 1 and 2). The parcels described in this wetland delineation report comprise Block 169, Lot 28 and Block 171, Lots 1, 1.01, 2, and 3 ("Swedesboro Avenue site").

The wetland delineation activities that are described in this report were performed by DAWS wetland scientists in December of 2022. In accordance with N.J.A.C. 7:7A-2.3, field activities to identify and delineate wetlands were performed as outlined in the Federal Manual for Identifying and Delineating Jurisdictional Wetlands (1989 Manual). Wetlands delineated in the field also were consistent with the guidelines outlined in the 1987 United States Army Corps of Engineers (USACE) Wetland Delineation Manual (1987 Manual) and the Atlantic and Gulf Coastal Plain Region (Version 2.0) Supplement (2010). Both manuals use a three parameter analysis of hydrophytic vegetation, hydric soils, and hydrology for wetland determinations.

This report presents descriptions of wetland and upland communities observed at the Swedesboro Avenue site, the methods used in the wetland delineation effort, and the results of the wetland field determination. Attachment A of this report presents USACE wetland determination data forms. Attachment B contains site photographs. Attachment C provides the surveyed wetland boundaries for the Site (including locations of all sample points). Attachment D provides the NRCS Soils Report for the site.

2.0 Site Setting

The Swedesboro Avenue site is located in Greenwich Township in Gloucester County, New Jersey. The site (5 lots) occupies approximately 16 acres of land and is mostly active agricultural field with forested edges. The site is undeveloped and comprises uplands, freshwater wetlands, and other undeveloped areas. Detailed summaries of the wetlands identified on-site are provided below in the Jurisdictional Wetland Determination section of this report.

The site is bounded to the south by Swedesboro Avenue, to the east by agricultural fields and residential lots, to the north by agricultural fields, and to the west by developed commercial properties (e.g., motel, apartments).

3.0 Topography and Drainage

The site is relatively flat, with drainage generally occurring from southwest to northeast. Several drainage ditches affect the site. The most prominent of these enters the site at the southernmost corner near Swedesboro Avenue. This feature appears to collect stormwater and surface water flow from nearby developed properties and roads. The ditch conveys these waters northward along the western property boundary to a point approximately halfway along

the western boundary. From there the ditch turns abruptly eastward and roughly bisects the site. A filled farm road crosses the ditch via culvert at approximately the mid-point of this transverse ditch. At the eastern property edge, the ditch is joined by another (dry) ditch that enters from the south and runs north/south along the eastern property line. After leaving the site to the northeast, the ditch is joined by several others before converging with Clonmell Creek.

Of the subject property, Clonmell Creek flows roughly northwest for around 2.5 miles before discharging to the tidal Delaware River via an outfall structure. At the time of the December 2022 wetland delineation, the main portion of the ditch was full of water and flowing.

4.0 Soils

Figure 4 presents the NRCS mapped soils data for the site. Four soils types occur on the site: WokA: Woodstown-Glassboro complex, 0 to 2 percent slopes, SacB: Sassafras sandy loam, 2 to 5 percent slopes, FamA: Fallsington sandy loams, 0 to 2 percent slopes, and UR: Urban land. Of these soil types, the Fallsington sandy loams are listed as hydric in Gloucester County, New Jersey. Attachment D provides the NRCS Soils Report for the site.

5.0 Vegetation

Dominant tree species on the site include sweetgum (*Liquidambar styraciflua*), red maple (*Acer rubrum*), and American holly (*Ilex opaca*). Agricultural fields were dominated by winter wheat (cover planting).

6.0 Hydrology

Wetland hydrology on the site is described below for the delineated wetland area. In general, the site receives runoff from stormwater conveyances and ditches.

The United States Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) mapping is provided as Figure 5. The New Jersey Department of Environmental Protection (NJDEP) 2012 Wetland Mapping data is provided as Figure 6. The USFWS and NJDEP wetland mapping programs primarily use aerial photography and elevation data to predict the presence of wetlands, rather than on-site observations, and these data should only be used for screening-level guidance.

7.0 Jurisdictional Wetland Determination

Wetland delineation activities were performed on December 8, 2022 to determine the upland-wetland boundaries for freshwater wetland resources occurring at the Swedesboro Avenue site. In accordance with applicable state and federal requirements for wetland delineations, field investigations were performed as outlined in the 1989 Manual (and 1987 Manual and 2010 Supplement). Indicator parameters used to identify the presence of wetlands and assess

their approximate boundaries included the predominance of hydrophytic vegetation, the presence of hydric soils, and the presence of wetland hydrology or wetland hydrology indicators.

Wetland parameter data were collected within wetland and upland areas of the project area. At each data collection point, vegetation was identified and characterized by stratum (herb, shrub, and canopy layer), the soils were described (hue, value, and chroma), and where applicable, evidence of wetland hydrology was noted. Areas meeting all of the technical criteria set forth in the appropriate guidance documents were flagged and numbered to mark a jurisdictional wetland boundary. Subsequently, handheld GPS points were taken along the wetland boundary at each flag and at each data point location. Points were field verified and subsequently certified by a Professional Land Surveyor (PLS). A description of the wetland systems delineated on-site is provided below. Wetland determination data forms are provided as Attachment A. Representative photographs of wetlands occurring onsite are provided in Attachment B. A survey drawing of the wetland boundaries is provided as Attachment C.

During the wetland delineation, freshwater wetland complexes and Waters of the State were identified, flagged, and surveyed with GPS. The flagged areas generally consist of forested wetlands and jurisdictional freshwater ditches and other drainage features located throughout the property. Descriptions of these areas are provided below.

Throughout most of the site, upland areas observed adjacent to delineated wetlands were predominantly vegetated with winter wheat (agricultural ground cover) or sweetgums (*Liquidambar styraciflua*) in forested areas.

Wetland 1

A single contiguous regulated wetland was delineated on the site. The wetland comprises the main drainage ditch along the western site boundary (and associated herbaceous wetlands near Swedesboro Avenue), the forested transverse ditch and a portion of the agricultural field to the south of the transverse ditch, and forested wetlands associated with the ditch near the eastern property boundary. Forested wetlands met all three diagnostic wetland criteria; however, wetland areas delineated in the active agricultural field relied on hydrology and soils due to the winter ground-cover plantings. Wetland vegetation was dominated by facultative (FAC) plants including sweetgum, American holly, and round-leaf greenbriar (*Smilax rotundifolia*). Hydrology was evident by surface water (ditches) and near-surface saturation. Soils at sampled locations exhibited iron concentrations in a depleted matrix, although soils in the active agricultural field were homogeneous down to approximately 16 inches below ground surface (plow zone). USACE wetland data forms for the site are included as Attachment A.

8.0 Classification of Wetlands by Resource Value

Most of the wetland areas observed at the Swedesboro Avenue have formed in topographic low spots associated with agricultural fields and drainage ditches. The NJDEP Landscape

Project Data (V3.3) Piedmont Plains data layer does not indicate any particular species of concern on the properties, and provides mapping data that indicates that portions of the site are "Rank 1 – Habitat Specific Requirements" or "Rank 2 – Special Concern". In light of the absence of specific guidance regarding listed species, the high level of disturbance (agriculture) on the site, and the surrounding land uses, these areas would be subjected to 50-foot transition area due to their "ordinary resource value".

Figures

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: 285 Swedesboro Ave City/County: Gibbstown, Gloucester Sampling Date: 12/8/2022
 Applicant/Owner: Jeffery Bisk State: NJ Sampling Point: W2
 Investigator(s): Shawn Shatzberger Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Coastal plain Local relief (concave, convex, none): None Slope (%): 0
 Subregion (LRR or MLRA): LRR T Lat: 39.818715° Long: -75.255540° Datum: WGS84
 Soil Map Unit Name: FamA: Fallsington sandy loams, 0 to 2 percent slopes NWI classification: PF01Ad

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ Soil ☒ or Hydrology ☐ significantly disturbed? ☒ Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☐ (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☐	No ☒	Is the Sampled Area within a Wetland?	Yes ☒	No ☐
Hydric Soil Present?	Yes ☒	No ☐			
Wetland Hydrology Present?	Yes ☒	No ☐			

Remarks:
 Agricultural field with winter cover plantings (winter wheat grass).

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		
☐ Surface Water (A1)	☐ Aquatic Fauna (B13)	☐ Surface Soil Cracks (B6)
☒ High Water Table (A2)	☐ Marl Deposits (B15) (LRR U)	☐ Sparsely Vegetated Concave Surface (B8)
☒ Saturation (A3)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)
☐ Water Marks (B1)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Moss Trim Lines (B16)
☐ Sediment Deposits (B2)	☐ Presence of Reduced Iron (C4)	☐ Dry-Season Water Table (C2)
☒ Drift Deposits (B3)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)
☐ Algal Mat or Crust (B4)	☐ Thin Muck Surface (C7)	☐ Saturation Visible on Aerial Imagery (C9)
☐ Iron Deposits (B5)	☐ Other (Explain in Remarks)	☐ Geomorphic Position (D2)
☒ Inundation Visible on Aerial Imagery (B7)		☐ Shallow Aquitard (D3)
☐ Water-Stained Leaves (B9)		☐ FAC-Neutral Test (D5)
		☐ Sphagnum moss (D8) (LRR T, U)

Field Observations:		Wetland Hydrology Present? Yes ☒ No ☐
Surface Water Present?	Yes ☐ No ☒ Depth (inches): _____	
Water Table Present?	Yes ☐ No ☒ Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes ☒ No ☐ Depth (inches): <u>4</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Wetlands associated with agricultural drainage ditch

SOIL

Sampling Point: W1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 10	10YR 3/2	100						
10 - 20	10YR 6/2	60	7.5YR 4/6	40	C	m	Sndy Lm	
20 - 24	2.5Y 5/2	75	10YR 6/8	25	C	m	Sndy Lm	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ Organic Bodies (A6) (LRR P, T, U)
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)
☐ Muck Presence (A8) (LRR U)
☐ 1 cm Muck (A9) (LRR P, T)
☒ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Coast Prairie Redox (A16) (MLRA 150A)
☐ Sandy Mucky Mineral (S1) (LRR O, S)
☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Dark Surface (S7) (LRR P, S, T, U)

- ☐ Polyvalue Below Surface (S8) (LRR S, T, U)
☐ Thin Dark Surface (S9) (LRR S, T, U)
☐ Loamy Mucky Mineral (F1) (LRR O)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Marl (F10) (LRR U)
☐ Depleted Ochric (F11) (MLRA 151)
☐ Iron-Manganese Masses (F12) (LRR O, P, T)
☐ Umbric Surface (F13) (LRR P, T, U)
☐ Delta Ochric (F17) (MLRA 151)
☐ Reduced Vertic (F18) (MLRA 150A, 150B)
☐ Piedmont Floodplain Soils (F19) (MLRA 149A)
☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- ☐ 1 cm Muck (A9) (LRR O)
☐ 2 cm Muck (A10) (LRR S)
☐ Reduced Vertic (F18) (outside MLRA 150A,B)
☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)
☐ Anomalous Bright Loamy Soils (F20)
 (MLRA 153B)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

SOIL

Sampling Point: W2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 16	10YR 5/1	100						Plow zone
16 - 24	10YR 6/2	80	2.5Y 5/4	20	C	m	Sndy Lm	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ Organic Bodies (A6) (LRR P, T, U)
☐ 5 cm Mucky Mineral (A7) (LRR P, T, U)
☐ Muck Presence (A8) (LRR U)
☐ 1 cm Muck (A9) (LRR P, T)
☒ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Coast Prairie Redox (A16) (MLRA 150A)
☐ Sandy Mucky Mineral (S1) (LRR O, S)
☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Dark Surface (S7) (LRR P, S, T, U)

- ☐ Polyvalue Below Surface (S8) (LRR S, T, U)
☐ Thin Dark Surface (S9) (LRR S, T, U)
☐ Loamy Mucky Mineral (F1) (LRR O)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Marl (F10) (LRR U)
☐ Depleted Ochric (F11) (MLRA 151)
☐ Iron-Manganese Masses (F12) (LRR O, P, T)
☐ Umbric Surface (F13) (LRR P, T, U)
☐ Delta Ochric (F17) (MLRA 151)
☐ Reduced Vertic (F18) (MLRA 150A, 150B)
☐ Piedmont Floodplain Soils (F19) (MLRA 149A)
☐ Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- ☐ 1 cm Muck (A9) (LRR O)
☐ 2 cm Muck (A10) (LRR S)
☐ Reduced Vertic (F18) (outside MLRA 150A, B)
☐ Piedmont Floodplain Soils (F19) (LRR P, S, T)
☐ Anomalous Bright Loamy Soils (F20)
 (MLRA 153B)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

VEGETATION (Five Strata) – Use scientific names of plants.

 Sampling Point: W2

Tree Stratum (Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: _____ (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
0 = Total Cover 50% of total cover: 0 20% of total cover: 0				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Sapling Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators: ☐ 1 - Rapid Test for Hydrophytic Vegetation ☐ 2 - Dominance Test is >50% ☐ 3 - Prevalence Index is ≤3.0 ¹ ☐ Problematic Hydrophytic Vegetation ¹ (Explain)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
0 = Total Cover 50% of total cover: _____ 20% of total cover: _____				
Shrub Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
0 = Total Cover 50% of total cover: _____ 20% of total cover: _____				
Herb Stratum (Plot size: _____)				
1. <u>Triticum aestivum</u>	<u>50</u>		<u>NC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
50 = Total Cover 50% of total cover: <u>25</u> 20% of total cover: <u>10</u>				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	<u>x</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
0 = Total Cover 50% of total cover: _____ 20% of total cover: _____				Hydrophytic Vegetation Present? Yes ☐ No ☒
Remarks: (If observed, list morphological adaptations below) <u>Vegetation disturbed by agriculture activities. Soils and hydrology used to determine wetland boundaries in Ag field.</u>				

VEGETATION (Five Strata) – Use scientific names of plants.

 Sampling Point: W1

Tree Stratum (Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status															
1. <u>Liquidambar styraciflua</u>	<u>70</u>	<u>x</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)														
2. <u>Ilex opaca</u>	<u>10</u>		<u>FAC</u>															
3. <u>Acer rubrum</u>																		
4. _____																		
5. _____																		
6. _____																		
<u>80</u> = Total Cover 50% of total cover: <u>40</u> 20% of total cover: <u>1+</u>				Prevalence Index worksheet: <table style="width: 100%;"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>200</u></td> <td>x 3 = <u>600</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>200</u> (A)</td> <td><u>600</u> (B)</td> </tr> </tbody> </table> Prevalence Index = B/A = <u>3.0</u>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>200</u>	x 3 = <u>600</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>200</u> (A)	<u>600</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>0</u>	x 1 = <u>0</u>																	
FACW species <u>0</u>	x 2 = <u>0</u>																	
FAC species <u>200</u>	x 3 = <u>600</u>																	
FACU species <u>0</u>	x 4 = <u>0</u>																	
UPL species <u>0</u>	x 5 = <u>0</u>																	
Column Totals: <u>200</u> (A)	<u>600</u> (B)																	
<u>40</u> = Total Cover 50% of total cover: <u>20</u> 20% of total cover: <u>4</u>																		
Sapling Stratum (Plot size: _____)																		
1. <u>Liquidambar styraciflua</u>	<u>15</u>		<u>FAC</u>															
2. <u>Acer rubrum</u>	<u>25</u>	<u>x</u>	<u>FAC</u>															
3. _____																		
4. _____																		
5. _____																		
6. _____																		
<u>40</u> = Total Cover 50% of total cover: <u>20</u> 20% of total cover: <u>4</u>																		
Shrub Stratum (Plot size: _____)																		
1. _____																		
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
<u>0</u> = Total Cover 50% of total cover: _____ 20% of total cover: _____																		
Herb Stratum (Plot size: _____)																		
1. _____																		
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
9. _____																		
10. _____																		
11. _____																		
<u>0</u> = Total Cover 50% of total cover: _____ 20% of total cover: _____																		
Woody Vine Stratum (Plot size: _____)																		
1. <u>Smilax rotundifolia</u>	<u>80</u>	<u>x</u>	<u>FAC</u>															
2. _____																		
3. _____																		
4. _____																		
5. _____																		
<u>80</u> = Total Cover 50% of total cover: <u>40</u> 20% of total cover: <u>16</u>																		
Remarks: (If observed, list morphological adaptations below).																		

Hydrophytic Vegetation Indicators:
☒ 1 - Rapid Test for Hydrophytic Vegetation
☒ 2 - Dominance Test is >50%
☒ 3 - Prevalence Index is ≤3.0¹
☐ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Five Vegetation Strata:

Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vine – All woody vines, regardless of height.

Hydrophytic Vegetation Present? Yes ☒ No ☐

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: 285 Swedesboro Ave City/County: Gibbstown, Gloucester Sampling Date: 12/8/2022
 Applicant/Owner: Jeffery Bisk State: NJ Sampling Point: W1
 Investigator(s): Shawn Sholtzberger Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Coastal plain Local relief (concave, convex, none): None Slope (%): 0
 Subregion (LRR or MLRA): LRR T Lat: 39.819100° Long: -75.255136° Datum: WGS84
 Soil Map Unit Name: FamA: Fallsington sandy loams, 0 to 2 percent slopes NWI classification: PF01Ad

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? ☐ Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? ☐ (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampled Area within a Wetland?	Yes ☒ No ☐
Hydric Soil Present?	Yes ☒ No ☐		
Wetland Hydrology Present?	Yes ☒ No ☐		
Remarks:			

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
☒ Surface Water (A1) ☒ High Water Table (A2) ☐ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☒ Water-Stained Leaves (B9)	☐ Aquatic Fauna (B13) ☐ Marl Deposits (B15) (LRR U) ☐ Hydrogen Sulfide Odor (C1) ☐ Oxidized Rhizospheres along Living Roots (C3) ☐ Presence of Reduced Iron (C4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Thin Muck Surface (C7) ☐ Other (Explain in Remarks)	☐ Surface Soil Cracks (B6) ☐ Sparsely Vegetated Concave Surface (B8) ☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☐ FAC-Neutral Test (D5) ☐ Sphagnum moss (D8) (LRR T, U)	
Field Observations: Surface Water Present? Yes ☒ No ☐ Depth (inches): <u>6</u> Water Table Present? Yes ☒ No ☐ Depth (inches): <u>0</u> Saturation Present? Yes ☒ No ☐ Depth (inches): <u>0</u> (includes capillary fringe)		Wetland Hydrology Present? Yes ☒ No ☐	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Wetlands associated with agricultural drainage ditch			

Attachment B

**Representative Photographs
285 Swedesboro Avenue, etc.
Greenwich Township, NJ**

Photo 1



Wetland Delineation Report – 285 Swedesboro Avenue, etc.
Greenwich Township, NJ

Photo 2



Photo 3



Wetland Delineation Report – 285 Swedesboro Avenue, etc.
Greenwich Township, NJ

Photo 4



Photo 5



Wetland Delineation Report – 285 Swedesboro Avenue, etc.
Greenwich Township, NJ

Attachment C

**Wetland Delineation Site Survey
285 Swedesboro Avenue, etc.
Greenwich Township, NJ**

Attachment D

NRCS Soils Report 285 Swedesboro Avenue, etc. Greenwich Township, NJ



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for **Gloucester County, New Jersey**



December 13, 2022

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

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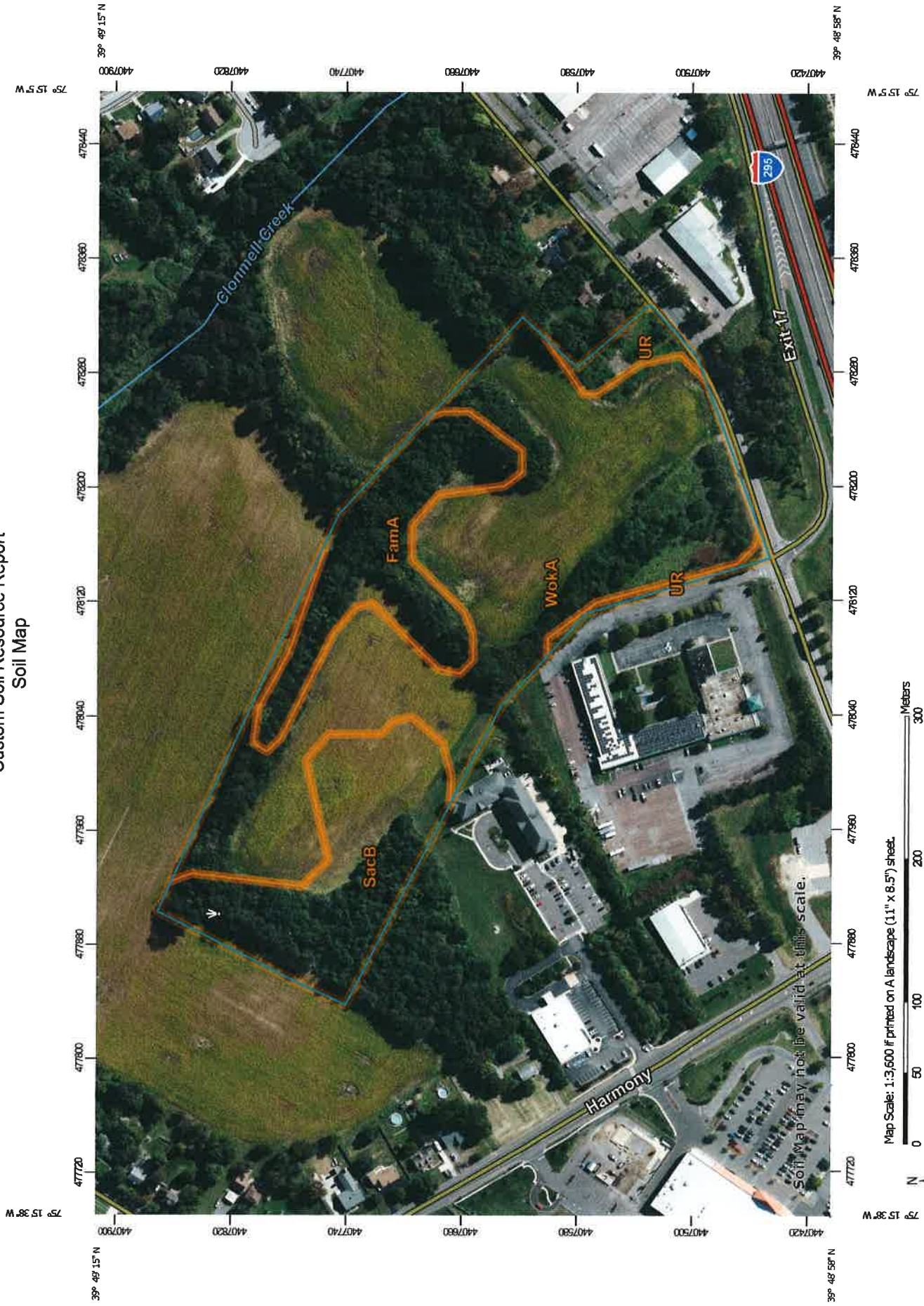
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Map Unit Legend.....	8
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Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map



Map Scale: 1:3,600 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
FamA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	3.5	16.2%
SacB	Sassafras sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	4.4	20.5%
UR	Urban land	0.8	3.8%
WokA	Woodstown-Glassboro complex, 0 to 2 percent slopes	12.9	59.5%
Totals for Area of Interest		21.6	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

MAP LEGEND

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Gloucester County, New Jersey
Survey Area Data: Version 20, Aug 29, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 23, 2020—Oct 14, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Area of Interest (AOI)	
	Area of Interest (AOI)
Soils	
	Soil Map Unit Polygons
	Soil Map Unit Lines
	Soil Map Unit Points
Special Point Features	
	Blowout
	Borrow Pit
	Clay Spot
	Closed Depression
	Gravel Pit
	Gravelly Spot
	Landfill
	Lava Flow
	Marsh or swamp
	Mine or Quarry
	Miscellaneous Water
	Perennial Water
	Rock Outcrop
	Saline Spot
	Sandy Spot
	Severely Eroded Spot
	Sinkhole
	Slide or Slip
	Sodic Spot
Water Features	
	Streams and Canals
Transportation	
	Rails
	Interstate Highways
	US Routes
	Major Roads
	Local Roads
Background	
	Aerial Photography
Other	
	Spoil Area
	Story Spot
	Very Story Spot
	Wet Spot
	Other
	Special Line Features

Custom Soil Resource Report

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Gloucester County, New Jersey

FamA—Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain

Map Unit Setting

National map unit symbol: 2s96w

Elevation: 0 to 100 feet

Mean annual precipitation: 42 to 48 inches

Mean annual air temperature: 52 to 58 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Farmland of statewide importance, if drained

Map Unit Composition

Fallsington, undrained, and similar soils: 48 percent

Fallsington, drained, and similar soils: 27 percent

Minor components: 25 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Fallsington, Undrained

Setting

Landform: Swales, flats, drainageways, depressions

Landform position (three-dimensional): Dip, talf

Down-slope shape: Concave, linear

Across-slope shape: Linear, concave

Parent material: Loamy fluviomarine deposits

Typical profile

Oe - 0 to 2 inches: mucky peat

A - 2 to 10 inches: sandy loam

Btg - 10 to 32 inches: sandy clay loam

BCg - 32 to 39 inches: loamy sand

Cg1 - 39 to 46 inches: sandy clay loam

Cg2 - 46 to 80 inches: sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high
(0.01 to 1.98 in/hr)

Depth to water table: About 0 to 10 inches

Frequency of flooding: None

Frequency of ponding: Occasional

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.3 mmhos/cm)

Available water supply, 0 to 60 inches: Moderate (about 8.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 5w

Hydrologic Soil Group: C/D

Hydric soil rating: Yes

Custom Soil Resource Report

Description of Fallsington, Drained

Setting

Landform: Swales, depressions, flats
Landform position (three-dimensional): Dip, talf
Down-slope shape: Concave, linear
Across-slope shape: Linear, concave
Parent material: Loamy fluviomarine deposits

Typical profile

Ap - 0 to 10 inches: sandy loam
Btg - 10 to 32 inches: sandy clay loam
BCg - 32 to 39 inches: loamy sand
Cg1 - 39 to 46 inches: sandy clay loam
Cg2 - 46 to 80 inches: sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high
(0.01 to 1.98 in/hr)
Depth to water table: About 10 to 20 inches
Frequency of flooding: None
Frequency of ponding: Rare
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.3 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: C/D
Hydric soil rating: Yes

Minor Components

Woodstown

Percent of map unit: 9 percent
Landform: Fluviomarine terraces, depressions, broad interstream divides, flats
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Tread, dip, talf
Down-slope shape: Linear, concave
Across-slope shape: Linear, concave
Hydric soil rating: No

Hammonton

Percent of map unit: 8 percent
Landform: Drainageways, flats
Landform position (three-dimensional): Dip, talf
Down-slope shape: Concave, linear
Across-slope shape: Linear
Hydric soil rating: No

Hambrook

Percent of map unit: 8 percent
Landform: Fluviomarine terraces, flats, depressions
Landform position (two-dimensional): Summit, footslope

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Landform position (three-dimensional): Tread, talf, dip
Down-slope shape: Linear, concave
Across-slope shape: Linear, concave
Hydric soil rating: No

SacB—Sassafras sandy loam, 2 to 5 percent slopes, Northern Coastal Plain

Map Unit Setting

National map unit symbol: 2thxd
Elevation: 0 to 470 feet
Mean annual precipitation: 41 to 49 inches
Mean annual air temperature: 53 to 58 degrees F
Frost-free period: 190 to 250 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Sassafras and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Sassafras

Setting

Landform: Flats, fluviomarine terraces
Landform position (three-dimensional): Riser, rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy fluviomarine deposits

Typical profile

Ap - 0 to 12 inches: sandy loam
Bt1 - 12 to 18 inches: sandy loam
Bt2 - 18 to 28 inches: sandy clay loam
BC - 28 to 40 inches: loamy sand
C1 - 40 to 58 inches: sand
C2 - 58 to 80 inches: sand

Properties and qualities

Slope: 2 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.20 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 7.1 inches)

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Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: B
Hydric soil rating: No

Minor Components

Fallsington, drained

Percent of map unit: 4 percent
Landform: Flats, depressions, swales
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Talf, dip
Down-slope shape: Linear, concave
Across-slope shape: Linear, concave
Hydric soil rating: Yes

Woodstown

Percent of map unit: 4 percent
Landform: Depressions, flats, fluviomarine terraces, broad interstream divides
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Tread, dip, talf
Down-slope shape: Concave, linear
Across-slope shape: Concave, linear
Hydric soil rating: No

Aura

Percent of map unit: 4 percent
Landform: Low hills, fluviomarine terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Nose slope, side slope, riser
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Downer

Percent of map unit: 4 percent
Landform: Flats, knolls, fluviomarine terraces
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Interfluve, riser, rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Hydric soil rating: No

Ingleside

Percent of map unit: 4 percent
Landform: Flats
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

UR—Urban land

Map Unit Setting

National map unit symbol: 15ksz
Elevation: 0 to 170 feet
Mean annual precipitation: 30 to 64 inches
Mean annual air temperature: 46 to 79 degrees F
Frost-free period: 131 to 178 days
Farmland classification: Not prime farmland

Map Unit Composition

Urban land: 95 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Urban Land

Setting

Parent material: Surface covered by pavement, concrete, buildings, and other structures underlain by disturbed and natural soil material

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8s
Hydric soil rating: Unranked

Minor Components

Udorthents

Percent of map unit: 5 percent
Landform: Low hills
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

WokA—Woodstown-Glassboro complex, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 15kv0
Elevation: 0 to 150 feet
Mean annual precipitation: 28 to 59 inches
Mean annual air temperature: 46 to 79 degrees F
Frost-free period: 161 to 231 days
Farmland classification: All areas are prime farmland

Custom Soil Resource Report

Map Unit Composition

Woodstown and similar soils: 70 percent

Glassboro and similar soils: 15 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Woodstown

Setting

Landform: Flats

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Old alluvium and/or sandy marine deposits

Typical profile

Ap - 0 to 8 inches: sandy loam

Bt1 - 8 to 26 inches: sandy loam

Bt2 - 26 to 30 inches: sandy clay loam

Bt3 - 30 to 36 inches: sandy loam

C - 36 to 80 inches: loamy sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Runoff class: Very high

*Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.20 to 2.00 in/hr)*

Depth to water table: About 18 to 42 inches

Frequency of flooding: None

Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 5.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: B

Hydric soil rating: No

Description of Glassboro

Setting

Landform: Drainageways

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Base slope

Down-slope shape: Linear

Across-slope shape: Concave

Parent material: Loamy fluviomarine deposits

Typical profile

Ap - 0 to 11 inches: sandy loam

Bt1 - 11 to 16 inches: sandy loam

Bt2 - 16 to 21 inches: coarse sandy loam

Btg - 21 to 26 inches: coarse sandy loam

Cg - 26 to 40 inches: loamy coarse sand

C1 - 40 to 56 inches: coarse sand

Custom Soil Resource Report

C2 - 56 to 80 inches: gravelly coarse sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat poorly drained

Runoff class: Very high

*Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 6.00 in/hr)*

Depth to water table: About 12 to 18 inches

Frequency of flooding: None

Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 5.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3w

Hydrologic Soil Group: A/D

Hydric soil rating: No

Minor Components

Downer

Percent of map unit: 5 percent

Landform: Low hills

Down-slope shape: Linear

Across-slope shape: Linear

Hydric soil rating: No

Mullica

Percent of map unit: 5 percent

Landform: Flood plains, depressions, drainageways

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Base slope

Down-slope shape: Linear, concave

Across-slope shape: Linear, concave

Hydric soil rating: Yes

Fallsington

Percent of map unit: 5 percent

Landform: Depressions

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Base slope

Down-slope shape: Concave

Across-slope shape: Concave

Hydric soil rating: Yes

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