PETRY ENGINEERING, LLC

155 Passaic Avenue - Fairfield - New Jersey - 07004 - (973) 227-7004 (973) 227-7074 (fax)

LETTER OF TRANSMITTAL

Date: 9/1/17 Job No. **16-0169A**

Hand Deliver [x]
Overnight Delivery [ ]
Mail [ ]

To:
Twsp. Of Verona Municipal Clerk
600 Bloomfield Avenue
Verona, NJ 07044

Attn: **Jennifer Kiernan**

Phone: 973-239-3220

Fax:

Ref: **25 Commerce Court - LOI Application**

Enclosed herewith are the following items:

[x] Plans	[ ] Samples	[ ] Copy of Letter	[ ] Change Order
[ ] Specifications	[ ] Catalogue Cuts	[x] Reports	[ ] Other
[ ] Shop Drawings	[ ] Certifications	[ ] Purchase Order	

These are being transmitted as follows:

[ ] For Approval	[ ] As Requested	[ ] Approved As Noted	[ ] Proposals Due:
[ ] For Your Use	[ ] For Review & Comment	[ ] Revise & Resubmit	

COPIES	DATED	NUMBER	DESCRIPTION
1	8/31/2017		Copy of entire LOI Application Package to NJDEP for:
			25 Commerce Court

REMARKS

CC (Full): NJDEP & Mr. Roger Kruvant
CC (Trans):
FILE:

By: J. Michael Petry, PE

Michael Musca 9/1/17

State of New Jersey
Department of Environmental Protection
Land Use Regulation Program
Mail Code 501-02A
PO Box 420
Trenton, NJ 08625-0420
Fax# (609)-777-3656
www.nj.gov/dep/landuse/

FRESHWATER WETLANDS LETTER OF INTERPRETATION (LOI) APPLICATION CHECKLIST AND FEE TABLE

(Updated March 2016)

This checklist is for all LOI types which are as follows:

1. A presence/absence LOI for an entire site
2. A presence/absence LOI for a portion of a site under one acre (also called a footprint of disturbance LOI). See N.J.A.C. 7:7A-3.2 for a detailed description of this LOI;
3. A line delineation LOI for an entire site under one acre. See N.J.A.C. 7:7A-3.3 for a detailed description of this LOI; and
4. Line verification LOI. See N.J.A.C. 7:7A-3.4 for a detailed description of this LOI.

To complete this checklist, you will need:

1. Attachment A: Form letter for providing certified mail notice of an application.
2. DLUR Form: Application form

Notes:

- Please provide only <u>one</u> copy of each item listed on the checklist, unless the item specifically states that additional copies are required.

- The person who signs the DLUR application form as the applicant must either be the owner of the site, or a person with legal authority over the site to carry out all requirements of any authorization issued. Others may assist the applicant in preparing the application, however only one person may be identified in the application as the applicant's agent. The agent may be a consultant, engineer, attorney, or other person who has assisted or prepared the application. The agent is the person to which all correspondence will be sent and the person that has authority to make decisions with regard to the application.

- For a "Line Delineation" LOI, once the Department has delineated and flagged and/or staked the regulated wetland areas on the site, the applicant will receive a Letter indicating that the delineation has been completed. At this time the applicant has the option of submitting a revised survey which includes the wetlands and/or open waters boundary to the Department. The Department will then re-issue the LOI citing the revised survey.

- As appropriate, the application shall inform the Department of known or suspected safety hazards located on any portion of the site in order to protect the safety of DEP staff who may visit the site to conduct the wetland verification which may include examination of soils, hydrology and vegetation, Examples of safety hazards include but are not limited to; hazardous materials on or

within 18" of the soil and/or water surface, fencing, barbed wire, wells or mines, presence of guard animals on site, site access difficulties due to a security clearance requirement, etc..

APPLICATION REQUIREMENTS FOR ALL LOI's:

To be deemed administratively complete, an application for a letter of interpretation must include all of the following items:

Item 1 [✓] A DLUR application form, completed in accordance with the directions on the form;

Item 2 [✓] The appropriate fee, indicated in the fee table below, paid as follows:

- The fee shall be paid by personal check, certified check, attorney check, government purchase order, or money order;
- For all projects except those in the Pinelands, the fee shall be made payable to "Treasurer, State of New Jersey";
- For projects in the Pinelands, the fee shall be made payable to "NJDEP-Pinelands Wetlands Program.";
- Each check, purchase order, or money order must be marked with the name of the applicant and must indicate the type of letter of interpretation (LOI) for which the application is submitted (for example "presence/absence LOI");
- If more than one permit is requested a fee break down should be included on a separate page.

Item 3 [✓] Proof that the public notice requirements at A and B below have been met. (Note: To prove that an item has been sent to a person, submit either the stamped white postal receipt you receive when you send the item by certified mail, the signed green certified mail return receipt card or a copy of either of these two items.) All of the following must be submitted:

✓A. Proof that the municipal clerk has been sent a copy of the entire application that was submitted to NJDEP;

✓B. Proof that a completed copy of the notice letter found in Attachment A has been sent to each of the following:

✓ i. The municipal environmental commission (if one exists);
✓ ii. The municipal planning board;
✓ iii. The municipal construction official;
✓ iv. The county planning board; and
✓ v. One of the following sets of neighboring landowners (applicant choose one option):

✓ Option 1: All owners of land within 200 feet of the boundary of the site (see N.J.A.C. 7:7A-1.4 for a definition of "site"). If this option is selected, the application must also include a certified list of landowners within 200 feet of the site, obtained from the municipality;

___ Option 2: If the application is part of a joint application for an LOI and a general permit authorization, all owners of land within 200 feet of the proposed disturbance. If this option is selected, the application must also include a tax map with the location of the proposed

disturbance outlined, and with an area extending 200 feet on all sides of the proposed disturbance outlined; or

___ Option 3: If the LOI is part of a joint application for an LOI and a general permit authorization for a linear development, trail, or boardwalk; and the project is more than one half mile long, proof that both of the following have been done: A copy of the notice in Attachment A has been sent to all owners of land within 200 feet of any proposed above ground structure (not including telephone poles, power lines or similar structures), such as an access road, treatment plant, power substation, or similar structure; and a display advertisement has been published in the newspaper of record for the municipality in which the site is located and in a newspaper with regional circulation in the region in which the site is located. The advertisement shall be at least four column inches in size. Proof must be provided that the advertisement has been placed, either a copy of the advertisement or a copy of an affidavit from the newspaper stating that the advertisement was published.

Note: If a project site is located in more than one municipality or county, the notice requirements in item 3 above must be met for each municipality and/or county in which the site is located.

Item 4 ☑ A copy of a USGS quad map, with the site clearly outlined and State Plane coordinates in NAD 1983 for a point at the approximate center of the site. The accuracy of the State plane coordinate shall be within 50 feet of the actual center point of the site. For assistance in determining the State plane coordinates for a site, contact the Department's Geographic Information (GIS) Office at (609) 777-0672 or go to their website at: http://www.nj.gov/dep/gis/faqgeneral.htm#Gen13.

Note: For a linear development, the list of State plane coordinates required shall include the coordinates at each end of the development and at 1,000 foot intervals along the entire length of the development.

Item 5 ☑ An up to date county road map or local street map with the site clearly indicated;

Item 6 ☑ The most recent municipal tax map available with the site clearly indicated;

Item 7 ☑ A minimum of four (4) original color photographs, mounted or color photocopied on 8½ by 11 inch paper, sufficient to show a representative sample of the vegetation on the portion(s) of the site that are affected by the LOI application. The photo locations should be indicated on the survey or separate map.

Item 8 ☑ A copy of the county soil survey map with the site clearly outlined. (Soil survey maps can be obtained from the local NJ Department of Agriculture Soil Conservation District or online through the Web Soil Survey at: http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm). If not already indicated, please indicate the soil survey map number on the copy;

Item 9 ☑ A written narrative and/or reports necessary to accurately describe the site, its location, existing site conditions, previous permits as well as any areas of Division regulatory jurisdiction;

Item 10 ☑ A document which includes the name(s) and qualifications of the person(s) who prepared the application. This must include in the case of a Line Verification, the person(s) who performed the delineation.

Note: In addition to the information required for ALL LOI's, you must supply additional documentation required for the type of LOI for which you are applying as follows:

Additional Requirements Depending on LOI Type

N/A Presence/absence LOI for an entire site

Item A ☐ **Application/Survey Requirements:** For a presence/absence LOI for an entire site under N.J.A.C. 7:7A-3.2(c)1, no additional information is required.

Item B ☐ **Site Requirements:** The boundaries of the site shall be flagged or staked to enable Department staff to identify the site boundaries;

N/A Presence/absence LOI for a portion of a site (Footprint of Disturbance)

Item A ☐ **Application/Survey Requirements:** For a presence/absence LOI for a portion of a site under N.J.A.C. 7:7A-3.2(c)2, in addition to the information required for all LOI's, the following information is required:

____ i. Five (5) folded copies of a topographical survey of the site; drawn at a scale of no more than 1 inch to 50 feet, prepared in accordance with N.J.A.C. 7:7A-10.1(q), signed and sealed by a licensed surveyor and which clearly shows the portion of the site ("footprint") which the applicant wishes the LOI to cover, all areas within 150' of the footprint and which reflects the site requirements below;

Item B ☐ **Site Requirements:** Sequentially numbered flags and/or stakes must be placed on the site to show the boundaries of the portion of the site (or "footprint of disturbance") that the LOI will cover so that Department staff can easily find the boundary of that portion of the site. Please note that the maximum footprint allowed under this LOI is 1 (one) acre and that the footprint must encompass ALL proposed disturbance for the project including but not limited to; clearing, grading, extent of silt fences, etc.

N/A Line Delineation LOI for a Site Under One Acre

Item A ☐ **Application/Survey Requirements:** For a line delineation LOI under N.J.A.C. 7:7A-3.3, in addition to the information required for all LOI's, the application shall include:

____ i. Five (5) folded copies of a survey signed and sealed by a licensed surveyor, drawn at an appropriate scale and prepared in accordance with N.J.A.C. 7:7A-10.1(q), and which reflects the site requirements below;

Item B ☐ **Site Requirements:** The boundaries of the site shall be flagged and/or staked to enable Department staff to identify the site boundaries;

Item C ☐ **Digital Survey Optional:** A digital copy, georeferenced in NAD 83, of any post delineation revised survey- can also be provided in addition to the paper copies.

Line Verification LOI

Item A ☑ **Application/Survey Requirements:**

☑ **Data Sheets:** For a Line Verification, the application must include data sheets for sample locations which include:

✓ i. **Soil Borings:** Soil logs describing the soil characteristics at the location of each soil boring, including a description of the field indicators, or lack thereof, for hydrology as outlined in the 1989 Federal manual;

✓ ii. **Vegetation:** A description of the vegetative species on the site recorded at each soil boring location classified using the United States Fish and Wildlife Service (USFWS) categories listed under "R/IND" and "NAT-IND" (Regional and National Indicators) columns in the "National Wetlands Plant List" and amendments thereto, compiled by the USFWS, United States Army Corps of Engineers, USEPA and the USDA's Natural Resources Conservation Service;

☑ **Surveys:** Five folded copies of a topographical survey, drawn at a scale of no more than one inch to 100 feet prepared in accordance with N.J.A.C. 7:7A-10.1(q), signed and sealed by a licensed Surveyor and must include but not be limited to the following:

✓ i. If the application is for a line verification for an entire site under N.J.A.C. 7:7A-3.4(b) 1 or 2, the survey must show the boundaries of the site. If the application is for a line verification for only a portion of a site under N.J.A.C. 7:7A-3.4(b)3, the survey must show that portion of the site and include a metes and bounds description of that portion.

✓ ii. The proposed boundaries of all wetlands and/or open waters on the site must be drawn and clearly labeled on the survey and must include:

1. The flags or stakes depicted in the field identifying the wetland(s) and/or State open water(s) boundaries. Each flag must be uniquely (sequentially if possible) numbered and identified on the survey;
2. The line segments between each flag must be uniquely (sequentially if possible) numbered on the survey. The Department will assign a resource classification to each line segment as identified by its number. Please see pg. 8 for details.

✓ iii. The survey shall indicate the location and identifying number of each sample location;

✓ iv. The survey shall indicate topographic contours as follows:

1. If the site is located in Middlesex County or Mercer County or anywhere north of these counties, the survey must show topographic contours at intervals of no more than five feet;
2. If the site is located south of Middlesex and Mercer Counties, the survey must show topographic contours at intervals of no more than two feet;

Item B ☑ **Site Requirements:**

☑ **Boundary Markers:** The property boundaries and the proposed boundaries of all wetlands and/or open waters must be flagged and/or staked on the site as follows.

✓ i. All flags and/or stakes must be present on the site prior to submission of the application to the Department.

✓ ii. The flags and/or stakes must be no more than 75 feet apart, must be set in relation to identifiable points and landmarks if possible and from each flag and/or stake you should be able to see the adjacent ones.;

✓ iii. Each flag and/or stake must be uniquely (sequentially if possible) numbered and identified on the survey;

✓ iv. Flag and/or stakes shall be positioned so that they can be clearly visible at any time and any weather condition during the year, i.e. care should be taken so that flags and/or stakes are not positioned in a location likely to be covered by snow in the winter or overgrown in the summer.

✓ v. Flags should not be tied to dead or annual vegetation.

☐ **Sample Locations:** All sample locations as referenced in the data sheets must be clearly marked in the field.

Item C ☑ **Digital Survey Requirements (Optional):** A digital file, georeferenced in NAD 83 of the survey can also be provided in addition to paper copies.

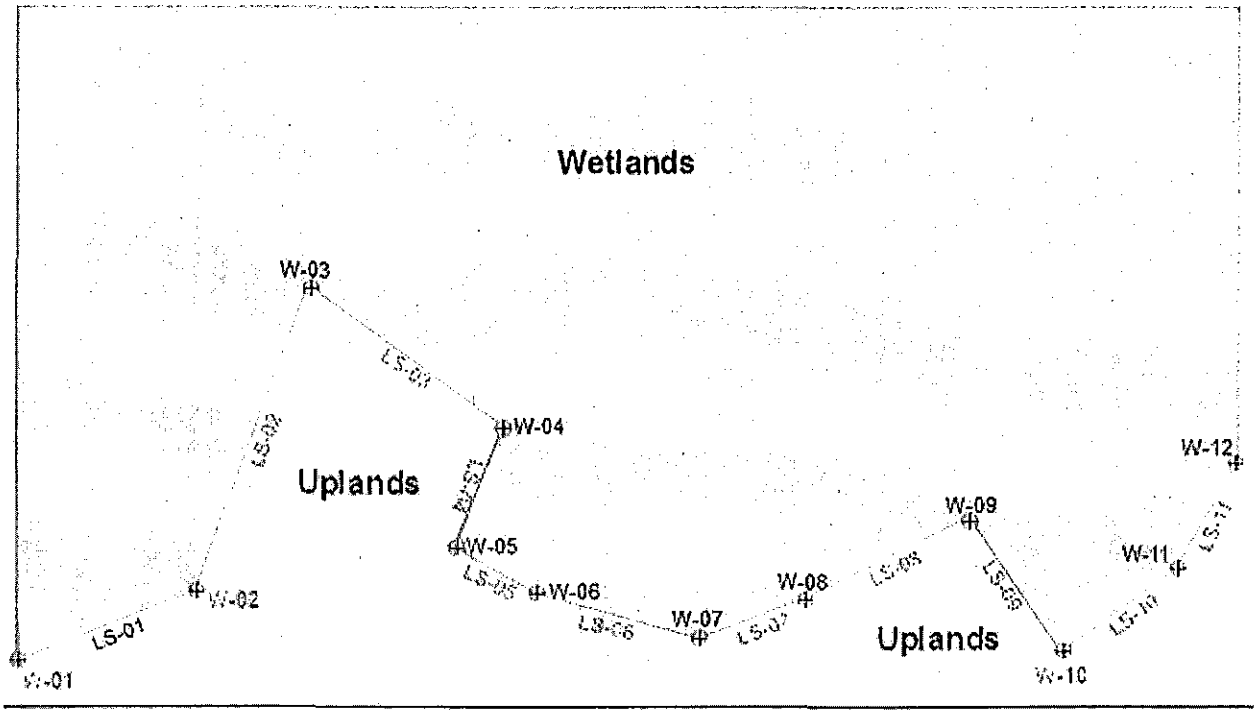
LETTER OF INTERPRETATION (LOI) APPLICATION FEES

Type of LOI	Fee
Presence/absence LOI -- whole site	$1,000.00
Presence/absence LOI under N.J.A.C. 7:7A-3.2 -- portion of a site (AKA footprint of disturbance)	$1,000.00
Line delineation LOI under N.J.A.C. 7:7A-3.3 – site smaller than one acre	$1,000.00
Line verification LOI under N.J.A.C. 7:7A-3.4 – site smaller than one acre	$1,000.00
✓ Line verification LOI under N.J.A.C. 7:7A-3.4 – site one acre or larger	$1,000.00 plus $100.00 per acre[1]
LOI extension under N.J.A.C. 7:7A-3.6	
Presence/absence LOI - extension	$500.00
Presence/absence LOI portion of a site (A.K.A. footprint of disturbance) - extension	$500.00
Line delineation LOI site smaller than one acre - extension	$500.00
Line verification LOI site smaller than one acre - extension	$500.00
Line verification LOI site one acre or larger - extension	50% of the original application fee or $500.00 – whichever is greater
LOI (any type) and a general permit authorization	Sum of applicable LOI and general permit authorization fees
LOI (any type) and an individual permit	Applicable individual permit fee

Notes:

[1]When this fee table refers to a cost "per acre ", this means the cost is per acre or fraction thereof. For example, an area of one and one third acres would have the same fee as an area of two acres.

Freshwater Wetland LOI Verification:
Identifying Line Segments



When preparing wetland surveys for submission, the line segments between wetland flags must be labeled. Wetland flag locations are used to verify the wetland boundary location in the field as well as confirm those locations on the survey. Line segment identifications on the survey allow the Division to assign a resource classification to a segment or range of segments rather than a wetland flag or range of flags.

In the example above, wetland flag locations as delineated and surveyed in the field are identified as flags "W-01" through "W-12" while the line segments between those flags are identified as segments "LS-01" through "LS-11".

If in the example flags "W-01" to "W-04" were identified as an Intermediate resource value wetland and flags "W-04" to "W-12" as an Exceptional resource value wetland, flag "W-04" would be used twice to identify the break between these two resource classifications. Because of this double use of a wetlands flag location in a LOI, the Division would occasionally receive surveys for transition area waivers with incorrectly drawn wetland transition area boundaries drawn.

Identifying a resource classification by line segment removes all ambiguity. Using the example above, if we instead identify the intermediate value wetlands as line segments "LS-01" to "LS-03" and identify the exceptional resource value wetlands as "LS-04" to "LS-11", no number duplication occurs.

Some surveyors already identify line segments. Requiring segments for all Letter of Interpretation applications should eliminate confusion when attempting to draw Wetland Transition Area buffers for future applications and will save applicants time and costly site plan modification to correct TA buffers erroniously drawn. This change also allows for the simple establishment of buffers using GIS tools.

PETRY ENGINEERING, LLC

August 31, 2017

New Jersey Department of Environmental Protection
Division of Land Use Regulation
501 East State Street, 5 Station Plaza – 2nd Floor
Mail Code 501-02A
P.O. Box 420
Trenton, New Jersey 08625-0420
Attn: Application Support Unit

RE: **Application for FWW Line Verification Letter of Interpretation**
Applicant Name: Mr. Roger Kruvant
Property Owner Name: Forsons Partners, LLC.
Project Name: Property of 25 Commerce Court
Municipality: Township of Verona
County: Essex
Blocks/Lots: Block 1201, Lot 3.01
Watershed/Drainage Basin: Lower Passaic River (Saddle to Pompton) /Passaic R.

To whom it may concern:

As Agent for the Applicant/Property Owner, Forsons Partners, LLC, we are submitting an application for a Freshwater Wetlands Line Verification Letter of Interpretation (LOI) for a total 11.62 acre property located at 25 Commerce Court in Township of Verona, Essex County, New Jersey.

Enclosed please find the completed checklist and the documentation related to applicable items of the Freshwater Wetlands Letter of Interpretation (LOI) Application Checklist and Fee Table, updated March 2016, Division of Land Use Regulation Application Form (DLUR), and documentation related to Items 1-10 and Additional Requirements Depending on LOI Type of the checklist in compliance with N.J.A.C. 7:7A-10.

Attached is a check in the amount of $2,200.00, payable to "Treasurer, State of New Jersey", to cover your offices required review fee for the subject application.

If you have any questions regarding this application, please contact the undersigned or Mr. Christopher A. Vander Fliet, of this office who is most directly responsible for its contents.

155 Passaic Avenue, Fairfield, New Jersey 07004
973-227-7004 973-227-7074 (fax)
www.petryengineering.com

Very truly yours,
PETRY ENGINEERING, LLC

J. Michael Petry, PE, PP, RA

Enclosure
cc: Township of Verona Municipal Clerk (entire application)
Mr. Roger Kruvant (Applicant & Owner)

Ent	Name	Acct No	Invoice	Date	P.O. Num	Reference	Amount	Discount	Net
850A	Forsons Partners LLC	05300	LOI app fee	8/23/2017	merce Court	Lineverification LOI	2,200.00	0.00	2,200.00

Payor:	Forsons Partners LLC	Date	Check No.	Check Amount
Payee:	TREASURER STATE OF NJ	8/23/2017	005192	2,200.00

Retain this statement for your records

THE FACE OF THIS DOCUMENT HAS MICROPRINTING. DO NOT CASH IF MISSING. THE BACKGROUND WILL EXPOSE A HIDDEN VOID WHEN PHOTOCOPIED.

Forsons Partners LLC
71 Valley Street
Suite 204
South Orange, NJ 07079

UMB Bank
C/O UBS Financial

Date	Check No.	Check Amount
8/23/2017	005192	**$2,200.00**

Two Thousand Two Hundred AND 00/100 DOLLARS

Pay to the order of:

TREASURER STATE OF NJ
NJ Department of Treasury
P O Box 417
Trenton, NJ 08646-0417

⑈005192⑈ ⑆044000804⑆ 8200100464⑈

State of New Jersey
Department of Environmental Protection
Division of Land Use Regulation
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. Is this project Superstorm Sandy Related Yes ☐ No ☑

1. Applicant Name: Mr. Roger Kruvant — E-Mail: rogerkruvant@aol.com
   Address: 71 Valley Street, Suite 204 — Daytime Phone: 973-763-8454 Ext.
   City/State: South Orange, New Jersey — Zip Code 07079 Cell Phone:
2. Agent Name: Mr. J. Michael Petry
   Firm Name: Petry Engineering, LLC — E-Mail: mikepetry@petryengineering.com
   Address: 155 Passaic Avenue — Daytime Phone: 973-227-7004 Ext.
   City/State: Fairfield, New Jersey — Zip Code 07004 Cell Phone:
3. Property Owner: Mr. Roger Kruvant / FORSOME PARTNERS, L.L.C. — E-mail: rogerkruvant@aol.com
   Address: 71 Valley Street, Suite 204 — Daytime Phone: 973-763-8454 Ext.
   City/State: South Orange, New Jersey — Zip Code 07079 Cell Phone:
4. Project Name: Property of 25 Commerce Court — Address/Location: 25 Commerce Court
   Municipality: Verona, New Jersey — County: Essex Zip Code 07044
   Block(s): 1201 — Lot(s): 3.01
   N.A.D. 1983 State Plane Coordinates (feet) E (x): 565,295.84 N(y): 731,505.13 *Not Longitude/Latitude*
   Watershed: Lower Passaic River — Subwatershed:Peckman River
   Nearest Waterway: Peckman River
5. Project Description: Application for a Line Verification Letter of Interpretation (LOI) for a 11.62 acre property in Verona Township, Essex County, New Jersey

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 — SIGN HERE — of Applicant

Date: 8/28/17

Print Name: ROGER KRUVANT

Date

Print Name

Document ID: lur_021.doc, Last Revised: July 2016

B. 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 giver 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 resonsible 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

8/28/17
Date

Roger Kruvant
Print Name

Signature of Owner/Easement Holder

Date

Print Name/Title

C. APPLICANT'S AGENT

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

J. Michael Petry
Name of Agent

Professional Engineer
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

NOTARY:

Sworn to me, this day of: 28, AUGUST, 2017

Katherine Schmidt
Notary Public

D. 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

Print Name

ZL Landsurveying, LLC - Owner
Position & Name of Firm

36260
Professional License #

08/30/17
Date

E. 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

Christopher A. VanderHart
Print Name

Engineer, Petry Engineering, LLC
Position & Name of Firm

Professional License #
(If Applicable)

08/31/2017
Date

F. APPLICATION(S) FOR: (Check all that apply – Fee calculations and directions on pages 6, 7, & 8)

	Coastal General Permits	Fee Amount	Fee Paid
☐	CZMGP1 Amusement Pier Expansion	$1,000.00	
☐	CZMGP2 Beach/Dune Activities	$1,000.00	
☐	CZMGP3 Voluntary Reconstruction Certain Residential/Commercial Dev.	$1,000.00	
☐	CZMGP4 Development of one or two SFH or Duplexes	$1,000.00	
☐	CZMGP5 Expansion or Reconstruction SFH/Duplex	$1,000.00	
☐	CZMGP6 New Bulkhead/Fill Lagoon	$1,000.00	
☐	CZMGP7 Revetment at SFH/Duplex	$1,000.00	
☐	CZMGP8 Gabions at SFH/Duplex	$1,000.00	
☐	CZMGP9 Support Facilities at a Marina	$1,000.00	
☐	CZMGP10 Reconstruction of Existing Bulkhead	$1,000.00	
☐	CZMGP11 Hazard Waste Clean-up	$1,000.00	
☐	CZMGP12 Landfall of Utilities	$1,000.00	
☐	CZMGP13 Recreation Facility at Public Park	$1,000.00	
☐	CZMGP14 Bulkhead Construction & Fill Placement	$1,000.00	
☐	CZMGP15 Construction of Piers/Docks/Ramps in Lagoons	$1,000.00	
☐	CZMGP16 Minor Maintenance Dredging in Lagoons	$1,000.00	
☐	CZMGP17 Eroded Shoreline Stabilization	$1,000.00	
☐	CZMGP18 Avian Nesting Structures	$1,000.00	
☐	CZMGP19 Modification of Electrical Substations	$1,000.00	
☐	CZMGP20 Legalization of the Filling of Tidelands	$1,000.00	
☐	CZMGP21 Construction of Telecommunication Towers	$1,000.00	
☐	CZMGP22 Construction of Tourism Structures	$1,000.00	
☐	CZMGP23 Geotechnical Survey Borings	$1,000.00	
☐	CZMGP24 Habitat Creation/Restoration/Enhancement/Living Shorelines	No Fee	No Fee
☐	CZMGP25 1 to 3 Turbines < 200 Feet	$1,000.00	
☐	CZMGP26 Wind Turbines < 250 Feet	$1,000.00	
☐	CZMGP27 Dredge Lagoon (post storm event)	$1,000.00	
☐	CZMGP28 Dredge post Bulkhead Failure	$1,000.00	
☐	CZMGP29 Dredge Marina (post storm event)	$1,000.00	
☐	CZMGP30 Aquaculture Activities	$1,000.00	
☐	CZMGP31 Placement of Shell (shellfish areas)	$1,000.00	
☐	CZMGP32 Application of Pesticides in Coastal Wetlands	$1,000.00	
☐	CZM General Permit Extension	$240.00	
☐	CZM Permit-by-Certification *(On-line application ONLY)*	$600.00	

	CAFRA and Waterfront Development Permits	Fee Amount	Fee Paid
☐	CAFRA Individual Permit		
☐	CAFRA Exemption Request	$500.00	
☐	Waterfront Development Individual Permit/Upland		
☐	Waterfront Development Individual Permit/In-water		
☐	Minor Technical Modification of a Coastal GP or Coastal IP		
☐	Major Technical Modification of a Coastal GP or Coastal IP		
☐	Zone Letter	$500.00	
☐	Waterfront Development Individual Permit - Extension		
☐	Individual Permit Equivalency/CERCLA	No Fee	No Fee

	Flood Hazard Area General Permits	Fee Amount	Fee Paid
☐	FHAGP1 Channel Clean w/o Sediment Removal	No Fee	No Fee
☐	FHAGP1 Channel Clean w/Sediment Removal	No Fee	No Fee
☐	FHAGP2 Mosquito Control	$1,000.00	
☐	FHAGP3 Scour Protection Bridges/Culverts	$1,000.00	
☐	FHAGP4 Creation/Restoration/Enhancement of Habitat and Water Quality Values and Functions	No Fee	No Fee
☐	FHAGP5 Reconstruction and/or Elevation of Building in a Floodway	No Fee	No Fee
☐	FHAGP6 Construction of One SFH/Duplex and Driveway	$1,000.00	
☐	FHAGP7 Relocation of Manmade Roadside Ditches for Public Roadway Improvements	$1,000.00	
☐	FHAGP8 Placement of Storage Tanks	$1,000.00	
☐	FHAGP9 Construction/Reconstruction of Bride/Culvert Across Water < 50 Acres	$1,000.00	
☐	FHAGP10 Construction/Reconstruction of Bride/Culvert Across Water ≥ 50 Acres	$1,000.00	
☐	FHAGP11 Stormwater Outfall Along Regulated Water <50 Acres	$1,000.00	
☐	FHAGP12 Construction of Footbridges	$1,000.00	
☐	FHAGP13 Construction of Trails and Boardwalks	$1,000.00	
☐	FHA General Permit Extension	$240.00	
☐	FHA Permit-by-Certification (Except PBC 4 & 5) *(On-line application ONLY)*	$1,000.00	

	Flood Hazard Area		
☐	FHA Verification		
☐	FHA Individual Permit		
☐	FHA Hardship Exception (Must be submitted with a paid FHA IP)	$4,000.00	
☐	FHA Minor Technical Modification of a GP, IP or Verification		
☐	FHA Major Technical Modification of a GP, IP or Verification		
☐	FHA Extension of an IP or Verification		
☐	FHA Individual Permit Equivalency/CERCLA	No Fee	No Fee

	Stormwater Review Fees	Fee Amount	Fee Paid
☐	Fee for all Stormwater Reviews		

	Applicability Determination	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

	Highlands	Fee Amount	Fee Paid
☐	Emergency Permit		
☐	Pre-application Meeting	$500.00	
☐	Resource Area Determination >one acre		
☐	HPAAGP 1/ Habitat Creation/Enhance	No Fee	No Fee
☐	HPAAGP 2 Bank Stabilization	$500.00	
☐	Preservation Area Approval (PAA)		
☐	PAA with Waiver (Specify type below)		

	Coastal Wetlands	Fee Amount	Fee Paid
☐	Coastal/Tidal Wetlands Permit		
☐	Coastal Wetland Permit Modification		

	Freshwater Wetlands	Fee Amount	Fee Paid
☐	FWGP1 Main. & repair Exist Feature	$1,000.00	
☐	FWGP2 Utility Crossing	$1,000.00	
☐	FWGP3 Discharge of Return Water	$1,000.00	
☐	FWGP4 Hazard Site Invest/Cleanup	$1,000.00	
☐	FWGP5 Landfill Closure	$1,000.00	
☐	FWGP6 Filling of NSWC	$1,000.00	
☐	FWGP6A/TA- Filling of NSWC	$1,000.00	
☐	FWGP7 Fill ditch / swale	$1,000.00	
☐	FWGP8 House Addition	$1,000.00	
☐	FWGP9 Airport Sightline Clearing	$1,000.00	
☐	FWGP10A Very Minor Road Crossing	$1,000.00	
☐	FWGP10B Minor Road Crossing	$1,000.00	
☐	FWGP11 Outfalls / Intakes	$1,000.00	
☐	FWGP12 Survey / Investigation	$1,000.00	
☐	FWGP13 Lake Dredging	$1,000.00	
☐	FWGP14 Water Monitoring	$1,000.00	
☐	FWGP15 Mosquito Control	$1,000.00	
☐	FWGP16 Habitat Create / Enhance	No Fee	No Fee
☐	FWGP17 Trails / Boardwalks	$1,000.00	
☐	FWGP17A Multiuse paths	$1,000.00	
☐	FWGP18 Dam Repairs	$1,000.00	
☐	FWGP19 Dock or Pier	$1,000.00	
☐	FWGP20 Bank Stabilization	$1,000.00	
☐	FWGP21 Above Ground Utility	$1,000.00	
☐	FWGP23 Expand Cranberry	No Fee	No Fee
☐	FWGP24 Spring Developments	$1,000.00	
☐	FWGP25 Malfunction Septic System	No Fee	No Fee
☐	FWGP26 Channel / Stream Clean	$1,000.00	
☐	FWGP27 Redevelop Disturbed Site	$1,000.00	
☐	FWGP Modification	$500.00	
☐	FWGP Extension	$500.00	

	Freshwater Wetlands	Fee Amount	Fee Paid
☐	Individual Wetlands Permit		
☐	Individual Open Water Permit		
☐	Individual Permit Mod. Major/Minor		
☐	Individual Permit Extension		
☐	Wetlands Exemption	$500.00	
☐	Permit Equivalency/CERCLA	No Fee	No Fee

	Transition Area Waiver	Fee Amount	Fee Paid
☐	Averaging Plan		
☐	Reduction		
☐	Hardship Reduction		
☐	Special Activity Stormwater		
☐	Special Activity Linear Development		
☐	Special Activity Redevelopment		
☐	Special Activity Individual Permit		
☐	Exemption	$500.00	
☐	Modification Major/Minor		
☐	Extension	$500.00	

✓	Letter of Interpretation	Fee Amount	Fee Paid
☐	Presence Absence	$1,000.00	
☐	Presence Absence Footprint	$1,000.00	
☐	Delineation ≤ 1.00 Acres	$1,000.00	
☑	Verification	2,200	2,200
☐	Extension		

	Consistency Determination	Fee Amount	Fee Paid
☐	Water Quality Certificate		
☐	Federal Consistency	No Fee	No Fee
☐	HMC Water Quality Certificate		

Please note: If no fee amount is specified in the "Fee Amount" column, please refer to the Regulatory Fee Schedule which can be found at www.nj.gov/dep/landuse/forms.html. The following types of applications DO NOT require a fee submittal:

Coastal Permitting	• General Permit # 24 - Habitat creation, restoration, enhancement and living shoreline activities • Individual Permit Equivalency – CERCLA • Administrative Modifications
Applicability Determinations	• Coastal Applicability Determination • Highlands Jurisdictional Determination • Flood Hazard Area Applicability • Executive Order 215
Flood Hazard Area	• General Permit #1 – Channel cleaning under the Stream Cleaning Act • General Permit #4 – Creation, restoration, and enhancement of habitat and water quality values and functions • General Permit #5 – Reconstruction and/or elevation of a building in a floodway • Transfer of Approval • Administative Modifications • Individual Permit Equivalency – CERCLA
Federal Consistency	• Federal Consistency Determination
Highlands	• General Permit #1 - Habitat Creation, Restoration, Enhancement
Freshwater Wetlands	• General Permit #16 - Habitat creation and enhancement activities • General Permit #17 - Trails and Boardwalks (NO FEE when the activity is proposed on publicly owned lands) • General Permit #23 – Expansion of cranberry growing operations in the Pinelands • General Permit #25 – Malfunctioning individual subsurface sewage disposal (septic) systems • Individual Permit Equivalency – CERCLA

Also: In addition to the standard paper submission, an electronic copy of the entire application, including plans, may be submitted on CD-ROM to assist the Department in the review this application. Plans should be submitted as a CAD file or Shapefile, georeferenced in NJ state plane feet NAD83. Please do NOT send the electronic version via E-Mail.

Electronic permitting and/or application submittal is available for specific applications. Please see the Division website at www.nj.gov/dep/landuse/epermit.html for more information.

APPLICANT NAME: MR. ROGER KRUVANT FILE # (If known): N/A, APPLICATION FOR LINE VERIFICATION, LOI

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).

PROPOSED:	*PRESERVED*	*UNDISTURBED*	*DISTURBED*
RIPARIAN ZONE			
CZMRA FORESTED *(CZMRA IP – Only)*			
E & T HABITAT *Endangered and/or Threatened*			
FRESHWATER WETLANDS			

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 *Emergent, Forest, Shrub, Etc.* _____ RESOURCE CLASSIFICATION *Ordinary, Intermediate, Exceptional, EPA, Etc.* _____

PROPOSED DISTURBANCE:	*WETLANDS*	*TRANSITION AREA*	*SOW*
FILLED			
EXCAVATED			
CLEARED			
TEMPORARY DISTURBANCE			

PERMIT TYPE _____ WETLAND TYPE *Emergent, Forest, Shrub, Etc.* _____ RESOURCE CLASSIFICATION *Ordinary, Intermediate, Exceptional, EPA, Etc.* _____

PROPOSED DISTURBANCE:	*WETLANDS*	*TRANSITION AREA*	*SOW*
FILLED			
EXCAVATED			
CLEARED			
TEMPORARY DISTURBANCE			

Appendix II - Fee Calculation Sheet (Required)

Directions:

The Fee Calculation sheet is broken down by the types of programs administered by the Division of Land Use Regulation: Coastal, Flood Hazard Area, Freshwater Wetlands, Stormwater Review.

Use the abbreviation key below in order to identify the type(s) of applications that you need to submit for your project. Once you find your application type(s) work through the **calculation column** and place the figure on the **fee amount** line. Do this for each application type and subtotal each section. In section 5 – enter the subtotals as indicated and add the fee figures to find your total fee.

- Whenever the calcuation requires an acreage figure, 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 maximum fee for a CAFRA Individual permit, an Upland Waterfront Development permit, or an In-Water Waterfront Development permit is $30,000 per permit type. For example: If you are applying for both an upland and an in-water Waterfront Development the maximum fee is applied to each permit for a maximum total of $60,000 plus any applicable stormwater review fee.
- No matter how many types of applications are required, the stormwater review fee is applied only one time.

Abbreviation KEY

CAFRA = CZM	General Permit = GP	Single Family Home = SFH
Coastal (Tidal) Wetlands = CSW	Individual Permit = IP	Transion Area Waiver = TAW
Extension = EXT	Letter of Interpretation = LOI	Verification = VER
Flood Hazard Area = FHA	Mean High Water Line = MHWL	Waterfront Development = WD
Freshwater Wetlands = FWW	Modification = MOD	Water Quality Certificate = WQC

Section 1 - Coastal Application Type	Calculation	Fee Amount
All General Permits (Except for Coastal GP #4)	$1,000 x _____# of GPs requested	
CZM – IP SFH or Duplex	$2,000	
CZM – IP Residential other than SFH/duplex	$3,000 x _____# of units	
CZM – IP Commercial, Industrial or Public	$3,000 x _____acres of the site	
CSW – IP SFH or Duplex	$2,000	
CSW – IP All Development other than SFH/duplex	$3,000 x _____acres of wetlands disturbed	
WD - IP SFH or Duplex (Landward of MHWL)	$2,000	
WD – IP Residential other than SFH/duplex (Landward of MHWL)	$3,000 x _____# of units	
WD – IP Commercial, Industrial or Public Development	$3,000 x _____acres of the site	
WD - IP SFH or Duplex (Waterward of MHWL)	$2,000	
WD – IP All Development other than SFH/duplex (Waterward of MHWL)	$3,000 x _____acres of water area impacted	
CZM, CSW, WD – Minor Technical Modification (GP/IP)	$500 x _____# of items to be revised	
CZM, CSW, WD – Major Technical Modification (GP/IP)	0.30 x _____original fee = Fee (Minimum $500)	
General Permit Extension	$240 x _____# of GPs to be extended	
WD – IP Permit Extension	0.25 x _____original fee = Fee (Maximum $3,000)	
CZM, CSW, WD – Exemption Request	$500 x _____# of exemptions requested	
	Subtotal for Coastal Applications	

Section 2 - Freshwater Wetlands Application Type	Calculation	Fee Amount
All General Permits (Except those listed in notes on Page 4)	$1,000 x _____# of GPs requested	
FWW – LOI Presence/Absence, Footprint, Delineation < 1 acre	$1,000	
✓ FWW – LOI Line Verification	$1,000 + ($100 x ___12___# of acres of the site)	$2,200
FWW – TAW with valid LOI	$1,000 + ($100 x _____# acres FWW disturbed)	
FWW – TAW without valid LOI	$1000 + ($100 x _____acres TAW disturbed)+ LOI Fee	
FWW – IP or Open Water Fill SFH or Duplex	$2,000	
FWW – IP or Open Water Fill other than SFH or Duplex	$5,000 + ($2,500 x _____# acres FWW disturbed)	
FWW – GP, TAW, IP, Open Water Fill Minor Modification	$500 x _____# of items to be revised	
FWW – GP, TAW, IP, Open Water Fill Major Modification	0.30 x _____original fee (Minimum $500)	
FWW – EXT LOI Presence/Absence, Footprint, Delineation < 1 acre	$500	
FWW – EXT LOI Line Verification	0.50 x _____original fee (Minimum $500)	
FWW – EXT GP or TAW	$500 x _____# of items to be extended	
FWW – EXT IP or Open Water Fill	0.50 x _____original fee (Minimum $500)	
	Subtotal for Freshwater Welands Applications	$2,200

Appendix II - Fee Calculation Sheet - Continued

Section 3 - Flood Hazard Area Application Type	Calculation	Fee Amount
All General Permits (Except for FHAGP 1, 4, 5)	$1,000 x _____# of GPs requested	
FHA – VER Methods 1, 2, 3, 5 (Fee not applicable to one (1) SFH)	$1,000	
FHA – VER Method 4 or 6	$4,000 + ($400 x _____per 100 linear feet)	
FHA – Delineation of Riparian Zone Only	$1,000	
FHA – IP SFH and/or Accessory Structures	$2,000	
FHA – IP *Fee not applicable to one (1) SFH	$3,000 base	
*Bank/Channel (stabilization, reestablishment, etc.) No Calculation Review --	+ $1,000	
*Bank/Channel (stabilization, reestablishment, etc.) With Calculation Review-	+ ($4,000 + ($400 x _____per 100 linear ft.))	
*Bridge, Culvert, Footbridge, Low Dam, etc. No Calculation Review--	+ $1,000 x _____ # of structures	
*Bridge, Culvert, Footbridge, Low Dam, etc. With Calculation Review-	+ $4,000 x _____ # of structures	
*Review of Flood Storage Displacement (net fill) Calculations----------	+ $4,000	
Review of Hardship Exception Request----------	+ $4,000	
*Utility Line----------	+ $1,000 x _____# of water crossings	
FHA – VER, IP, GP Minor Technical Modification:	$500 x _____# of proejct elements to be revised	
FHA – VER, IP, GP Major Technical Modification	0.30 x _____original fee (Minimum $500)	
FHA – Extension of Verification - Method 1, 2, 3, 5, Riparian Zone	$240.00	
FHA - Extension of Verification - Method 4 or 6	0.25 x _____original fee	
FHA – Extension of a General Permit	$240.00 x _____# of GPs to be extended	
FHA – Extension of an Individual Permit	0.25 x _____original fee	
FHA – Department Delineation Minor Revision	$500	
FHA – Department Delineation Major Revision	$4,000 + ($400 x _____per 100 linear feet)	
	Subtotal for Flood Hazard Area Applications	

Section 4 – Individual Water Quality Certificate	Calculation	Fee Amount
WQC (NOTE: No fee required under the coastal program)	$5,000 + ($2,500 x _____# acres regulated area disturbed)	

Section 5 - Additional Stormwater Review Fee	Calculation	Fee Amount
Stormwater Review	$3,000 base	
Review of Groundwater Recharge Calculations----------	+ $250 x _____# acres disturbed	
Review of Runoff Quantity Calculations----------	+ $250 x _____# acres disturbed	
Review of Water Quality Calculations----------	+ $250 x _____# acres impervious surface	
	Subtotal of Stormwater Review Fee	

Section 6 – Total of Application Fees

Subtotal of Section 1 - Coastal Applications	
Subtotal of Section 2 - Freshwater Wetlands Applications	$2,200
Subtotal of Section 3 - Flood Hazard Area Applications	
Subtotal of Section 4 – Individual Water Quality Certificate	
Subtotal of Section 5 - Additional Stormwater Review	
	$2,200
Total Application Fee	

Total Fee: $2,200 _____ **Check #:** 005192

Instructions for completing the Application Form for Permits/Authorizations from the Division of Land Use Regulation
(Please print clearly or type all information in every section)

Section 1. **Applicant Information**
- ✓ Please check off whether the project is Superstorm Sandy related.
- ✓ Make sure all applicant information is correct and up to date.
- ✓ Do not provide telephone numbers with call intercept.
- ✓ Must include correct E-mail address.

Section 2. **Agent Information**
- ✓ Make sure all agent information is correct and up to date.
- ✓ Do not provide telephone numbers with call intercept.
- ✓ If you do not have an agent, leave this section blank.
- ✓ Must include correct E-mail address.

Section 3. **Property Owner Information**
- ✓ Identify the property owner if different from applicant.

Please Note: The following permits and authorizations are available as on-line applications at http://www.nj.gov/dep/landuse under "Electronic Services":

Coastal General Permits-by-Certification #10 and #15

Flood Hazard Area Permits-by-Certification #1 thru #15

Freshwater Wetlands General Permits #8 and #25

Freshwater Wetlands E-LOI (submittal only)

Section 4. **Project Site Information/Fees and Costs**
- ✓ List the street address if known (or nearest crossroads) along with the correct zip code for the property.
- ✓ List all blocks and lots if more space is needed please attach a list to the application form.
- ✓ Make sure the state plane coordinates are given and that they are 1983 datum otherwise the application will be rejected.
  - o Applicants can find state plane coordinates on USGS maps or by going to the NJDEP website and using the GeoWeb feature to find the location of property and the exact state plane coordinates

Section 5. **Project Description**
- ✓ Briefly describe what you are proposing to construct within regulated areas. In addition, list any previous LUR file number(s) and if a Waiver Request has been submitted to the Office of Permit Coordination and Environmental Review please list the Waiver Request ID number(s) on the line provided.

Section A. **Applicant's Signature**
- ✓ The person or responsible party representative applying for this permit and to whom the permit will be issued must sign here.

Section B. **Property Owner's Signature**
- ✓ The legal owner of the property on which the regulated activities are proposed must sign here and certify items one through four in this section. In additional, all easement owners on the project site are also required to sign the cerification.

Section C. **Applicant's Agent Authorization**
- ✓ If the applicant is represented by a consultant or engineer, that individual shall fill out this section.

Section D. **Statement of the Preparer of Plans, Specifications, Surveyor's of Engineer's Report**
- ✓ All Flood Hazard Area and Waterfront Development applications require that the person preparing the plans and reports fill out this section

Section E. **Statement of the Preparer of Application, Reports and Supporting Documents**
- ✓ Anyone who prepares and is the responsible person for part of the application, reports or supporting documents must fill out this section

Section F. **Type of Application you are submitting**
- ✓ Place a check mark next to each type of activity you are requesting in this application package. Please fill in the amount of fee required for each permit and the amount of fees paid for each permit. The fee paid may be different from the amount required for each permit since the amount required may differ due the three payment plan for fees in excess of $1,000. A Fee Calculation Sheet is now included to allow an applicant to determine the fee for applications where the fee will vary due to size of site, impacts, etc.

Appendices **Please follow the directions as outlined for each Appendix.**
- ✓ Both Appendix I and II are required to be filled-out and submitted in order for the application form to be considered completed

VERONA
Township of Verona, New Jersey

Municipal Building
600 Bloomfield Avenue
Verona, New Jersey 07044
Website: www.VeronaNJ.org

OFFICE OF FINANCE / TAXES
Telephone: (973) 857-4777 Fax: (973) 857-8551

August 10, 2017

Ashley Neale
Planning Board Secretary

Attached please find a list of property owners within 200 feet of:

Block 1201 Lot 3.01, 25 Commerce Court
& Block 501 Lot 83, 111 Mount Prospect

Taxes: **Current**
Water/Sewer: **N/A**

I hereby certify this list to be correct. The names shown are as they appear in the Tax Duplicate and do not necessarily mean that the parties are the present owners of the property. Should you require further assistance, please do not hesitate to call.

Very truly yours,

Jennifer Muscara
Tax Collector

JM/an

TOWNSHIP OF VERONA				
VERONA, NEW JERSEY 07044				
LIST OF PROPERTY OWNERS WITHIN 200 FEET OF:				
BLOCK 1201 LOT 3.01 & BLOCK 501 LOT 83				
BLOCK	LOT	NAME & ADDRESS	personal	certified
		New Jersey Bell Telephone Co. Attn: Corporate Secretary		
		540 Broad Street Room 1005, Newark, NJ 07101		
		American Telephone & Telegraph Co. Attn:Karl Grossmann		
		Patricia Drive, Flanders, NJ 07836		
		Public Service Electric & Gas Co. Attn: Corporate Secretary		
		80 Park Place, T6B, Newark, NJ 07102		
		Passaic Valley Water Commission Attn: Corporate Secretary		
		1525 Main Avenue, Clifton, NJ 07011		
		MCI 10 Marcello Ave., Attn: John Scoccola		
		West Orange, NJ 07052		
		Comcast Cable		
		800 Rahway Avenue, Union, New Jersey 07083		
		COUNTY OF ESSEX, HALL OF RECORDS, RM.402		
		466 DR. MARTIN LUTHER KING JR. BLVD.,NEWARK, NJ 07102		
		MAY ALSO NEED TO OBTAIN LIST FROM CEDAR GROVE		
1102	43	O' DONNEL, JOHN & MARY		
		44 ANN STREET, VERONA, NJ 07044		
	44	MCGRATH, SCOTT & NINNI		
		46 ANN STREET, VERONA NJ 07044		
	45	DOERR, ALBERT & JOSEPHINE		
		48 ANN STREET, VERONA NJ 07044		
1103	22	CHENG, KUEN CHIN & WEN TZU UX		
		39 ANN STREET, VERONA NJ 07044		
	23	SCOLLANTE, WILLIAM & ROSEANNE		
		42 CYPRESS AVE, VERONA NJ 07044		
	24	DEL VECCHIO, PATRICIA J.		
		40 CYPRESS AVE, VERONA NJ 07044		
	25	MC DONOUGH, JAMES & DEBORAH		
		38 CYPRESS AVE, VERONA NJ 07044		
1104	6	CEPPOS, GARY & MARGARET		
		8 WILLOW TERRACE, VERONA NJ 07044		

1107	6	LEBLEIN, DANA		
		61 BROOKSIDE TERR, VERONA NJ 07044		
	7	BARONE, STEFANO ,. & MAURIN, LEAH F.		
		1 BIRCH LANE, VERONA NJ 07044		
	8	D'ANDREA, ANDREW & STEPHANIE		
		3 BIRCH LANE, VERONA NJ 07044		
	9	ALMODOVAR, VANESSA		
		5 BIRCH LANE, VERONA NJ 07044		
	10	GAGLIOSTRO, DOMENICO		
		7 BIRCH LANE, VERONA NJ 07044		
	11	OZOLINS, KARLIS & LOUISE		
		9 BIRCH LANE, VERONA NJ 07044		
1108	119	CRINION, CARLI		
		2 BIRCH LANE, VERONA NJ 07044		
	120	NEW ASSESTS LLC		
		67 ELMORA AVE, ELIZAVETH, NJ 07202		
	121	PERRI, ENZO & DANUTA M.		
		6 BIRCH LANE, VERONA NJ 07044		
	122	DENIGRIS, CHRISTOPHER & MELISSA		
		8 BIRCH LANE, VERONA NJ 07044		
	123	BUCCA, MARIO JR. & ANGELA M.		
		10 BIRCH LANE, VERONA NJ 07044		
1109	124	SHIHAB, AUROBA		
		45 OAK LANE, VERONA NJ 07044		
	125	KLINGERT, THEODORE		
		43 OAK LANE, VERONA NJ 07044		
	126	BALOGH, JAY & VALERIE		
		41 OAK LANE, VERONA NJ 07044		
	127	ISIDOR, LAURA		
		39 OAK LANE, VERONA NJ 07044		
1110	46	MC CRUDDEN, RYAN C. & LAUREN S.		
		53 CYPRESS, AVE, VERONA NJ 07044		
	47	WALLINGFORD, DAVID & EVA		
		51 CYPRESS AVE, VERONA NJ 07044		
	48	NARDINO, CHRISTIAN		
		49 CYPRESS AVE, VERONA NJ 07044		
	49	DANESHRAD, RAMIN		
		6 CRAIG COURT, ELMWOOD PARK NJ 07407		
	50	RYANS, CATHERINE		
		45 CYPRESS AVE, VERONA NJ 07044		
	51	PAZ, HUGO & MARTHA		
		43 CYPRESS AVE, VERONA NJ 07044		

	52	ABUKWAIK, ASHGAN		
		41 CYPRESS AVE, VERONA NJ 07044		
	53	NOCE, FLORENCE P.		
		19 WILLOW TERR, VERONA NJ 07044		
	54	MATTIA, STEVEM & ANGELA		
		17 WILLOW TERR, VERONA NJ 07044		
	55	ZITT, RUTH		
		15 WILLOW TERR, VERONA NJ 07044		
	56	BREWER, GREGORY & JAMIE		
		13 WILLOW TERR, VERONA NJ 07044		
	57	JOCELYN, CARL & ANNE		
		11 WILLOW TERR, VERONA NJ 07044		
X	100.01	TOWNSHIP OF VERONA		
		600 BLOOMFIELD AVE, VERONA NJ 07044		
	114	CONK, ERMINIA F.		
		60 BROOKSIDE TERR, VERONA NJ 07044		
	115	FROEHLICH, KIRK & FREDRICK & DORIS		
		62 BROOKSIDE TERR, VERONA NJ 07044		
	116	HORTON, MICHAEL & PAULA		
		64 BROOKSIDE TERR, VERONA NJ 07044		
	117	ASHLEY, RONALD & SANDRA		
		66 BROOKSIDE TERR, VERONA NJ 07044		
1201	2	ESSEX COURT REALTY		
		59 MAIN STREET, WEST ORANGE NJ 07052		
	3	RECCHIA, NORMAN L. & DOLORES		
		9 SCHNEIDER LANE, MONTVILLE, NJ 07045		
	4	TOWNSHIP OF VERONA		
		600 BLOOMFIELD AVE, VERONA NJ 07044		
	12	MARVE DEVELOPMENT CORP.		
		PO BOX 216, VERONA NJ 07044		

BLQ: 1201. 3.01 Tax Year: 2017 to 2017
Owner Name: FORSONS PARTNERS LLC, Property Location: 25 COMMERCE COURT

Tax Year: 2017	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Total
Original Billed:	20,673.72	20,673.72	21,348.67	0.00	62,696.11
Payments:	20,673.72	20,673.72	21,348.67	0.02	62,696.13
Balance:	0.00	0.00	0.00	0.02-	0.02-

Date	Qtr	Type Description	Code	Check No	Mthd	Reference		Batch Id	Principal	Interest	2017 Prin Balance
		Original Billed							62,696.11		62,696.11
02/01/17	1	Payment Bobcar Corp	TAX	1018	CK	3560	6	CURRENT2	6,891.24	0.00	55,804.87
02/08/17	1	Payment	TAX	1002	CK	3589	152	CURRENT	6,891.24	0.00	48,913.63
02/08/17	1	Payment	TAX	005050	CK	3589	153	CURRENT	6,891.24	0.00	42,022.39
05/08/17	2	Payment	TAX	1019	CK	4058	36	TAX MAIL	6,891.24	0.00	35,131.15
05/08/17	2	Payment	TAX	1008	CK	4058	37	TAX MAIL	6,891.24	0.00	28,239.91
05/08/17	2	Payment	TAX	005121	CK	4058	38	TAX MAIL	6,891.24	0.00	21,348.67
08/07/17	3	Payment	TAX	1010	CK	4631	2	TAX MAIL	7,116.21	0.00	14,232.46
08/07/17	3	Payment	TAX	1022	CK	4631	3	TAX MAIL	7,116.23	0.00	7,116.23
08/07/17	3	Payment	TAX	005159	CK	4631	4	TAX MAIL	7,116.23	0.00	0.00
08/07/17	4	Payment	TAX	1010	CK	4631	1	TAX MAIL	0.02	0.00	0.02-

Total Principal Balance for Tax Years in Range: 0.02-

PUBLIC NOTICE AGENCY ADDRESSES

MR. ROGER KRUVANT
11.62 ACRE PARCEL INCLUDING
BLOCK 1201; LOT 3.01
25 COMMERCE COURT
TOWNSHIP OF VERONA
ESSEX COUNTY, NEW JERSEY

FOR

NJDEP FRESHWATER WETLANDS LINE VERIFICATION
LETTER OF INTERPRETATION APPLICATION

AUGUST 29, 2017

Municipal (Township of Fairfield)

Municipal Clerk
Township of Verona
600 Bloomfield Avenue
Verona, New Jersey 07044

Municipal Environmental Commission
Township of Verona
600 Bloomfield Avenue
Verona, New Jersey 07044

Municipal Planning Board
Township of Verona
600 Bloomfield Avenue
Verona, New Jersey 07044

Municipal Construction Official/Building Department
Township of Verona
600 Bloomfield Avenue
Verona, New Jersey 07044

County (County of Essex)

Essex County Planning Board
900 Bloomfield Avenue
Verona, NJ 07044

7017 0190 0001 1432 5117

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☐ Certified Mail Restricted Delivery	$0.00	
☐ Adult Signature Required	$0.00	
☐ Adult Signature Restricted Delivery	$	
Postage	$0.70	
Total Postage and Fees	$6.80	08/31/2017

Sent To
Municipal Clerk
Township of Verona
600 Bloomfield Avenue
Verona, NJ 07044

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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☐ Return Receipt (electronic)	$0.00	Postmark Here
☐ Certified Mail Restricted Delivery	$0.00	
☐ Adult Signature Required	$0.00	
☐ Adult Signature Restricted Delivery	$	
Postage	$0.70	
Total Postage and Fees	$6.80	08/31/2017

Sent To
Municipal Construction Official/Building Dept.
Township of Verona
600 Bloomfield Avenue
Verona, NJ 07044

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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☐ Return Receipt (electronic)	$0.00	Postmark Here
☐ Certified Mail Restricted Delivery	$0.00	
☐ Adult Signature Required	$0.00	
☐ Adult Signature Restricted Delivery	$	
Postage	$0.70	
Total Postage and Fees	$6.80	08/31/2017

Sent To
Municipal Planning Board
Township of Verona
600 Bloomfield Avenue
Verona, NJ 07044

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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☐ Return Receipt (electronic)	$0.00	Postmark Here
☐ Certified Mail Restricted Delivery	$0.00	
☐ Adult Signature Required	$0.00	
☐ Adult Signature Restricted Delivery	$	
Postage	$0.70	
Total Postage and Fees	$6.80	08/31/2017

Sent To
Essex County Planning Board
900 Bloomfield Avenue
Verona, NJ 07044

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☐ Return Receipt (electronic)	$0.00	Postmark Here
☐ Certified Mail Restricted Delivery	$0.00	
☐ Adult Signature Required	$0.00	
☐ Adult Signature Restricted Delivery	$	
Postage	$0.70	
Total Postage and Fees	$6.80	08/31/2017

Sent To
Municipal Environmental Commission
Township of Verona
600 Bloomfield Avenue
Verona, NJ 07044

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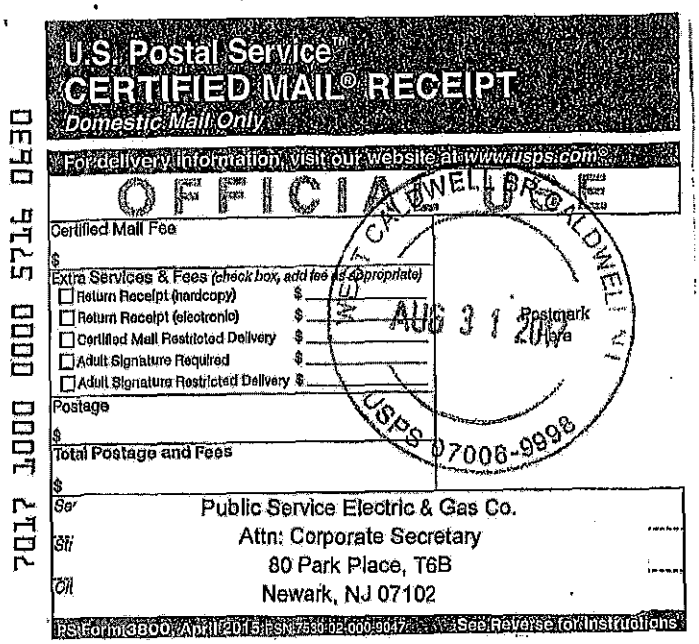

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Postage
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Total Postage and Fees
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Sent To
Public Service Electric & Gas Co.
Attn: Corporate Secretary
80 Park Place, T6B
Newark, NJ 07102

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AUG 31 2017
USPS 07006-9998
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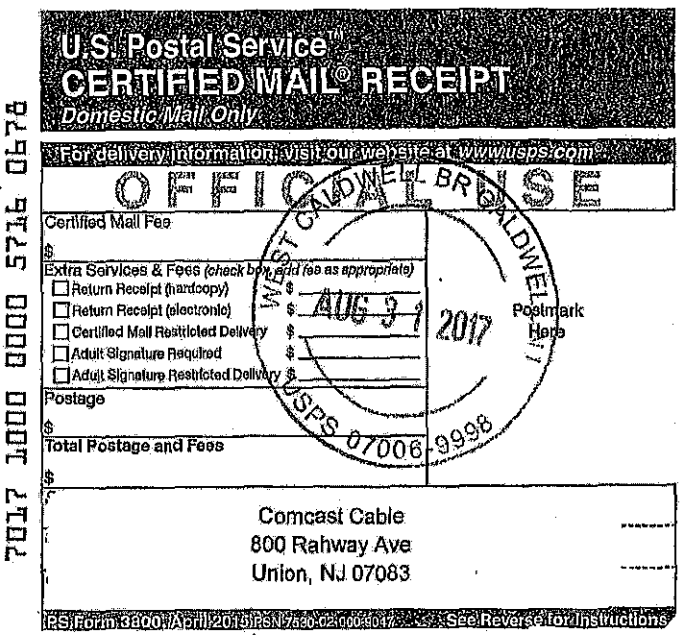
7017 1000 0000 5716 0630



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Postage
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Total Postage and Fees
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Sent To
Comcast Cable
800 Rahway Ave
Union, NJ 07083

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USPS 07006-9998
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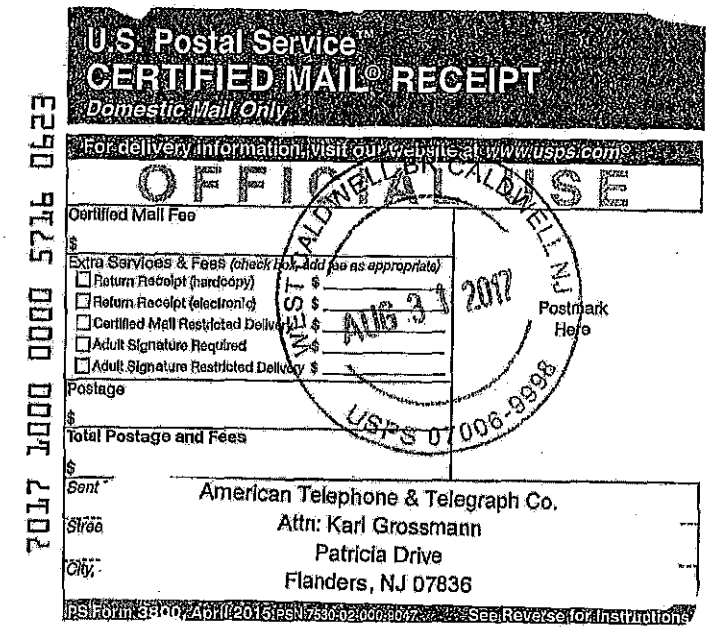
7017 1000 0000 5716 0678



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- ☐ Adult Signature Restricted Delivery $

Postage
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Total Postage and Fees
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Sent To
American Telephone & Telegraph Co.
Attn: Karl Grossmann
Patricia Drive
Flanders, NJ 07836

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USPS 07006-9998
Postmark Here

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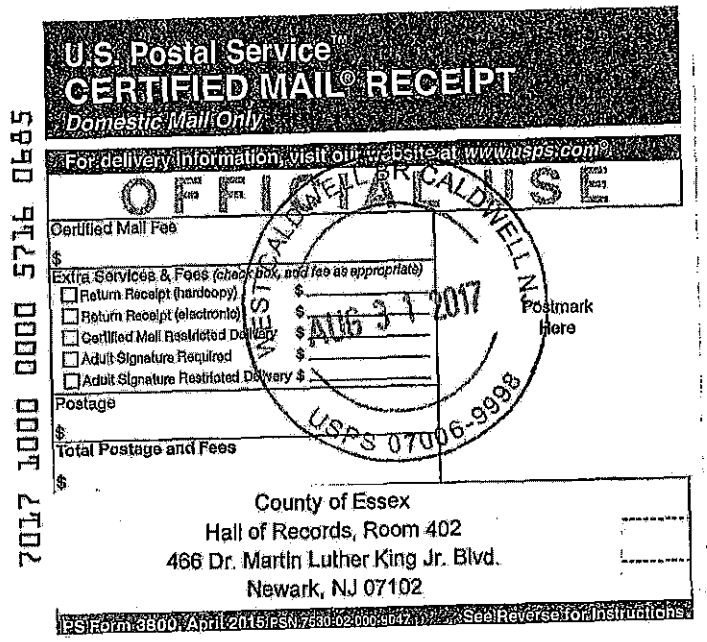
7017 1000 0000 5716 0623



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Postage
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Sent To
County of Essex
Hall of Records, Room 402
466 Dr. Martin Luther King Jr. Blvd.
Newark, NJ 07102

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Attn: Corporate Secretary
540 Broad Street, Room 1005
Newark, NJ 07101

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Clifton, NJ 07011

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Sent To: MCI
Attn: John Scoccola
10 Marcello Ave
West Orange, NJ 07052

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Andrew & Stephanie D'Andrea
3 Birch Lane
Verona, NJ 07044

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66 Brookside Terrace
Verona, NJ 07044

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Jay & Valerie Balogh
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Verona, NJ 07044

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- Adult Signature Restricted Delivery $

Postage
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Street and Apt. No.
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William & Roseanne Scollante
42 Cypress Ave
Verona, NJ 07044

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- Adult Signature Restricted Delivery $

Postage
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Total Postage and Fees
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Street and Apt. No.
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Domenico Cagliostro
7 Birch Lane
Verona, NJ 07044

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- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage
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Total Postage and Fees
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Sent To
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City, State, ZIP+4®

Vanessa Almodovar
5 Birch Lane
Verona, NJ 07044

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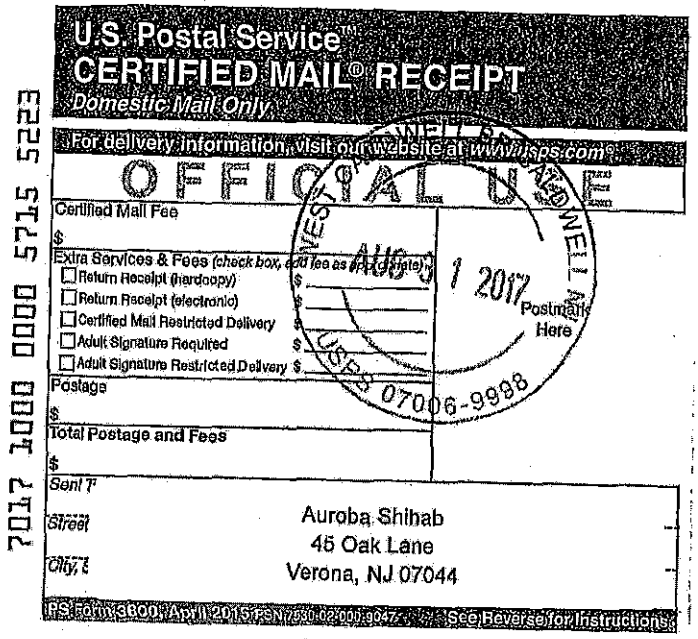

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- ☐ Certified Mail Restricted Delivery $
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Postage
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Total Postage and Fees
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Sent To
Street
City, St

Auroba Shihab
45 Oak Lane
Verona, NJ 07044

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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AUG 31 2017
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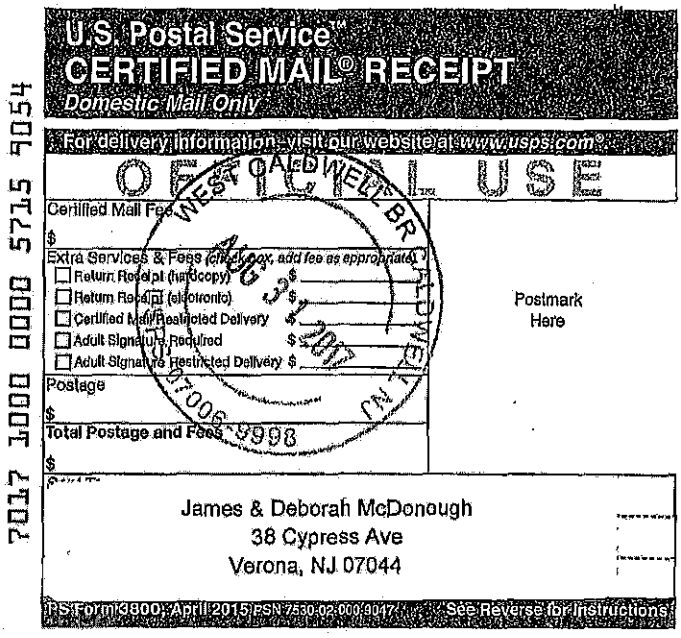
7017 1000 0000 5715 5223



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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
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Total Postage and Fees
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Street
City, St

James & Deborah McDonough
38 Cypress Ave
Verona, NJ 07044

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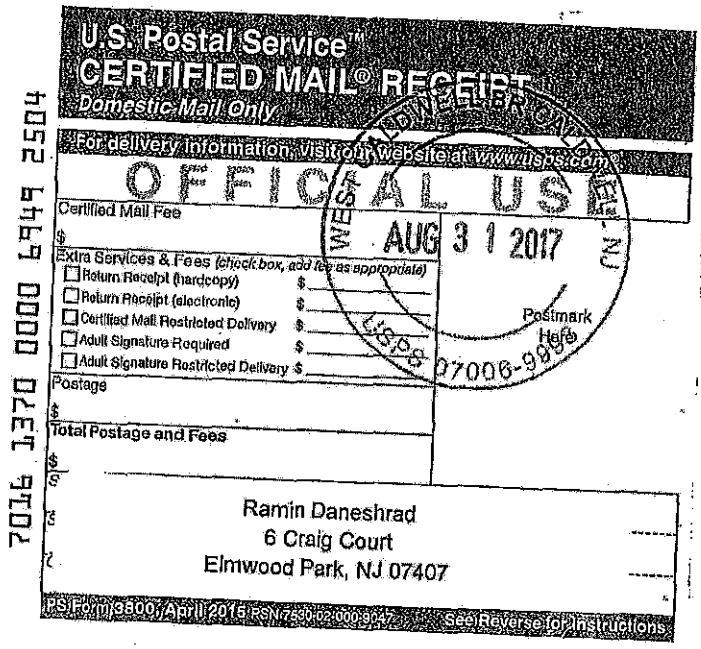

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
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Total Postage and Fees
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Sent To
Street
City, St

Ramin Daneshrad
6 Craig Court
Elmwood Park, NJ 07407

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AUG 31 2017
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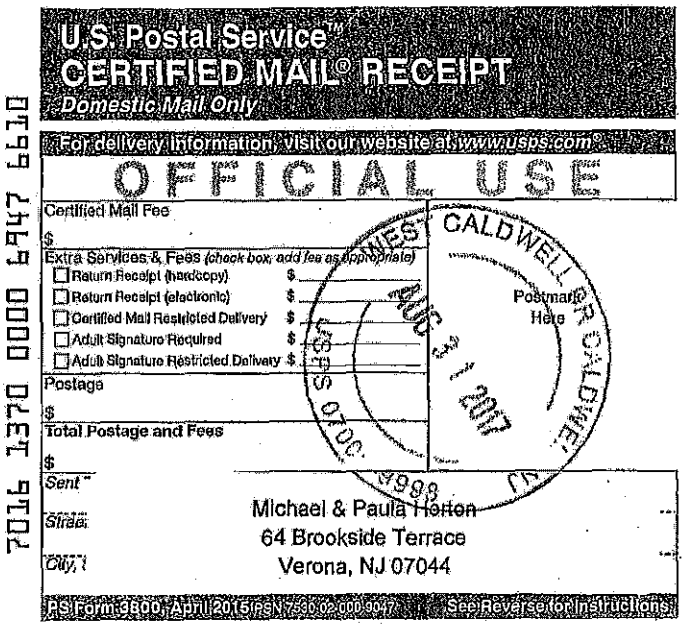
7016 1370 0000 6949 2504



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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
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Sent To
Street
City, St

Michael & Paula Horton
64 Brookside Terrace
Verona, NJ 07044

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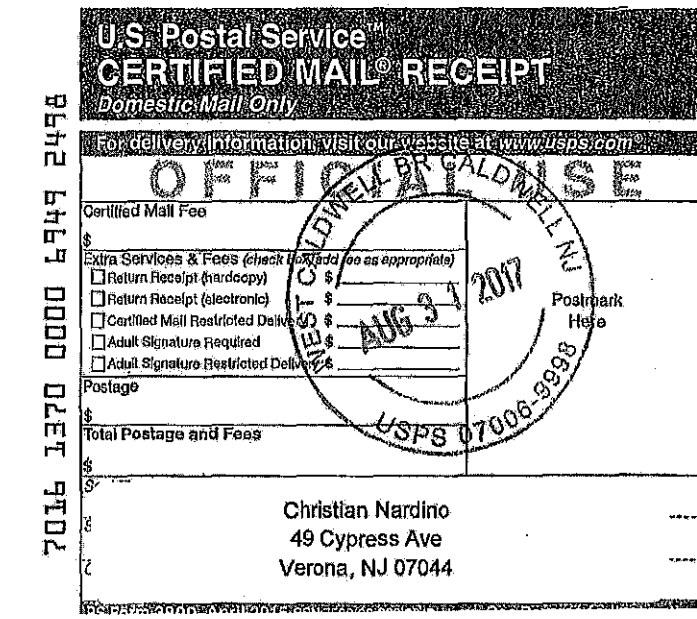
CALDWELL NJ
AUG 31 2017
USPS 07006-9998
Postmark Here

7016 1370 0000 6947 6610



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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
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Total Postage and Fees
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Sent To
Street
City, St

Christian Nardino
49 Cypress Ave
Verona, NJ 07044

WEST CALDWELL BR CALDWELL NJ
AUG 31 2017
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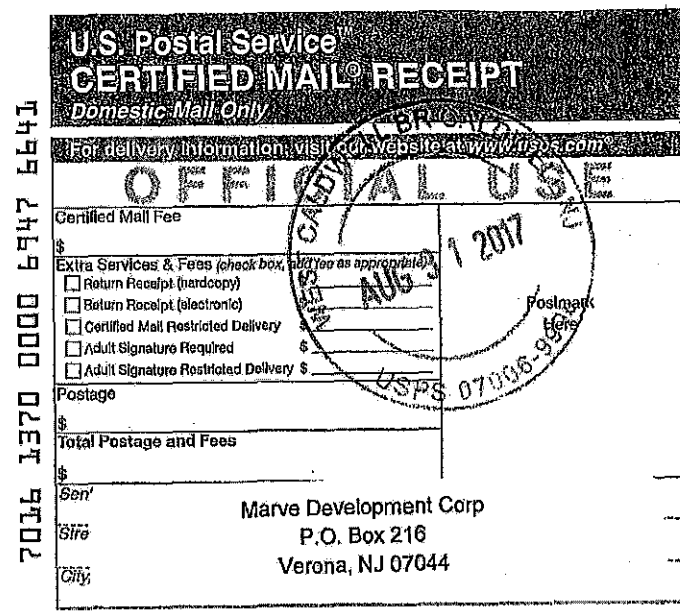
7016 1370 0000 6949 2498



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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
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Postage
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Total Postage and Fees
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Sent To
Street
City, St

Marve Development Corp
P.O. Box 216
Verona, NJ 07044

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7016 1370 0000 6947 6641

7016 1370 0000 6947 6573

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- Return Receipt (electronic) $
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- Adult Signature Required
- Adult Signature Restricted Delivery $

Postage
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Total Postage and Fees
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Sent To
Street
City,

Jamie & Gregory Brewer
13 Willow Terrace
Verona, NJ 07044

Postmark Here

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- Certified Mail Restricted Delivery $
- Adult Signature Required
- Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

Sent To
Street
City,

Carl & Anne Jocelyn
11 Willow Terrace
Verona, NJ 07044

Postmark Here

WEST CALDWELL BR CALDWELL NJ
AUG 31 2017
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- Certified Mail Restricted Delivery $
- Adult Signature Required
- Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

Sent To
Street
City,

Laura Isidor
39 Oak Lane
Verona, NJ 07044

Postmark Here

WEST CALDWELL BR CALDWELL NJ
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7017 1000 0000 5715 5247

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- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

Sent To
Street
City,

Christopher & Melissa Denigris
8 Birch Lane
Verona, NJ 07044

Postmark Here

WEST CALDWELL BR CALDWELL NJ
AUG 31 2017
USPS 07006-9998

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

Sent To
Street
City,

Angela & Steve Mattia
17 Willow Terrace
Verona, NJ 07044

Postmark Here

WEST CALDWELL BR CALDWELL NJ
AUG 31 2017
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Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $
- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

Sent To
Street
City,

Ryan & Lauren McCrudden
53 Cypress Ave
Verona, NJ 07044

Postmark Here

WEST CALDWELL BR CALDWELL NJ
AUG 31 2017
USPS 07006-9998

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
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Total Postage and Fees
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WEST CALDWELL BR CALDWELL NJ
AUG 31 2017
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Catherine Ryans
45 Cypress Ave
Verona, NJ 07044

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7017 1000 0000 5715 9122

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- ☐ Adult Signature Required $
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Postage
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Total Postage and Fees
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WEST CALDWELL BR CALDWELL NJ
AUG 31 2017
USPS 07006-9998
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Karlis & Louise Ozolins
9 Birch Lane
Verona, NJ 07044

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7017 1000 0000 5715 5216

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- ☐ Adult Signature Required $
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Postage
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New Assests, LLC
67 Elmora Ave
Elizabeth, NJ 07202

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7016 1370 0000 6947 6403

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
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WEST CALDWELL NJ
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Doris Fredrick & Kirk Froehlich
62 Brookside Terrace
Verona, NJ 07044

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7016 1370 0000 6949 2443

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
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Total Postage and Fees
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WEST CALDWELL BR CALDWELL NJ
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Theodore Klingert
43 Oak Lane
Verona, NJ 07044

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7017 1000 0000 5716 0708

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- ☐ Adult Signature Required
- ☐ Adult Signature Restricted Delivery $

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Total Postage and Fees
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Scott & Ninni McGrath
46 Ann Street
Verona, NJ 07044

7017 1000 0000 5715 9023

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
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Sent To
Street
City, S

Patricia J. Del Vecchio
40 Cypress Ave
Verona, NJ 07044

WEST CALDWELL BR CALDWELL NJ
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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

Sent To
Street
City, S

Delores & Norman L. Recchia
9 Schneider Lane
Montville, NJ 07045

WEST CALDWELL BR CALDWELL NJ
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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

Sent To
Street
City, S

Ashgan Abukwaik
41 Cypress Ave
Verona, NJ 07044

WEST CALDWELL BR CALDWELL NJ
AUG 3 1 2017
USPS 07006-9998

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

Sent To
Street
City, S

Albert & Josephine Doerr
48 Ann Street
Verona, NJ 07044

WEST CALDWELL BR CALDWELL NJ
AUG 3 1 2017
USPS 07006-9998

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

Sent To
Street
City, S

Florence P. Noce
19 Willow Terrace
Verona, NJ 07044

CALDWELL BR CALDWELL NJ
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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

Sent To
Street
City, S

Gary & Margaret Ceppos
8 Willow Terrace
Verona, NJ 07044

CALDWELL BR CALDWELL NJ
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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
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Total Postage and Fees
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Sent To
Street and Apt. No.
City, State, ZIP+4®

Carli Crinion
2 Birch Lane
Verona, NJ 07044

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Postage
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Total Postage and Fees
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City, State, ZIP+4®

Stefano Barone & Leah F. Maurin
1 Birch Lane
Verona, NJ 07044

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
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Total Postage and Fees
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Sent To
Street and Apt. No.
City, State, ZIP+4®

John & Mary O'Donnel
44 Ann Street
Verona, NJ 07044

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
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Sent To
Street and Apt. No.
City, State, ZIP+4®

Dana Leblein
61 Brookside Terrace
Verona, NJ 07044

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
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Sent To
Street and Apt. No.
City, State, ZIP+4®

Essex Court Realty
59 Main Street
West Orange, NJ 07052

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- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

Sent To
Street and Apt. No.
City, State, ZIP+4®

Martha & Hugo Paz
43 Cypress Ave
Verona, NJ 07044

WEST CALDWELL BR CALDWELL NJ
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- Certified Mail Restricted Delivery $
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- Adult Signature Restricted Delivery $

Postage
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WEST CALDWELL BR CALDWELL NJ AUG 31 2017 USPS 07006-9998

Sent To
Street and Apt. No.
City, State, ZIP+4®

David & Eva Wallingford
51 Cypress Ave
Verona, NJ 07044

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7017 1000 0000 5715 5230

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$
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $
- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage
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Total Postage and Fees
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Sent To
Street and Apt. No.
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Enzo & Danuta M. Perri
6 Birch Lane
Verona, NJ 07044

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Certified Mail Fee
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Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $
- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage
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Total Postage and Fees
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Postmark Here

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Sent To
Street and Apt. No.
City, State, ZIP+4®

Mario Jr & Angela M. Bucca
10 Birch Lane
Verona, NJ 07044

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Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $
- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage
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Total Postage and Fees
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Sent To
Street and Apt. No.
City, State, ZIP+4®

Ruth Zitt
15 Willow Terrace
Verona, NJ 07044

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Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $
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- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage
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Total Postage and Fees
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Sent To
Street and Apt. No.
City, State, ZIP+4®

Kuen Chin & Wen Tzu Ux
39 Ann Street
Verona, NJ 07044

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Extra Services & Fees (check box, add fee as appropriate)
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- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage
$
Total Postage and Fees
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Sent To
Street and Apt. No.
City, State, ZIP+4®

Erminia F. Conk
60 Brookside Terrace
Verona, NJ 07044

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Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

WEST CALDWELL NJ
AUG 31 2017
Postmark Here
USPS 07006-9998

Sent To: TOWNSHIP OF VERONA
Street and Apt. No., or PO Box No.: ~~VERONA NJ~~ 600 BLOOMFIELD AVE
City, State, ZIP+4®: VERONA NJ 07044

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

August 29, 2017

Landowners within 200 feet of
Block 1201, Lot 3.01
11.62 acre parcel, 25 Commerce Court
Township of Verona, New Jersey 07044

RE: Application submitted by: Mr. Roger Kruvant
Forsons Partners, L.L.C.
71 Valley Street, Suite 204
South Orange, New Jersey 07079

Regarding property at: Property of 25 Commerce Court
11.62 acre parcel
Including Block 1201, Lot 3.01
Township of Verona, New Jersey 07044

Dear Interested Party:

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New Jersey Department of Environment Protection
Division of Land Use Regulation
P.O. Box 420
Trenton, New Jersey 08625-0420
Attn: Essex County Section Chief

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Mr. Roger Kruvant
Forsons Partners, L.L.C.
71 Valley Street, Suite 204
South Orange, New Jersey 07079

Applicant's Agent:

Petry Engineering, LLC
155 Passaic Avenue
Fairfield, New Jersey 07004
(973) 227-7004

August 29, 2017

Essex County Planning Board
900 Bloomfield Avenue
Verona, New Jersey 07044

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Applicant's Agent:

Petry Engineering, LLC
155 Passaic Avenue
Fairfield, New Jersey 07004
(973) 227-7004

August 29, 2017

Municipal Construction Official/Building Department
Township of Verona
600 Bloomfield Avenue
Verona, New Jersey 07044

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155 Passaic Avenue
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(973) 227-7004

August 29, 2017

Municipal Planning Board
Township of Verona
600 Bloomfield Avenue
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August 29, 2017

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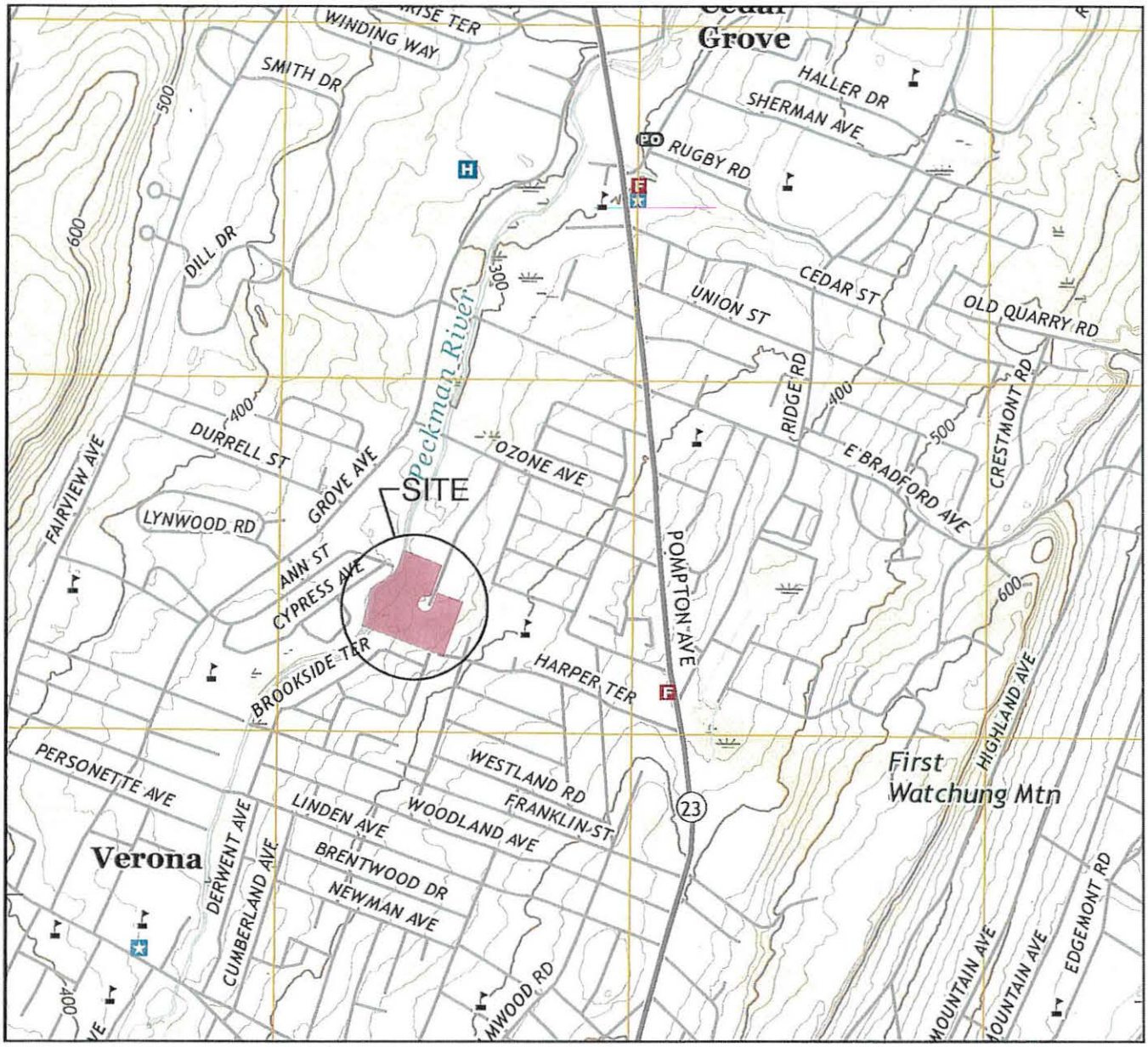


1 0.5 0 KILOMETERS 1 2

1000 500 0 METERS 1000 2000

1 0.5 0 1

MILES

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

FEET

USGS LOCATION MAP

N

PREPARED FOR

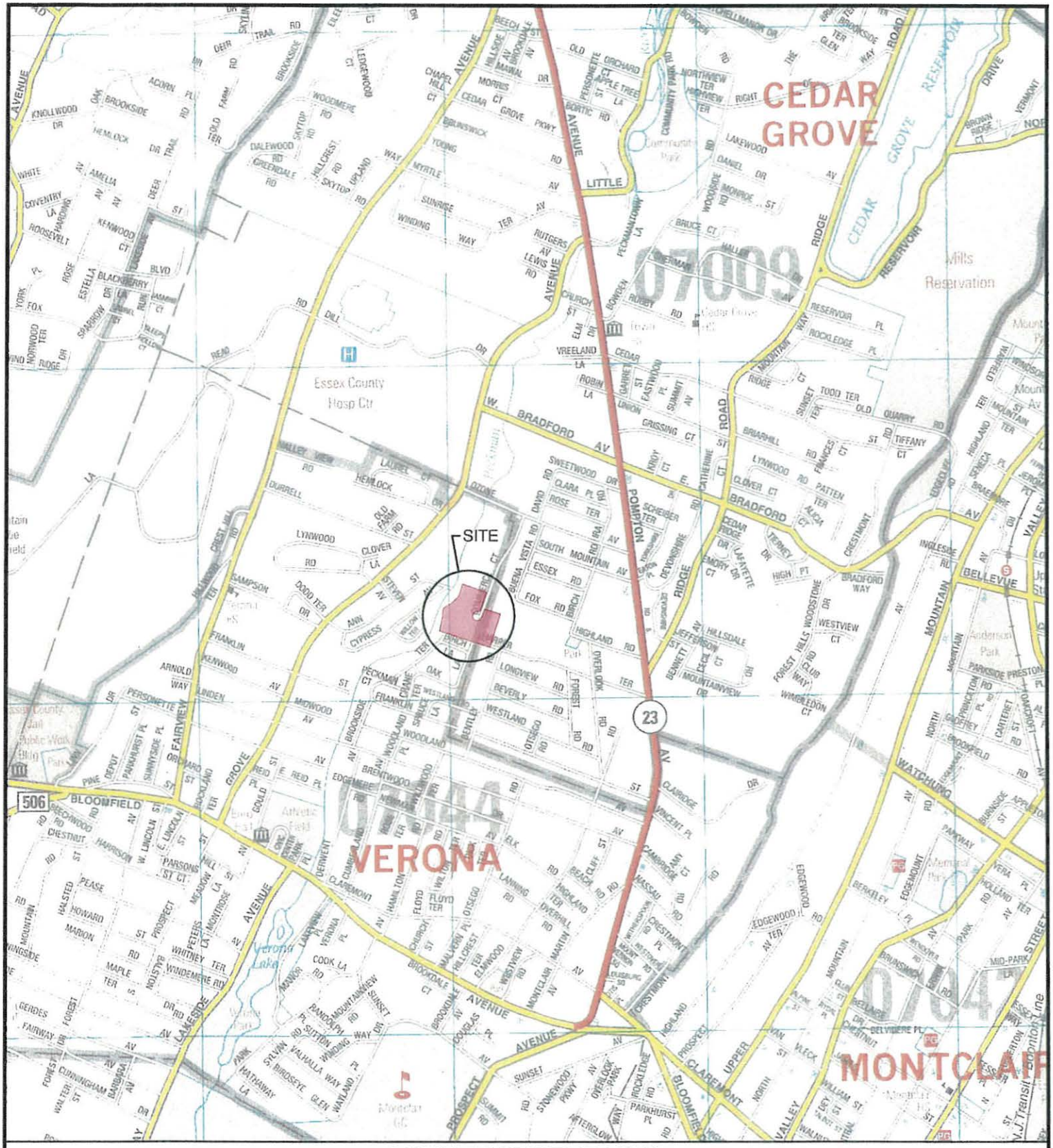
FORSONS PARTNERS, LLC

LOT 3.01 BLOCK 1201
TOWNSHIP OF VERONA
ESSEX COUNTY NEW JERSEY

REFERENCES:
PORTION OF THE USGS ORANGE NJ QUADRANGLE MAP, DATED 2016
SITE COORDINATES: E (X) 565,196.85 N (Y) 731,171.89
CONTOUR INTERVAL : 20 FT. NAVD 1988
TO CONVERT FROM METERS TO FEET, MULTIPLY BY 3.28

PETRY ENGINEERING, LLC
DIVISION OF CONSUMER AFFAIRS LICENSE NUMBER 24GA28039800
155 PASSAIC AVENUE • FAIRFIELD • NEW JERSEY • 07004
TEL (973) 227-7004 FAX (973) 227-7074

Designer:	JMP
Draftsman:	CVF
Checked By:	JAL
Project No.:	16-0169
Scale:	1" = 1500'
Sheet:	Fig. No.1



COUNTY STREET MAP

PREPARED FOR

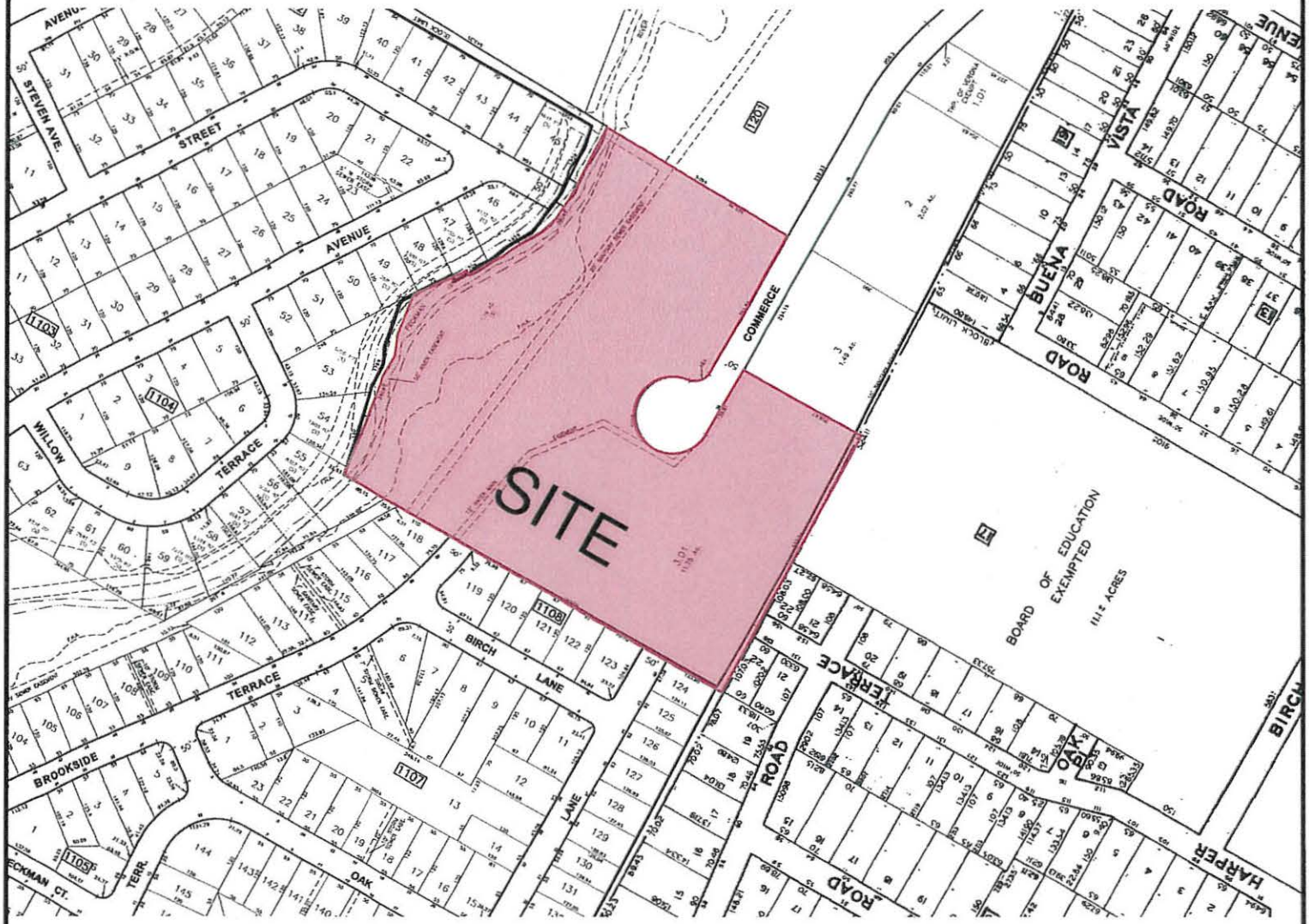
FORSONS PARTNERS, LLC

LOT 3.01 BLOCK 1201
TOWNSHIP OF VERONA
ESSEX COUNTY NEW JERSEY

REFERENCES:
PORTION OF THE ESSEX COUNTY HAGSTROM STREET MAP

PETRY ENGINEERING, LLC
DIVISION OF CONSUMER AFFAIRS LICENSE NUMBER 24GA28030900
155 PASSAIC AVENUE • FAIRFIELD • NEW JERSEY • 07004
TEL. (973) 227-7004 FAX (973) 227-7074

Designer:	JMP
Draftsman:	CVF
Checked By:	JAL
Project No.:	16-0169
Scale:	1" = 2000'
Sheet:	Fig. No.2



TAX MAP

PREPARED FOR

FORSONS PARTNERS, LLC

LOT 3.01 BLOCK 1201

TOWNSHIP OF VERONA

ESSEX COUNTY NEW JERSEY

REFERENCES:
TOWNSHIP OF VERONA AND WEST ORANGE TAX MAPS

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155 PASSAIC AVENUE • FAIRFIELD • NEW JERSEY • 07004
TEL (973) 227-7004 FAX (973) 227-7074

Designer:	JMP
Draftsman:	CVF
Checked By:	JAL
Project No.:	16-0169
Scale:	1 : 300'
Sheet:	Fig. No.3

ITEM NO.7

PHOTO-LOG

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF LAND USE REGULATION

APPLICATION FOR FRESHWATER WETLANDS LINE VERIFICATION
LETTER OF INTERPRETATION

FOR:

11.62 ACRE PARCEL INCLUDING
BLOCK 1201; LOT 3.01

25 COMMERCE COURT
TOWNSHIP OF VERONA
ESSEX COUNTY, NEW JERSEY

PREPARED FOR:

Mr. Roger Kruvant
Forsons Partners, L.L.C.
71 Valley Street, Suite 204
South Orange, New Jersey 07079

PREPARED BY:

PETRY ENGINEERING, LLC
155 PASSAIC AVENUE
FAIRFIELD, NEW JERSEY 07004

AUGUST 29, 2017

PHOTO #1 – View looking East at the entrance to the site to access Wetland Area "A" and the Open Waters Delineation. The photo is taken at the end of Brookside Terrace looking into the subject property, 25 Commerce Court, Block 1201, Lot 3.01. Photo Date: 07/12/2017.

PHOTO #2 – View looking Northeast down Peckman River (R3OW) at the start of the Open Waters Delineation. Photo Date: 07/12/2017.

PHOTO #3 – View looking Northeast towards concrete encased sanitary sewer that crosses the Peckman River, nearest to the Verona Wastewater Treatment Plant. Photo Date: 07/12/2017.

PHOTO #4 – View looking Southwest at the deteriorated storm sewer outfall structure nearest to plot/point OW-3. Photo Date: 07/12/2017.

PHOTO #5 – View looking East downstream of the Peckman River approximately halfway down the delineated portion of the Peckman River that is adjacent to the site property limits. Photo Date: 07/12/2017.

PHOTO #6 – View looking West upstream of Peckman River approximately halfway down the delineated portion of the Peckman River which is adjacent to the site. Photo Date: 07/12/2017.

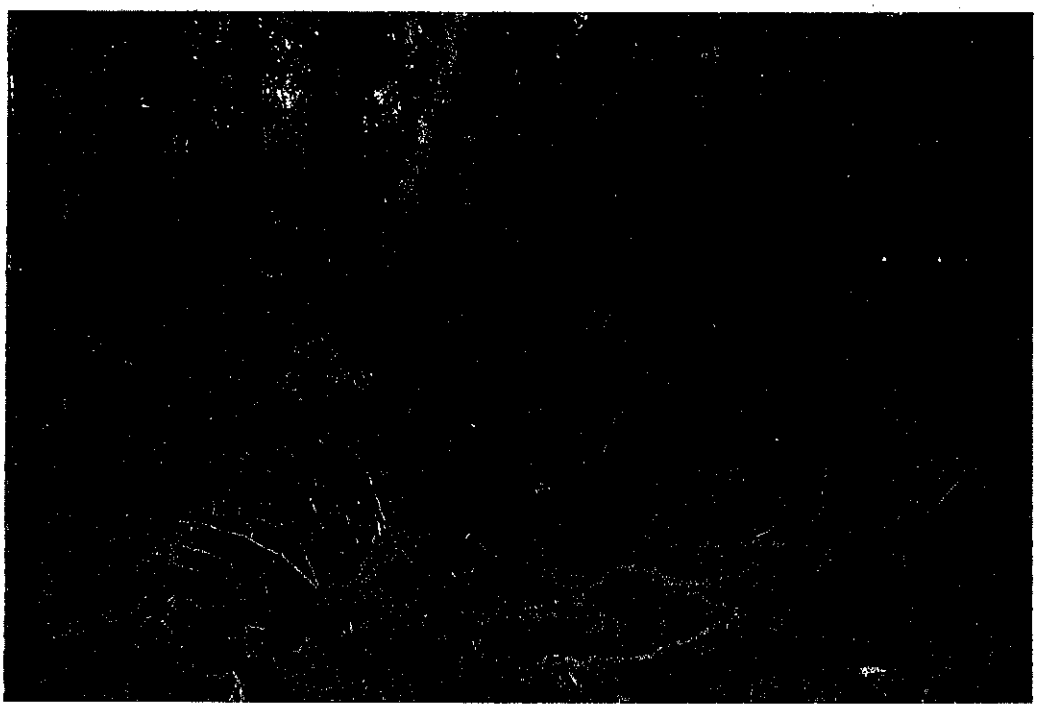

PHOTO #7 – Looking South at entrance of the Palustrine, Forested, Broad-leaved Deciduous, temporarily saturated (PFO1A) Wetland Area "A" between plots/points OW-8 & OW-9. Points in the foreground include WA-1 & WA-25. Photo Date: 07/12/2017.

PHOTO #8 – Looking North at Wetland plot/point WA-9 and associated transect. Note the transect at plot/point WA-19 to the left and background of the picture which delineates the Wetland Limits. Photo Date: 07/12/2017.

PHOTO #9 – View looking Southeast along the wetland border which hugs the upland slope area that leads to the Township of Verona leaf/compost facility. Note the distinct break in vegetation. Photo Date: 07/12/2017.

PHOTO #10 – View looking Southeast into Wetland Area "A". Note the extensive Skunk Cabbage, high roots, and tree buttressing. Photo Date: 07/12/2017.

PHOTO #11 – View looking North towards the second entrance to the Wetland Area "A" from Wetland plot/point WA-11. Note the vegetation and boundary limits as well as the transect at WA-12. Photo Date: 07/12/2017.

PHOTO #12 – View looking Northwest at the secondary entrance to Wetland Area "A" adjacent to the Peckman River between points OW-9 & OW-10. Plots/points shown are WA-14 & WA-15. Photo Date: 07/12/2017.

PHOTO #13 – View looking Southwest towards the site entrance to access Wetland Area "B". The photo is taken along Commerce Court immediately prior to the cul-de-sac looking into the subject property located on 25 Commerce Court. Block 1201, Lot 3.01, Township of Verona, NJ. Photo Date: 07/13/2017.

PHOTO #14 – Wetland plot/point WB-1 showing the boundary between the upland and wetland areas. Note the distinct change in vegetation from Swamp Milkweed (in wetland area) to Common Milkweed (in upland area). Photo Date: 07/13/2017.

PHOTO #15 – View looking Southeast into the Palustrine, Emergent mixed with Palustrine Scrub-Shrub, Broadleaved deciduous (PEM1B/PSS1B), Wetland Area "B" from the vicinity of Wetland plot/point WB-4. Photo Date: 07/13/2017.

PHOTO #16 – View looking Northeast along the rear border of Wetland Area "B". Note the change in slope between the wetland and upland areas. Photo Date: 07/13/2017.

PHOTO #17 – View looking East into the center of Wetland Area "B". The soil was saturated within the very center of the wetland. Photo Date: 07/13/2017.

Map Unit Legend

Essex County, New Jersey (NJ013)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BogBc	Boonton loam, 0 to 8 percent slopes, extremely stony	11.7	41.5%
BogCc	Boonton loam, 8 to 15 percent slopes, extremely stony	1.4	5.0%
BouB	Boonton - Urban land, Boonton substratum complex, 0 to 8 percent slopes	6.9	24.3%
KneB	Knickerbocker fine sandy loam, 3 to 8 percent slopes	1.8	6.4%
PecuuB	Peckmantown - Urban land, Peckmantown substratum complex, 0 to 8 percent slopes	3.0	10.7%
UcdAt	Udifluvents, 0 to 3 percent slopes, frequently flooded	2.1	7.5%
UdbonB	Udorthents, Boonton substratum, 0 to 8 percent slopes	1.3	4.6%
Totals for Area of Interest		28.2	100.0%

USDA - NRCS WEB SOIL SURVEY

N

PREPARED FOR

FORSONS PARTNERS, LLC

LOT 3.01 BLOCK 1201
TOWNSHIP OF VERONA
ESSEX COUNTY NEW JERSEY

REFERENCES:
USDA, NRCS WEBSOIL SURVEY FOR ESSEX COUNTY, JULY 2017.

PETRY ENGINEERING, LLC
DIVISION OF CONSUMER AFFAIRS LICENSE NUMBER 24GA28039800
155 PASSAIC AVENUE • FAIRFIELD • NEW JERSEY • 07004
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Designer: JMP	
Draftsman: CVF	
Checked By: JAL	
Project No.: 16-0169	
Scale: 1 : 300'	
Sheet:	Fig. No.4

FRESHWATER WETLANDS AND STATE OPEN WATERS DELINEATION REPORT

APPLICATION FOR LINE VERIFICATION
LETTER OF INTERPRETATION
BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF LAND USE REGULATION

11.62 ACRE PARCEL INCLUDING
BLOCK 1201; LOT 3.01

25 COMMERCE COURT
TOWNSHIP OF VERONA
ESSEX COUNTY, NEW JERSEY

PECKMAN RIVER SUB-WATERSHED
LOWER PASSAIC RIVER WATERSHED, PASSAIC RIVER DRAINAGE BASIN
(SADDLE TO POMPTON)
SUB-WATERSHED HYDROLOGIC UNIT CODE: 02030103120010

PREPARED FOR

Mr. Roger Kruvant
Forsons Partners, L.L.C.
71 Valley Street, Suite 204
South Orange, New Jersey 07079

PREPARED BY

PETRY ENGINEERING, LLC.
155 PASSAIC AVENUE
FAIRFIELD, NEW JERSEY 07004

AUGUST 29, 2017

FRESHWATER WETLANDS AND STATE OPEN WATERS DELINEATION REPORT

Mr. Roger Kruvant
Forsons Partners, L.L.C.
71 Valley Street, Suite 204
South Orange, New Jersey 07079

11.62 ACRE PARCEL INCLUDING
BLOCK 1201; LOT 3.01
25 COMMERCE COURT

TOWNSHIP OF VERONA, ESSEX COUNTY, NEW JERSEY

PECKMAN RIVER SUB-WATERSHED
LOWER PASSAIC RIVER WATERSHED, PASSAIC RIVER DRAINAGE BASIN
(SADDLE TO POMPTON)
SUB-WATERSHED HYDROLOGIC UNIT CODE: 02030103120010

In mid July 2017, a Freshwater Wetlands and State Open Waters delineation was performed using the **Federal Manual for Identifying and Delineating Jurisdictional Wetlands** (1989). The "Three-Parameter" approach/methodology (routine on-site determination) was used for the study area located in the western portion of the Lower Passaic River Watershed. The study area is located approximately 1,900 feet west of Pompton Avenue, 4,700 feet north of Bloomfield Avenue, just south of the Verona Wastewater Treatment Plant, at the end of the cul-de-sac located on Commerce Court. The Peckman River runs along the north-west property line of the subject property.

The subject 11.62 acre property is designated as Lot 3.01 in Block 1201 on the Township of Verona Tax Maps. (See Fig. 1 & 2 for location). The irregular shaped parcel is shown to be approximately 760 feet wide and approximately 790 feet deep along the greatest length. The study area begins immediately northwest of Brookside Terrace just upstream of the outfall of the storm sewer easement along the Peckman River.

The subject property is currently owned by Forsons Partners, LLC. The Township of Verona (Township) leaf/compost facility is centrally located on the property surrounding the cul-de-sac on Commerce Court. Three separate easements exist on the property, including a sanitary sewer, storm sewer and waterline easement. The 20' wide sanitary sewer runs roughly parallel to the Peckman River and adjacent to Wetlands Area "A". The sewer lines connect to the Verona Wastewater Treatment Plant located northeast of the property. The subject property is generally surrounded by a suburban, primarily residential land-use area, with the exception of the Verona Wastewater Treatment Plant to the north. Signs of disturbance to the site include landscape brush piles along residential properties, and "spoil" piles of soil and rock, likely a result of construction of the utility easements that traverse the property. With the exception of the two wetland areas

"A" & "B", a majority of the property is situated within previously disturbed uplands that includes wooded and semi-wooded areas.

The generally south-to-north sloping subject property is topographically variable due to the natural glacial terrain overlain by historical fill deposits, erosion from the Peckman River, previous construction work from utility construction, and current land uses of the property. These past disturbances have effected the hydrology, soils, and vegetation of the entire landscape use developments.

An application for a Line Verification Letter of Interpretation, File No. 0720-05-0001.1.1 FWW 050001 was submitted to the New Jersey Department of Environmental Protection (NJDEP), Division of Land Use Regulation, by McCumsey-Petry. The LOI was verified/issued March 04, 2006 (see Appendix), but now expired. There is no other known regulatory history for the subject property with the NJDEP, Division of Land Use Regulation.

A total of two separate vegetated Freshwater wetlands and a State Open Waters line were located on the property. Wetland Area "A" is connected and tributary to the Peckman River and becomes inundated when floodwaters from the Peckman River rise to the elevation of the wetlands. Wetland Area "B" is considered isolated and non-tributary/ unconnected. The State Open Waters line found and delineated on the subject property is located along the banks of the Peckman River. These three delineation areas, outlined by numbered stake flags in the field, are shown on the attached 1"= 40' scale topographic Freshwater Wetlands and State Open Waters Delineation maps for the property under the following designations:

- OW Line (field flag symbol OW) consists of plots/points OW-1 through OW-14 starting at the southwest property line and running along the State Open Waters/Upland boundary of the Peckman River that forms the western boundary of the property and, eventually, leaves the northwestern portion of the property to flow into the adjacent Verona Waste Water Treatment Plan property. Four upland reference transect plots/points were located in this delineation area.

- WA Line (field flag symbol WA) consists of plots/points WA-1 through WA-25 at the wetland boundary and swale area located adjacent and connected to the Peckman River. The first Plot/point WA-1 is located nearest to State Open Waters point OW-8, at the most upstream portion of the Peckman River that is adjacent to the site. The emergent wetland area is generally "U" shaped and connects back into the Peckman River approximately 120 feet downstream of plot/point WA-1. It runs counterclockwise (from the northern point) towards the Verona Wastewater Treatment Plant and considered connected and tributary to the Peckman River. The majority of the delineation encloses the upland-wetland boundary for a Palustrine, Forested, Broad-leaved Deciduous, temporarily Saturated wetland area (PFO1A) designated in this study as Freshwater Wetlands Area "A". The wetland-upland boundary continues to Plot/point WA- 25. The delineation contains six pairs of Upland and Wetland reference transect plots/points associated with plots/points WA-3, WA-6, WA-9, WA-12, WA-19 and WA-24. The plots/points WA-12 and WA-24 have upland reference points only.

- WB Line (field flag symbol WB) consists of plots/points WB-1 through WB-14 at the wetland boundary area located in the rear south corner of the property and just beyond the Township leaf/compost facility piles. The first Plot/point WB-1 is located approximately 140 feet southwest of the cul-de-sac and runs counter clockwise (from the northern point) towards the rear corner of the property. The wetland area is generally circular in shape and considered isolated and non-tributary/unconnected. The majority of the delineation encloses the upland-wetland boundary for a Palustrine, Emergent mixed with Palustrine Scrub-Shrub, Broad-leaved deciduous wetland area (PEM1B/PSS1B) designated in this study as Freshwater Wetlands Area "B". The wetland-upland boundary continues to Plot/point WB- 14. The delineation contains four pairs of Upland and Wetland reference transect plots/points associated with boundary plots/point WB-2, WB-5, WB-8 and WB-11.

The following discussion summarized our findings:

HYDROLOGY

The subject site is located in the western portion of the Lower Passaic River Watershed and is shown on the Orange, NJ U.S.G.S. 7.5 Minute Series Quadrangle map (see Fig. 2). The Peckman River is mapped as a blue-line/perennial streams are shown on the USGS 7.5 minute series Orange, NJ 2016 map within the property limits. The river channel is approximately 400 feet away from the center of the subject property and a 20' wide sanitary sewer line easement runs parallel to the river. The subject site is located in the approximate central portion of the Peckman River Sub-Watershed.

The Peckman River continues as a perennial/permanent stream beyond the north boundary of the subject property. Adjacent to Lot 3.01, the river possesses a generally 15-to-25 foot wide and 1-to-3 foot deep normal channel. The northwestern portions of the subject property, nearest to the Peckman River are inundated by the 100 year and NJ Flood Hazard Area events as shown on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for the Township of Verona, NJ. (see Fig. 3). The determined elevation based on FEMA Flood Insurance Rate Map (FIRM), Panel 103 of 200, Map # 34013C0103F, Dated June 4th, 2007 as well as the FEMA Flood Profiles for the Peckman River, Panel 105P show a 100-Year Base Flood Elevation of approximately 322 at the southwestern corner of the subject property (Upstream) and 316 at the northeastern corner of the subject property (Downstream). These elevations are in NAVD 88 Datum. Both the 100-year and NJFHA Event (100-Year Base Flood Elevation+1 foot) are generally confined below the top-of-banks of the Peckman River within the limits of the subject property, except for the swale/Wetland Area "A" that was delineated (located mid-property) which can become inundated during high stream flows. This is consistent with the FEMA mapping.

The Peckman River is located within the Lower Passaic River Watershed, which is part of the Regional Passaic Drainage Basin. This reach of the main stem of the Peckman River is presently classified by the New Jersey Department of Environmental Protection (NJDEP) as FW2 (Non-Trout) R3OW for water quality management purposes.

Wetland Area "A" are shown and classified as "wetlands" (PFO1A) on the existing US Fish and Wildlife Service, National Wetlands Inventory (NWI) map covering the study area (see Fig 4A). Wetland Area "B" is not shown or classified as "wetlands" on the National Wetlands Inventory (NWI) map. The Peckman River in the vicinity of the subject property is classified as Riverine, Upper Perennial, Open Water (R3OW) wetlands/water type. As mentioned above, Wetland Area "A" adjacent to the Peckman River is classified as Palustrine, Forested, Broad-leaved Deciduous, temporarily Saturated wetland area (PFO1A). Wetland Area "B", isolated and surrounded by uplands is classified as Palustrine, Emergent mixed with Palustrine Scrub-Shrub, Broad-leaved deciduous wetland area (PEM1B/PSS1B).

The internal site drainage pattern (and source of water to the Peckman River and adjacent wetlands) consists primarily of overland flow from the surrounding developed and undeveloped upland areas located in the higher terrain. These upland areas for both Wetland Areas "A" & "B" are located to the southeast.

A buried 36" CMP appears to convey stormwater from the Harper Terrace area across the southern portion of the property and ultimately discharges near the southwest corner of the property into the Peckman River. The remainder of the on-site overland flow is simply allowed to run down the undeveloped slopes to the river channel or infiltrate to recharge the sub-surface groundwater system. The entire site exhibits obvious evidence of sheet erosion, scour and deposition, likely from poor stormwater management practices from the adjacent developed upland properties as well as past construction disturbances from utility line construction.

Wetland Area "A" which occupies the swale-like area adjacent to the Peckman River that is temporarily inundated during high flows was likely formed by a combination of scour from overland flows from the southeast and high flows in the Peckman River. The wetland boundary is also located at the break in the slope on the property where overland flow and groundwater discharge meet allowing for long duration inundation/saturation. There is no evidence of regular stream bank overflow sufficient to produce long duration inundation and/or saturation in Wetland Area "A". Saturated soil conditions are likely noticeable in early spring.

Wetland Area "B" which is located in the south corner of the property is surrounded by uplands and likely a result of a shallow fragipan, as well as runoff from adjacent upland/developed areas (including the Verona leaf/composting facility). Saturated soil conditions were regularly encountered through Wetland Area "B".

Wetland Area "A", adjacent to the Peckman River is hydrologically connected and tributary to the Peckman River surface water tributary system. Wetland Area "B" in contrast is non-tributary/unconnected to other wetlands, including Wetland Area "A", and the Peckamn River.

SOILS

There is currently a published modern U.S. Department of Agriculture, Soil Conservation Service (SCS) Soil Survey Report for Essex County, New Jersey. The US Department of Agriculture, Natural Resources Conservation Service (NRCS) currently has soils mapping and interpretive data available from the Web Soil Survey for Essex County. The Web Soil Survey soil maps, legends, and soil series descriptions covering the subject wetland delineation study area were obtained from the current NRCS web site source.

As interpreted by the NRCS, seven different soil series (seven map units) that are on the Map Unit Legend Summary for "Soil Survey of Essex County, New Jersey" are present on or directly adjacent to the subject property (see Fig. 5). A majority of the subject property is covered by Boonton Loam, 0-to-8 percent slopes (BogBc) soils. The very western portion of the site adjacent to, and along the Peckman River is mapped as Knickerbocker fine sandy loam, 3-to-8 percent slopes (KneB) soils, while the soils within the vicinity of Wetland Area "A" (and along the western portion of the site) is mapped as Udifluvents, 0-to-3 percent slopes (UcdAt) soils.

On-site soils were investigated, as feasible, per the Federal Manual for Identifying and Delineating Jurisdictional Wetlands and NJDEP standards, by means of hand auger borings/probes (20-inch depth). The wetlands boundary points and additional wetlands-uplands transect points were established along the assumed boundary between the locally hydric inclusions within the Boonton Loam (BogBc) and Udifluvents (UcdAt) soils.

The Open Waters points and transect points were established along the boundary of the Peckman River within the Knickerbocker fine sandy loam (KneB) soil. Additional "spot" borings were made throughout the upland portions along the stream to confirm non-hydric conditions.

The Boonton-series soils is mapped across the majority of the site and is defined as deep or very deep moderately well to well drained soils. Booton loam (BogBc) was the specific soil type defined for the majority of the property. The Boonton series soil is classified as Hydrologic Group C, moderately well and well drained soils with slow to rapid surface runoff. A perched water table sits 46 to 91 cm below the surface from November to May. These soils have a fragipan (bedrock) at depth greater than 48 inches (122 cm) while the top of the fragipan can be found between 50 and 91 cm below the surface. These local Boonton soil series are not currently included in the "NJ List of Hydric Soils".

The Udifluvents series soils is mapped within the area of delineated Wetland Area "A" and is often found near floodplains. It is moderately well drained, with some poorly/somewhat poorly drained Fluvaquents. The Udifluvents series soil is classified as Hydrologic Group A/D. This variable classification in hydrologic groups is due to the fact that the groundwater table can be 18 to 42 inches of the surface during the late winter and early spring prohibiting rapid drainage of the soils and also accounts for complete runoff from any impervious surface areas. These local Udifluvents soil series are currently included in the "NJ List of Hydric Soils".

The Knickerbocker series soils is mapped along the western portion of the site adjacent to, and along the Peckman River and is defined as very deep, well and somewhat excessively drained soil. Knickerbocker fine sandy loam (KneB) was the specific soil type mapped for the above specified location on site along the Peckman River. The Knickerbocker series soil is classified as Hydrologic Group A, with well or somewhat excessively drained soils. These local Knickerbocker soil series are not currently included in the "NJ List of Hydric Soils".

Based on our field evaluations of the wetlands areas, the observed soil matrix color was typically very dark grayish brown (10YR 3/2) to dark grayish brown (10YR 4/2) to brown (7.5YR 4/3). Redox concentrations (mottling) typically present included brown and strong brown (7.5YR 4/4 and 7.5YR 4/6). The observed soil matrix color was typically brown (10YR 4/3) for those Open Water Points along the Peckman River. Those soils observed along the Open Waters and Wetland Area "A" delineations were generally slightly moist to dry, with free standing water at depths greater than 18" below the ground surface during the summer of 2017. Those soils observed within Wetland Area "B" were generally saturated with free standing water approximately 2"-4" below the ground surface. The investigations of the on-site upland soils were found to have a typically variably deep surface layer (A-horizon) of generally the same soil matrix colors mentioned above. Mottling was usually present in both the A and B horizons. The seasonal ground water table is assumed to be below this depth in upland areas throughout the growing season.

VEGETATION

Wetland Area "A" is currently mapped as "wetlands" on both the current U.S. FWS, National Wetlands Inventory (NWI) map (Fig. 4 A) and the NJ-GeoWeb map (Fig. 4B). Wetland Area "B" is not mapped as "wetlands" on both the current U.S. FWS, National Wetlands Inventory (NWI) map (Fig. 4 A) and the NJ-GeoWeb map (Fig. 4B). The subject field study confirmed that Wetland Area "A" is indeed Palustrine, Forested, Broad-leaved Deciduous, temporarily Saturated wetland area (PFO1A). The subject field study for Wetland Area "B" indicates Palustrine, Emergent mixed with Palustrine Scrub-Shrub, Broad-leaved deciduous wetland area (PEM1B/PSS1B). Wetland Area "A" is within, and inundated by the 100 year storm event according to FEMA mapping. Wetland Area "B" is outside of any flood events, including the Flood Hazard Area design storm. Both wetland areas on the subject parcel are located within the Passaic River Basin and makes them, by definition, a USEPA Priority Wetland, Specific Geographic Area.

As mentioned above, 2 separate Wetland Areas ("A" & "B") were delineated on the property as well as a State Open Waters Line "OW". The vegetation located along the State Open Waters Line and Wetland Area "A" closely resemble each other. The vegetation located in Wetland Area "B" varies slightly from that in Wetland Area "A".

Wetland Area "A"

The PFO1A (secondary growth deciduous forest) wetland which occupies the swale area, Wetland Area "A" adjacent to and just east of the Peckman River, located in the western portion of the property has a canopy which is dominated by variously-sized trees. These tree species included Facultative-upland (FACU) White Ash (Fraxinus americana) and American Beech

(Fagas grandifolia). Red Maple (Acer rubrum) (FAC) and American Elm (Ulmus Americana) (FACW) were also dominate trees. The sapling layer consisted mostly of Red Maple (Acer rubrum) and American Beech (Fagas grandifolia). Spice Bush (Lindera benzoin) (FACW) and Multiflora Rose (Rosa multiflora) were the most common the shrubs. The most common vine species within the wetland area includes poison ivy (Toxicodendron radicans) (FAC) and Virginia Creeper (Parthenocissus quinquefolia) (FACU).

The wetland herb layer within Wetland Area "A" was dominated by facultative (FAC), facultative-wet (FACW) and obligate (OBL) plants indicating temporary inundation as well as saturated to moist soil conditions. The area contained Obligate (OBL) species including Skunk Cabbage (Symplocarpus foetidus) facultative-wet (FACW) species including Sensitive Fern (Onoclea sensibilis), facultative (FAC) species including New York Fern (Thelypteris noveboracensis) and Shield Fern (Spinulosa dryopteris). Facultative-upland (FACU) and Upland (U) plant species were found within the drier upland/transition areas of the wetland. Facultative-upland (FACU) plants included White Wood Aster (Aster divaricatus) and Garlic mustard (Alliaria petiolate) while Pachysandra (Pachysandra terminalis) dominated the Upland (UPL) plants.

Wetland Area "B"

The PEM1B/PSS1B (early-to-late successional fields, scrub-shrub) located in the south corner of the property adjacent to the Township leaf/compost facility piles was delineated as Wetland Area "B". The wetland area includes scattered individuals or small groves of young trees, some of which likely volunteered into the area from the leaf/compost facility. While the dominate species of trees found were facultative-wet (FACW) and facultative, a few facultative-upland (FACU) and Upland (UPL) species were also noted included London Planetree (Platanus x hispanica) (UPL) and American Poplar (Liriodendron tulipifera) (FACU), especially at the transition area/uplands of Wetland Area "B". Facultative-wet (FACW) trees included Weeping Willow (Salix babylonica) and Pin Oak (Quercus palustris). Dominate facultative trees (FAC) included Sweetgum (Liquidambar styraciflua) and Red Maple (Acer rubrum). The sapling layer was dominated by Red Maple (Acer rubrum) (FAC), Green Ash (Fraxinus pennsylvanica) (FACW) and Crab Apple (Malus baccata) (UPL).

The most common shrubs included American Pussy Willow (Salix discolor) (FACW), Swamp Dogwood (Cornus foemina) (FAC), Multiflora Rose (Rosa multiflora) (FACU), and Japanese Silverberry (Elaeagnus umbellata) (UPL). The most common vine species within the wetland area includes poison ivy (Toxicodendron radicans) (FAC) and Virginia Creeper (Parthenocissus quinquefolia) (FACU).

The wetland herb layer within Wetland Area "B" was mostly dominated mostly by facultative (FAC), facultative-wet (FACW) and obligate (OBL) plants indicating inundation as well as saturated to moist soil conditions. The area contained Obligate (OBL) species including Green Bulrush (Scirpus atrovirens), facultative-wet (FACW) species including Common Reed (Phragmites australis), Panicgrass (Panicum rigidulum) and Jack in the Pulpit (Arisaema triphyllum) and facultative (FAC) species including Japanese stiltgrass (Microstegium

vimineum). One common Upland (U) plant species found included Dogbane (Apocynum cannabinum) nearest to the upland leaf/compost piles.

The riparian forest buffer located adjacent to the steep-banked Peckman River (State Open Waters) was found to lack dominance by hydrophytic/wetland vegetation either above or below the banks of the channel. Typical stream-side trees that were observed included Red Maple, Norway Maple, White Ash, American Beech, and Sweet Birch. Japanese Knotweed (Polygonum cuspidatum) and Garlic Mustard (Alliaria petiolate) were the dominate herbs species present in this area.

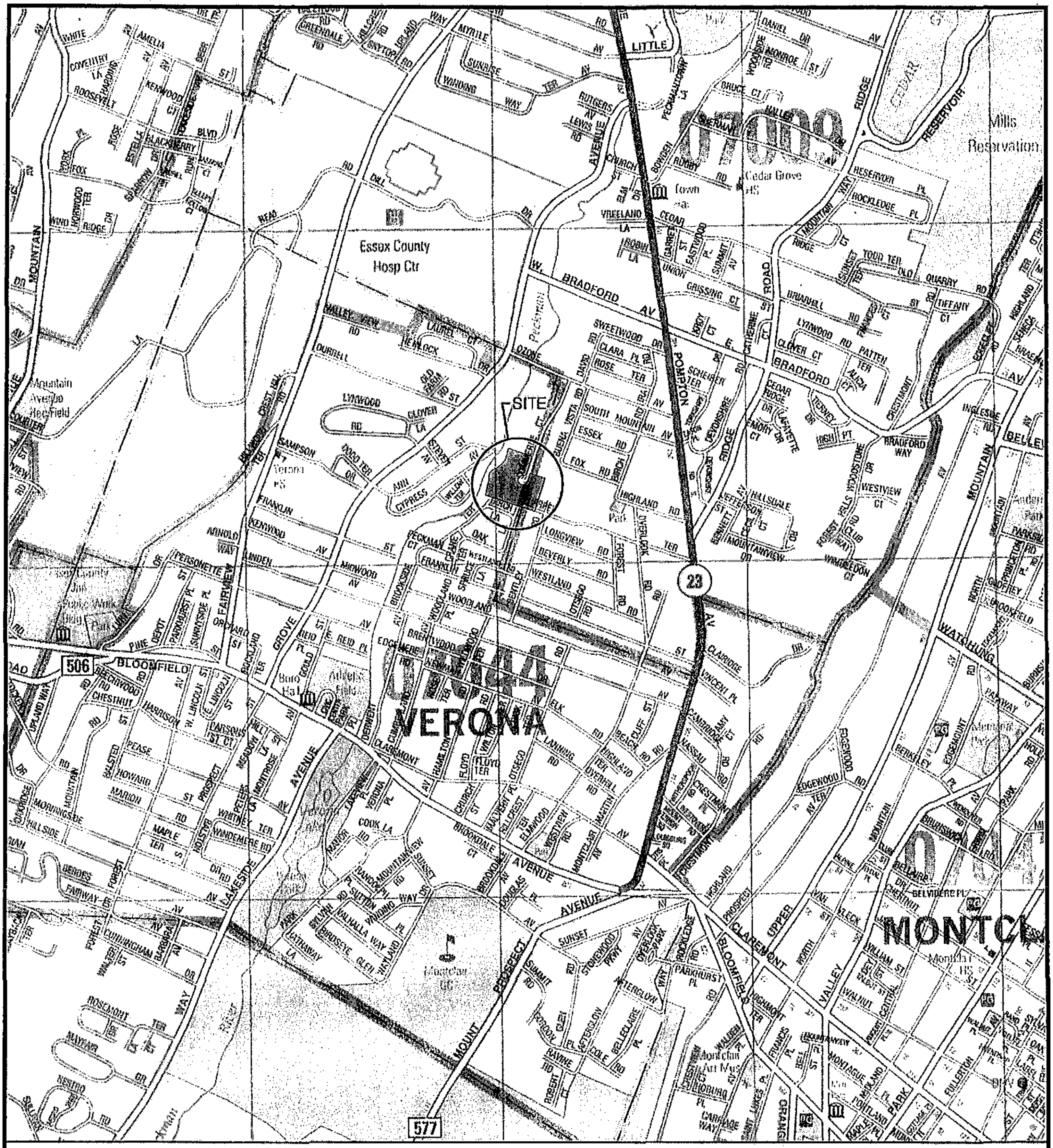
SUMMARY

Based on our July 12th & July 13th, 2017 field investigations:

The on-site reach of the Peckman River can be considered a Riverine Floodplain-in-stream habitat (R3OW) (State Open Waters).

Wetland Area "A", Palustrine, Forested, Broad-leaved Deciduous, temporarily Saturated wetland area (PFO1A) is connected and tributary to the Peckman River through two intermittent outlets. It also hydrologically functions as a swale and we believe it qualifies for an Intermediate Resource Value Classification with a 50-foot wide Standard Transition Area. Since it is both connected and tributary to the Peckman River, and also located within the 100-year floodplain within the Passaic River Basin per the most current FEMA mapping, it would be considered an EPA Priority Wetland.

Wetland Area "B", Palustrine, Emergent mixed with Palustrine Scrub-Shrub, Broad-leaved deciduous wetland area (PEM1B/PSS1B) is non-tributary and unconnected, located above the 100-year floodplain elevation. It would be exempt from the EPA Priority Classification. We believe it would qualify for an Intermediate Resource Value Classification with a 50-foot wide Standard Transition Area.



COUNTY ROAD MAP

PREPARED FOR

FORSONS PARTNERS, LLC

LOT 3.01 BLOCK 1201
TOWNSHIP OF VERONA
ESSEX COUNTY NEW JERSEY

Designer:	JMP
Draftsman:	CVF
Checked By:	JAL
Project No.:	15-0169
Scale:	1"=2000'
Sheet:	Fig. No.1

REFERENCES:
PORTION OF THE ESSEX COUNTY HAGSTROM STREET MAP

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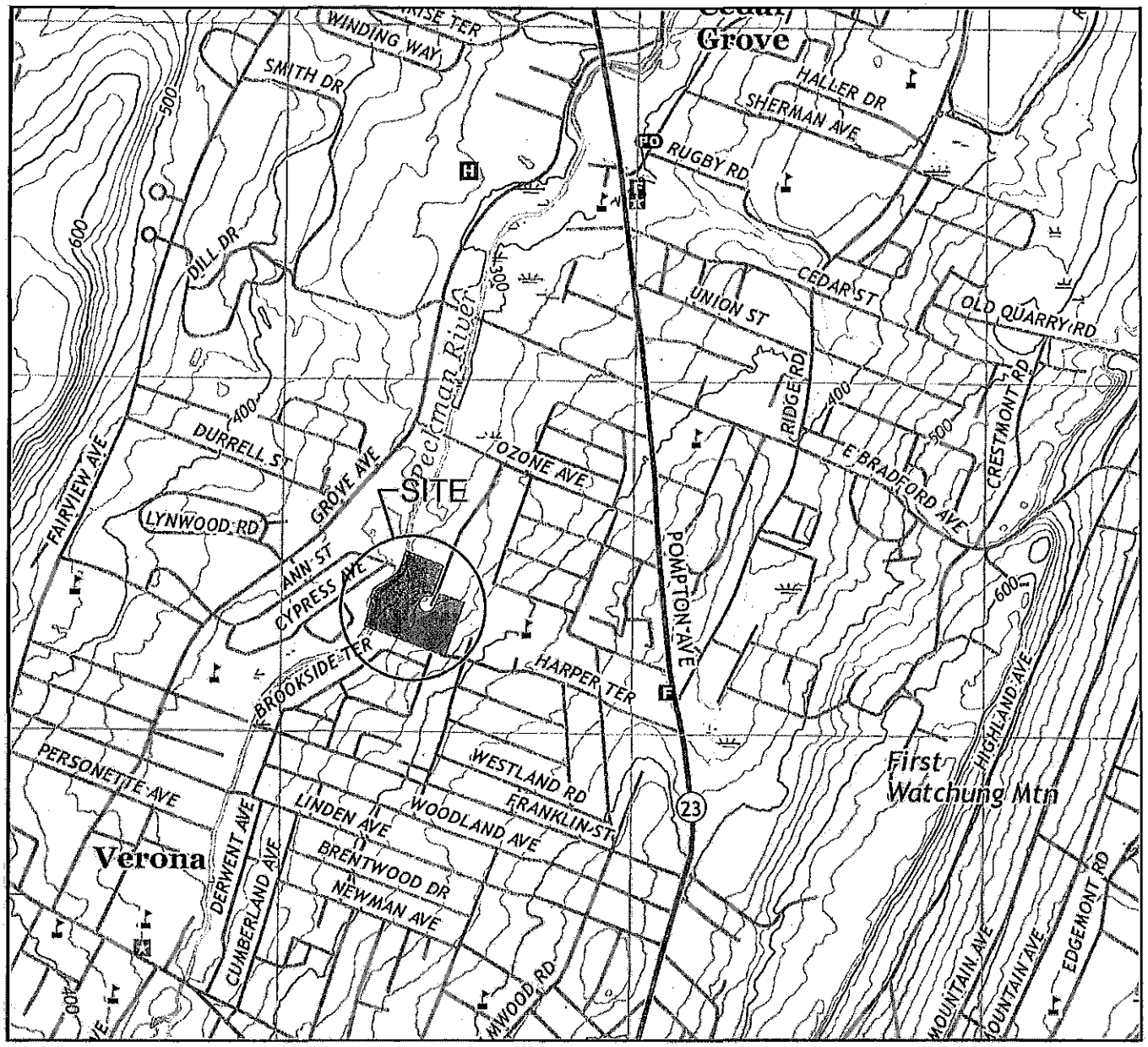

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1 0.5 0 1

MILES

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

FEET

CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

USGS LOCATION MAP

N

PREPARED FOR

FORSONS PARTNERS, LLC

LOT 3.01 BLOCK 1201
TOWNSHIP OF VERONA
ESSEX COUNTY NEW JERSEY

REFERENCES:
PORTION OF THE USGS ORANGE NJ QUADRANGLE MAP, DATED 2016
SITE COORDINATES: E (X) 565,196.85 N (Y) 781,171.89
CONTOUR INTERVAL : 20 FT. NAVD 1988
TO CONVERT FROM METERS TO FEET, MULTIPLY BY 3.28

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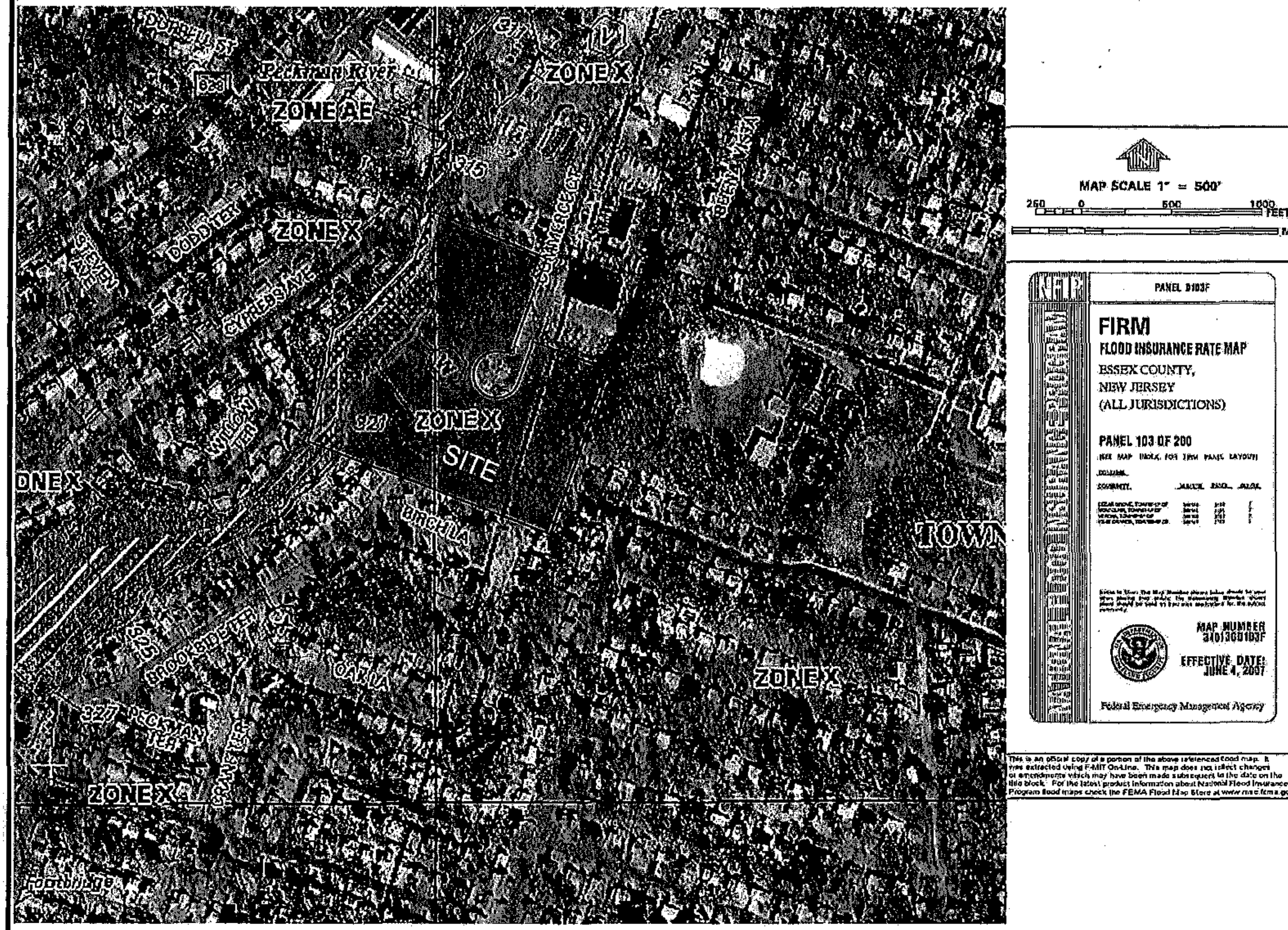
Designer: JMP	
Draftsman: CVF	
Checked By: JAL	
Project No.: 15-0169	
Scale: 1" = 1500'	
Sheet:	Fig. No.2



FEMA FLOOD INSURANCE RATE MAP

PREPARED FOR

FORSONS PARTNERS, LLC

LOT 3.01 BLOCK 1201
TOWNSHIP OF VERONA
ESSEX COUNTY NEW JERSEY

N

Designer: JMP	
Draftsman: CVF	
Checked By: JAL	
Project No.: 16-0169	
Scale: 1" : 500'	
Sheet:	Fig. No.3

REFERENCES:
PORTION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP, ESSEX COUNTY, CONTAINING FAIRFIELD TOWNSHIP.
MAP No. 34013C0103F: EFFECTIVE DATE JUNE 4, 2007.

PETRY
ENGINEERING, LLC
DIVISION OF CONSUMER AFFAIRS LICENSE NUMBER 24GA28030800
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NATIONAL WETLANDS INVENTORY MAP (N.W.I.)

N

PREPARED FOR

FORSONS PARTNERS, LLC

LOT 3.01 BLOCK 1201
TOWNSHIP OF VERONA
ESSEX COUNTY NEW JERSEY

REFERENCES:
PORTIONS OF THE VERONA, N.J. WETLANDS INVENTORY (N.W.I.) MAP

LEGEND / ABBREVIATIONS
(SEE MAP)

PETRY ENGINEERING, LLC
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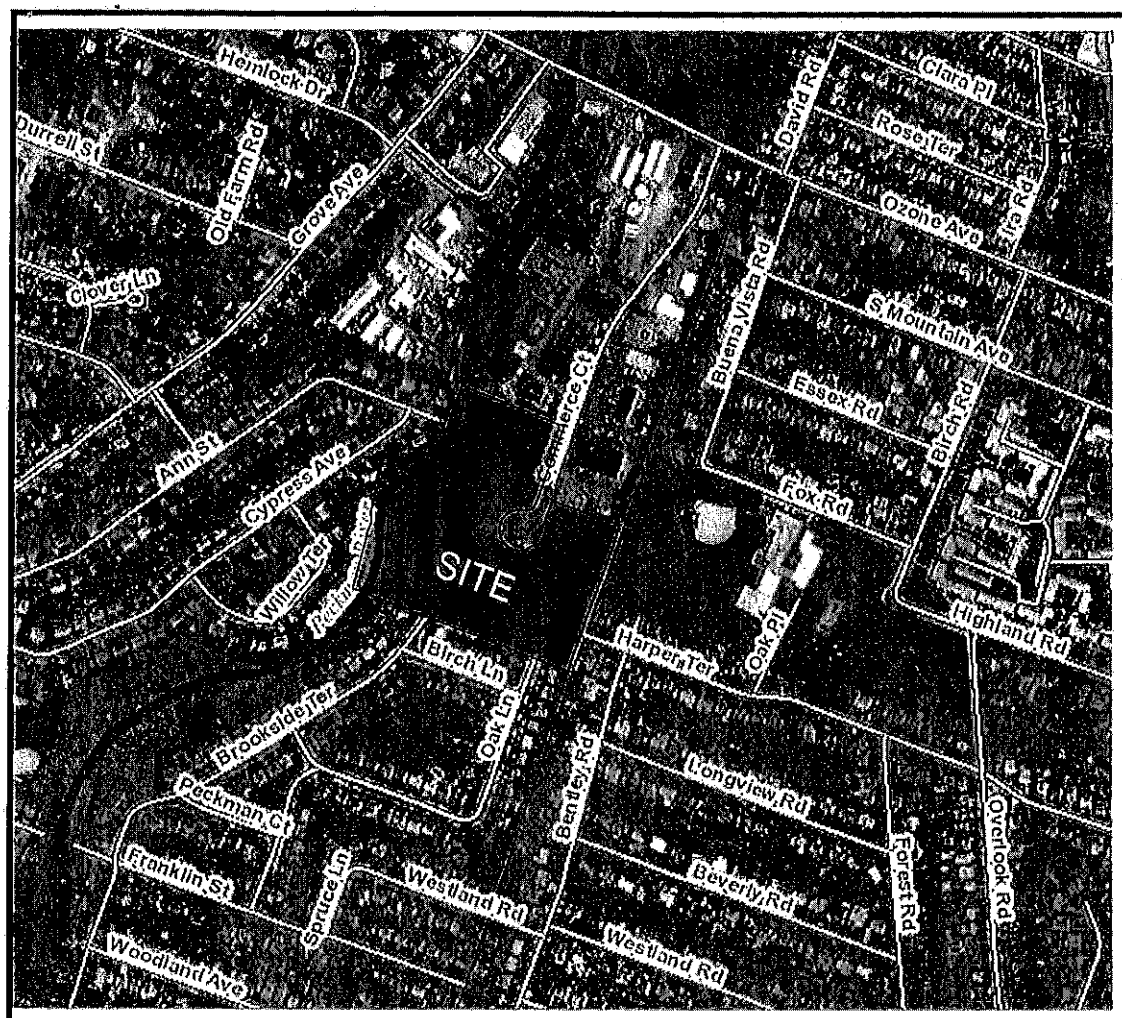
Designer: JMP
Draftsman: CVF
Checked By: JAL
Project No.: 17-0014
Scale: 1"=300'
Sheet:
Fig. No.4A



LEGEND

NJ-GeoWeb Data

- Roads NJ (Centerlines) (1:50000 to 1:5000 scale)
- Municipalities
- Counties
- MidAtlantic States Boundary

Applications/NJGW_Land

- Upper Wetlands Boundary
- Wetlands (2012)

Applications/NJGW_Water

Streams

- Coastline

FTYPE_DESCRIPTION

- Stream/River
- Artificial Path
- Connector
- Canal/Ditch
- Pipeline
- Category One Waters

Surface Water Quality Classification

- DRBC-Zone-1C

CATEGORY

- DRBC-Zone-1D
- DRBC-Zone-1E
- DRBC-Zone-2
- DRBC-Zone-3

NJ-GEOWEB FRESHWATERS WETLANDS MAP

N

PREPARED FOR

FORSONS PARTNERS, LLC

LOT 3.01 BLOCK 1201
TOWNSHIP OF VERONA
ESSEX COUNTY NEW JERSEY

REFERENCES:
NJ-GEOWEB SHOWING NJDEP FRESHWATER WETLANDS (2012) ACTIVE LAYER

PETRY ENGINEERING, LLC
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Designer: JMP	
Draftsman: CVF	
Checked By: JAL	
Project No.: 16-0169	
Scale: N.T.S.	
Sheet:	Fig. No.4B

Map Unit Legend

Essex County, New Jersey (NJ013)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BogBc	Boonton loam, 0 to 8 percent slopes, extremely stony	11.7	41.5%
BogCc	Boonton loam, 8 to 15 percent slopes, extremely stony	1.4	5.0%
BouB	Boonton - Urban land, Boonton substratum complex, 0 to 8 percent slopes	6.9	24.3%
KneB	Knickerbocker fine sandy loam, 3 to 8 percent slopes	1.8	6.4%
PecuuB	Peckmantown - Urban land, Peckmantown substratum complex, 0 to 8 percent slopes	3.0	10.7%
UcdAl	Udifluvents, 0 to 3 percent slopes, frequently flooded	2.1	7.5%
UdbonB	Udorthents, Boonton substratum, 0 to 8 percent slopes	1.3	4.6%
Totals for Area of Interest		28.2	100.0%

USDA - NRCS WEB SOIL SURVEY

N

PREPARED FOR

FORSONS PARTNERS, LLC

LOT 3.01 BLOCK 1201
TOWNSHIP OF VERONA
ESSEX COUNTY NEW JERSEY

REFERENCES:
USDA, NRCS WEBSOIL SURVEY FOR ESSEX COUNTY, JULY 2017.

PETRY ENGINEERING, LLC
DIVISION OF CONSUMER AFFAIRS LICENSE NUMBER 24GA28003900
185 PASSAIC AVENUE • FAIRFIELD • NEW JERSEY • 07004
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Designer: JMP	
Draftsman: CVF	
Checked By: JAL	
Project No.: 16-0169	
Scale: 1 :300'	
Sheet:	Fig. No.5

CHRISTOPHER A. VANDER FLIET, M.S.

WETLAND DELINEATION CERTIFICATION & ENGINEER

Christopher A. Vander Fliet

Date: 8/31/2017

APPENDIX

WETLAND DELINEATION DATA FORMS

WA

Data Forms

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-1
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No _____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No _____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Acer rubrum	FAC	Trees	11.		Woody Vines
2. Betula lenta	FACU		12.		
3.			13.		
4.			14.		
5.		Saplings	15.		
6.			16. Osmunda cinnamomea	FACW	Herbs
7.			17. Symplocarpus foetidus	OBL	
8. Lindera benzoin	FACW	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 80
Is the hydrophytic vegetation criterion met? Yes ✓ No _____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No _____ Undetermined _____
Is the soil a Histosol? Yes _____ No ✓ Histic epipedon present? Yes _____ No ✓
Is the soil: Mottled? Yes _____ No _____ Gleyed? Yes _____ No ✓
Matrix Color: 10 YR 3/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: _____
Is the hydric soil criterion met? Yes ✓ No _____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes _____ No ✓ Surface water depth: _____
Is the soil saturated? Yes _____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ No _____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No _____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet **Date:** 07/12/2017
Project/Site: Verona/ Commerce Ct. **State:** New Jersey **County:** Essex
Applicant/Owner: Forsons Partners, L.L.C. **Plant Community #/Name:** WA-2
Note: **If a more detailed site description is necessary, use the back of data form or a field notebook.**

Do normal environmental conditions exist at the plant community?
Yes ✓ **No** _____ **(If no, explain on back)**
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ **No** _____ **(If yes, explain on back)** Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Acer rubrum	FAC	Trees	11.			Woody Vines
2.	Fraxinus Americana	FACU		12.			
3.	Ulmus Americana	FACW		13.			
4.				14.			
5.			Saplings	15.			
6.				16.	Thelypteris noveboracensis	FAC	Herbs
7.				17.	Onoclea sensibilis	FACW	
8.	Lindera benzoin	FACW	Shrubs	18.	Symplocarpus foetidus	OBL	
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 85.7
Is the hydrophytic vegetation criterion met? Yes ✓ **No** _____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded **Subgroup:**[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ **No** _____ **Undetermined** _____
Is the soil a Histosol? Yes _____ **No** ✓ **Histic epipedon present? Yes** _____ **No** ✓
Is the soil: Mottled? Yes ✓ **No** _____ **Gleyed? Yes** _____ **No** ✓
Matrix Color: 10 yr 3/2 **Mottle Colors:** 7.5 YR 4/4
Other hydric soil indicators: _____
Is the hydric soil criterion met? Yes ✓ **No** _____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes _____ **No** ✓ **Surface water depth:** _____
Is the soil saturated? Yes _____ **No** ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ **No** _____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ **No** _____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-3
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Acer rubrum	FAC	Trees	11.		Woody Vines
2. Fagas grandifolia	FACU		12.		
3. Ulmus Americana	FACW		13.		
4.			14.		
5. Carpinus caroliniana	FAC	Saplings	15.		
6. Fagas grandifolia	FACU		16. Symplocarpus foetidus	OBL	Herbs
7.			17.		
8. Lindera benzoin	FACW	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 71.4
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No ____ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 10 yr 3/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: ____
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C, Plant Community #/Name: WA-3U
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Fraxinus Americana	FACU	Trees	11.		Woody Vines
2. Fagas grandifolia	FACU		12.		
3. Betula lenta	FACU		13.		
4.			14.		
5. Fagas grandifolia	FACU	Saplings	15.		
6.			16. Aster divaricatus	FACU	Herbs
7.			17.		
8.		Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 0
Is the hydrophytic vegetation criterion met? Yes ____ No ✓
Rationale: <50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: BogBc Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ____ No ✓ Gleyed? Yes ____ No ✓
Matrix Color: 10 yr 4/3 Mottle Colors: ____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes ____ No ✓
Rationale: Higher matrix chroma, no evidence of seasonal inundation and/or saturation.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
None
Is the wetland hydrology criterion met? Yes ____ No ✓
Rationale: No evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ____ No ✓
Rationale for jurisdictional decision: Plot/points do not meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet **Date:** 07/12/2017
Project/Site: Verona/ Commerce Ct. **State:** New Jersey **County:** Essex
Applicant/Owner: Forsons Partners, L.L.C. **Plant Community #/Name:** WA-3W
Note: **If a more detailed site description is necessary, use the back of data form or a field notebook.**

Do normal environmental conditions exist at the plant community?
Yes ✓ **No** _____ **(If no, explain on back)**
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ **No** _____ **(If yes, explain on back)** Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping, Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Acer rubrum	FAC	Trees	11.		Woody Vines
2. Fraxinus Americana	FACU		12.		
3. Ulmus Americana	FACW		13.		
4.			14.		
5. Carpinus caroliniana	FAC	Saplings	15.		
6. Fagas grandifolia	FACU		16. Symplocarpus foetidus	OBL	Herbs
7.			17.		
8. Lindera benzoin	FACW	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 71.4
Is the hydrophytic vegetation criterion met? Yes ✓ **No** _____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded **Subgroup:**[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ **No** _____ **Undetermined** _____
Is the soil a Histosol? Yes _____ **No** ✓ **Histic epipedon present? Yes** _____ **No** ✓
Is the soil: Mottled? Yes ✓ **No** _____ **Gleyed? Yes** _____ **No** ✓
Matrix Color: 10 yr 3/2 **Mottle Colors:** 7.5 YR 4/3
Other hydric soil indicators: _____
Is the hydric soil criterion met? Yes ✓ **No** _____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes _____ **No** ✓ **Surface water depth:** _____
Is the soil saturated? Yes _____ **No** ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ **No** _____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ **No** _____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-4
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Acer rubrum	FAC	Trees	11.		Woody Vines
2.			12.		
3.			13.		
4.			14.		
5. Acer rubrum	FAC	Saplings	15.		
6.			16. Osmunda cinnamomea	OBL	Herbs
7.			17. Aster divaricatus	FACU	
8. Lindera benzoin	FACW	Shrubs	18.		
9. Vaccinium corymbosum	FACW		19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 83.3
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No ____ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 3/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: ____
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Filet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-5
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Acer rubrum	FAC	Trees	11.		Woody Vines
2. Fagas grandifolia	FACU		12.		
3.			13.		
4.			14.		
5. Acer rubrum	FAC	Saplings	15.		
6. Fagas grandifolia	FACU		16. Symplocarpus foetidus	OBL	Herbs
7.			17.		
8. Lindera benzoin	FACW	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 66.7
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No ____ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 3/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: ____
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-6
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Acer rubrum	FAC	Trees	11.	Lonicera japonica	FAC	Woody Vines
2.	Fagas grandifolia	FACU		12.	Parthenocissus quinquefolia	FACU	
3.				13.			
4.				14.			
5.			Saplings	15.			
6.				16.	Symplocarpus foetidus	OBL	Herbs
7.				17.			
8.	Viburnum dentatum	FAC	Shrubs	18.			
9.	Rosa multiflora	FACU		19.			
10.	Lindera benzoin	FACW		20.			

Percent of dominant species that are OBL, FACW, and/or FAC 62.5
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 3/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: ____
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet **Date:** 07/12/2017
Project/Site: Verona/ Commerce Ct. **State:** New Jersey **County:** Essex
Applicant/Owner: Forsons Partners, L.L.C. **Plant Community #/Name:** WA-6U
Note: **If a more detailed site description is necessary, use the back of data form or a field notebook.**

Do normal environmental conditions exist at the plant community?
Yes ✓ **No** _____ **(If no, explain on back)**
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ **No** _____ **(If yes, explain on back)** Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Fagas grandifolia	FACU	Trees	11.	Lonicera japonica	FAC	Woody Vines
2.	Acer rubrum	FAC		12.			
3.	Liriodendron tulipifera	FACU		13.			
4.				14.			
5.	Liriodendron tulipifera	FACU	Saplings	15.			
6.	Fraxinus Americana	FACU		16.	Aster divaricatus	FACU	Herbs
7.				17.			
8.	Lindera benzoin	FACW	Shrubs	18.			
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 37.5
Is the hydrophytic vegetation criterion met? Yes _____ **No** ✓
Rationale: <50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: BogBo Boonton loam, 0-8% slopes, extremely stony **Subgroup:**[2] Oxyaquic
Is the soil on the hydric soils list? Yes _____ **No** ✓ **Undetermined** _____
Is the soil a Histosol? Yes _____ **No** ✓ **Histic epipedon present? Yes** _____ **No** ✓
Is the soil: Mottled? Yes _____ **No** ✓ **Gleyed? Yes** _____ **No** ✓
Matrix Color: 7.5 YR 4/4 **Mottle Colors:** _____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes _____ **No** ✓
Rationale: Higher matrix chroma, no evidence of seasonal inundation and/or saturation.

HYDROLOGY

Is the ground surface inundated? Yes _____ **No** ✓ **Surface water depth:** _____
Is the soil saturated? Yes _____ **No** ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
None
Is the wetland hydrology criterion met? Yes _____ **No** ✓
Rationale: No evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes _____ **No** ✓
Rationale for jurisdictional decision: Plot/points do not meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-6W
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Acer rubrum	FAC	Trees	11.	Parthenocissus quinquefolia	FACU	Woody Vines
2.	Fraxinus Americana	FACU		12.	Toxicodenron radicans	FAC	
3.				13.			
4.				14.			
5.	Acer rubrum	FAC	Saplings	15.			
6.	Fagas grandifolia	FACU		16.	Symplocarpus foetidus	OBL	Herbs
7.				17.			
8.			Shrubs	18.			
9.	Lindera benzoin	FACW		19.			
10.	Viburnum dentatum	FAC		20.			

Percent of dominant species that are OBL, FACW, and/or FAC 66.7
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 3/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: ____
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet **Date:** 07/12/2017
Project/Site: Verona/ Commerce Ct. **State:** New Jersey **County:** Essex
Applicant/Owner: Forsons Partners, L.L.C. **Plant Community #/Name:** WA-7
Note: **If a more detailed site description is necessary, use the back of data form or a field notebook.**

Do normal environmental conditions exist at the plant community?
Yes ✓ **No** ____ **(If no, explain on back)**
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ **No** ____ **(If yes, explain on back)** Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Acer rubrum	FAC	Trees	11.		Woody Vines
2.			12.		
3.			13.		
4.			14.		
5. Fagas grandifolia	FACU	Saplings	15.		
6.			16. Symplocarpus foetidus	OBL	Herbs
7.			17.		
8. Lindera benzoin	FACW	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 75
Is the hydrophytic vegetation criterion met? **Yes** ✓ **No** ____
Rationale: >50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded **Subgroup:**[2] Udifluvents
Is the soil on the hydric soils list? **Yes** ✓ **No** ____ **Undetermined** ____
Is the soil a Histosol? **Yes** ____ **No** ✓ **Histic epipedon present?** **Yes** ____ **No** ✓
Is the soil: Mottled? **Yes** ✓ **No** ____ **Gleyed?** **Yes** ____ **No** ✓
Matrix Color: 10 YR 5/2 **Mottle Colors:** 7.5 YR 4/4
Other hydric soil indicators: ____
Is the hydric soil criterion met? **Yes** ✓ **No** ____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? **Yes** ____ **No** ✓ **Surface water depth:** ____
Is the soil saturated? **Yes** ____ **No** ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? **Yes** ✓ **No** ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? **Yes** ✓ **No** ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Filet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-8
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Acer rubrum	FAC	Trees	11.		Woody Vines
2. Fraxinus Americana	FACU		12.		
3.			13.		
4.			14.		
5. Fagas grandifolia	FACU	Saplings	15.		
6.			16. Symplocarpus foetidus	OBL	Herbs
7.			17. Onoclea sensibills	FACW	
8. Lindera benzoin	FACW	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 66.7
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No ____ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 3/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: ____
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carried debris
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-9
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Acer rubrum	FAC	Trees	11.		Woody Vines
2.			12.		
3.			13.		
4.			14.		
5. Acer rubrum	FAC	Saplings	15.		
6. Fagas grandifolia	FACU		16. Symplocarpus foetidus	OBL	Herbs
7.			17. Alliaria petiolate	FACU	
8. Lindera benzoin	FACW	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 66.7
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No ____ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 3/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: ____
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fllet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-9U
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Fraxinus Americana	FACU	Trees	11. Parthenocissus quinquefolia	FACU	Woody Vines
2. Acer rubrum	FAC		12.		
3.			13.		
4.			14.		
5. Prunus serotina	FACU	Saplings	15.		
6.			16. Alliaria petiolate	FACU	Herbs
7.			17. Pachysandra terminalis	UPL	
8. Rosa multiflora	FACU	Shrubs	18.		
9. Lindera benzoin	FACW		19.		
10. Philadelphus coronarius	UPL		20.		

Percent of dominant species that are OBL, FACW, and/or FAC 22.2
Is the hydrophytic vegetation criterion met? Yes ____ No ✓
Rationale: <50% of the dominant species of each community type have and Indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: BogBo Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ____ No ✓ Gleyed? Yes ____ No ✓
Matrix Color: 7.5 YR 4/3 Mottle Colors: ____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes ____ No ✓
Rationale: Higher matrix chroma, no evidence of seasonal inundation and/or saturation.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
None
Is the wetland hydrology criterion met? Yes ____ No ✓
Rationale: No evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ____ No ✓
Rationale for jurisdictional decision: Plot/points do not meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-9W
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Acer rubrum	FAC	Trees	11.		Woody Vines
2.			12.		
3.			13.		
4.			14.		
5. Acer rubrum	FAC	Saplings	15.		
6. Fagas grandifolia	FACU		16. Symplocarpus foetidus	OBL	Herbs
7.			17.		
8. Lindera benzoin	FACW	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 80
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No ____ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 3/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: ____
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-10
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Acer rubrum	FAC	Trees	11.			Woody Vines
2.	Fraxinus Americana	FACU		12.			
3.				13.			
4.				14.			
5.	Fagas grandifolia	FACU	Saplings	15.			
6.				16.	Onoclea sensibilis	FACW	Herbs
7.				17.	Symplocarpus foetidus	OBL	
8.	Lindera benzoin	FACW	Shrubs	18.			
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 66.7
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No ____ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 4/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: ____
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-11
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No _____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No _____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Acer rubrum	FAC	Trees	11.			Woody Vines
2.				12.			
3.				13.			
4.				14.			
5.	Acer rubrum	FAC	Saplings	15.			
6.	Fagas grandifolia	FACU		16.	Symplocarpus foetidus	OBL	Herbs
7.				17.	Onoclea sensibilis	FACW	
8.	Lindera benzoin	FACW	Shrubs	18.			
9.	Rubus idaeus	FAC		19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 85.7
Is the hydrophytic vegetation criterion met? Yes ✓ No _____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No _____ Undetermined _____
Is the soil a Histosol? Yes _____ No ✓ Histic epipedon present? Yes _____ No ✓
Is the soil: Mottled? Yes ✓ No _____ Gleyed? Yes _____ No ✓
Matrix Color: 10 YR 4/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: _____
Is the hydric soil criterion met? Yes ✓ No _____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes _____ No ✓ Surface water depth: _____
Is the soil saturated? Yes _____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ No _____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No _____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-12
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No _____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No _____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Acer rubrum	FAC	Trees	11.	-		Woody Vines
2.	Fagas grandifolia	FACU		12.			
3.				13.			
4.				14.			
5.	-		Saplings	15.			
6.				16.	Onoclea sensibilis	FACW	Herbs
7.				17.	Thelypteris noveboracensis	FAC	
8.	Lindera benzoin	FACW	Shrubs	18.	Symplocarpus foetidus	OBL	
9.	Hamamelis virginiana	FAC		19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 85.7
Is the hydrophytic vegetation criterion met? Yes ✓ No _____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No _____ Undetermined _____
Is the soil a Histosol? Yes _____ No ✓ Histic epipedon present? Yes _____ No ✓
Is the soil: Mottled? Yes ✓ No _____ Gleyed? Yes _____ No ✓
Matrix Color: 10 YR 3/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: _____
Is the hydric soil criterion met? Yes ✓ No _____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes _____ No ✓ Surface water depth: _____
Is the soil saturated? Yes _____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ No _____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No _____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-12U
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No _____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No _____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Fagas grandifolia	FACU	Trees	11.		Woody Vines
2.			12.		
3.			13.		
4.			14.		
5. Fagas grandifolia	FACU	Saplings	15.		
6.			16. Alliaria petiolate	FACU	Herbs
7.			17.		
8.		Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 0
Is the hydrophytic vegetation criterion met? Yes _____ No ✓
Rationale: <50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: BogBo Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic
Is the soil on the hydric soils list? Yes _____ No ✓ Undetermined _____
Is the soil a Histosol? Yes _____ No ✓ Histic epipedon present? Yes _____ No ✓
Is the soil: Mottled? Yes _____ No ✓ Gleyed? Yes _____ No ✓
Matrix Color: 10 YR 5/3 Mottle Colors: _____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes _____ No ✓
Rationale: Higher matrix chroma, no evidence of seasonal inundation and/or saturation.

HYDROLOGY

Is the ground surface inundated? Yes _____ No ✓ Surface water depth: _____
Is the soil saturated? Yes _____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
None
Is the wetland hydrology criterion met? Yes _____ No ✓
Rationale: No evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes _____ No ✓
Rationale for jurisdictional decision: Plot/points do not meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-13
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Acer rubrum	FAC	Trees	11.			Woody Vines
2.	Fagas grandifolia	FACU		12.			
3.				13.			
4.				14.			
5.	Carpinus caroliniana	FAC	Saplings	15.			
6.	Acer rubrum	FAC		16.	Symplocarpus foetidus	OBL	Herbs
7.				17.	Aster divaricatus	FACU	
8.	Lindera benzoin	FACW	Shrubs	18.			
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 71.4
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No ____ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 2/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: ____
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated?. Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-14
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Acer rubrum	FAC	Trees	11.		Woody Vines
2. Fraxinus Americana	FACU		12.		
3.			13.		
4.			14.		
5. Carpinus caroliniana	FAC	Saplings	15.		
6. Betula populifolia	FAC		16. Polygonum cuspidatum	FACU	Herbs
7.			17.		
8. Lindera benzoin	FACW	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 66.7
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No ____ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 2/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: ____
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-15
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No _____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No _____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Acer rubrum	FAC	Trees	11.		Woody Vines
2. Fraxinus americana	FACU		12.		
3.			13.		
4.			14.		
5. Carpinus caroliniana	FAC	Saplings	15.		
6. Betula populifolia	FAC		16. Polygonum cuspidatum	FACU	Herbs
7.			17.		
8. Lindera benzoin	FACW	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 66.7
Is the hydrophytic vegetation criterion met? Yes ✓ No _____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No _____ Undetermined _____
Is the soil a Histosol? Yes _____ No ✓ Histic epipedon present? Yes _____ No ✓
Is the soil: Mottled? Yes ✓ No _____ Gleyed? Yes _____ No ✓
Matrix Color: 10 YR 3/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: _____
Is the hydric soil criterion met? Yes ✓ No _____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes _____ No ✓ Surface water depth: _____
Is the soil saturated? Yes _____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carried debris
Is the wetland hydrology criterion met? Yes ✓ No _____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No _____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-16
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No _____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No _____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Acer rubrum	FAC	Trees	11.		Woody Vines
2. Fraxinus Americana	FACU		12.		
3. Fagas grandifolia	FACU		13.		
4.			14.		
5. Carpinus caroliniana	FAC	Saplings	15.		
6.			16. Symplocarpus foetidus	OBL	Herbs
7.			17. Spinulosa dryopteris	FAC	
8. Lindera benzoin	FACW	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 71.4
Is the hydrophytic vegetation criterion met? Yes ✓ No _____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No _____ Undetermined _____
Is the soil a Histosol? Yes _____ No ✓ Histic epipedon present? Yes _____ No ✓
Is the soil: Mottled? Yes ✓ No _____ Gleyed? Yes _____ No ✓
Matrix Color: 10 YR 2/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: _____
Is the hydric soil criterion met? Yes ✓ No _____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes _____ No ✓ Surface water depth: _____
Is the soil saturated? Yes _____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ No _____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No _____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-17
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Acer rubrum	FAC	Trees	11.			Woody Vines
2.	Fagas grandifolia	FACU		12.			
3.				13.			
4.				14.			
5.	Acer rubrum	FAC	Saplings	15.			
6.	Fagas grandifolia	FACU		16.	Symplocarpus foetidus	OBL	Herbs
7.				17.			
8.	Nyssa sylvatica	FAC	Shrubs	18.			
9.	Lindera benzoin	FACW		19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 71.4
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No ____ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 3/2 Mottle Colors: 7.5 YR 4/4, 7.5 YR 5/1
Other hydric soil indicators: Manganese masses
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet **Date:** 07/12/2017
Project/Site: Verona/ Commerce Ct. **State:** New Jersey **County:** Essex
Applicant/Owner: Forsons Partners, L.L.C. **Plant Community #/Name:** WA-18
Note: **If a more detailed site description is necessary, use the back of data form or a field notebook.**

Do normal environmental conditions exist at the plant community?
Yes ✓ **No** _____ **(If no, explain on back)**
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ **No** _____ **(If yes, explain on back)** Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Acer rubrum	FAC	Trees	11. -		Woody Vines
2. Fraxinus Americana	FAC		12.		
3. Betula lenta	FACU		13.		
4.			14.		
5. Fagas grandifolia	FACU	Saplings	15.		
6.			16. Symplocarpus foetidus	OBL	Herbs
7.			17. Onoclea sensibilis	FACW	
8. Lindera benzoin	FACW	Shrubs	18.		
9. Rosa multiflora	FACU		19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 50
Is the hydrophytic vegetation criterion met? **Yes** ✓ **No** _____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded **Subgroup:**[2] Udifluvents
Is the soil on the hydric soils list? **Yes** ✓ **No** _____ **Undetermined** _____
Is the soil a Histosol? **Yes** _____ **No** ✓ **Histic epipedon present?** **Yes** _____ **No** ✓
Is the soil: Mottled? **Yes** ✓ **No** _____ **Gleyed?** **Yes** _____ **No** ✓
Matrix Color: 10 YR 3/2 **Mottle Colors:** 7.5 YR 4/4
Other hydric soil indicators:
Is the hydric soil criterion met? **Yes** ✓ **No** _____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? **Yes** _____ **No** ✓ **Surface water depth:** _____
Is the soil saturated? **Yes** _____ **No** ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? **Yes** ✓ **No** _____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? **Yes** ✓ **No** _____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet **Date:** 07/12/2017
Project/Site: Verona/ Commerce Ct. **State:** New Jersey **County:** Essex
Applicant/Owner: Forsons Partners, L.L.C. **Plant Community #/Name:** WA-19
Note: **If a more detailed site description is necessary, use the back of data form or a field notebook.**

Do normal environmental conditions exist at the plant community?
Yes ✓ **No** _____ **(If no, explain on back)**
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ **No** _____ **(If yes, explain on back)** Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Acer rubrum	FAC	Trees	11.	Smilax rotunifolia	FAC	Woody Vines
2.	Fraxinus Americana	FACU		12.			
3.	Black tupelo	FAC		13.			
4.				14.			
5.	Fagas grandifolia	FACU	Saplings	15.			
6.				16.	Symplocarpus foetidus	OBL	Herbs
7.				17.			
8.	Lindera benzoin	FACW	Shrubs	18.			
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 71.4
Is the hydrophytic vegetation criterion met? **Yes** ✓ **No** _____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded **Subgroup:**[2] Udifluvents
Is the soil on the hydric soils list? **Yes** ✓ **No** _____ **Undetermined** _____
Is the soil a Histosol? **Yes** _____ **No** ✓ **Histic epipedon present?** **Yes** _____ **No** ✓
Is the soil: Mottled? **Yes** ✓ **No** _____ **Gleyed?** **Yes** _____ **No** ✓
Matrix Color: 10 YR 3/2 **Mottle Colors:** 7.5 YR 4/4
Other hydric soil indicators:
Is the hydric soil criterion met? **Yes** ✓ **No** _____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? **Yes** _____ **No** ✓ **Surface water depth:**
Is the soil saturated? **Yes** _____ **No** ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? **Yes** ✓ **No** _____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? **Yes** ✓ **No** _____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-19U
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Acer rubrum	FAC	Trees	11.		Woody Vines
2. Quercus rubra	FACU		12.		
3. Quercus alba	FACU		13.		
4.			14.		
5. Nyssa sylvatica	FAC	Saplings	15.		
6. Fagas grandifolia	FACU		16. Onoclea sensibilis	FACW	Herbs
7.			17. Alliaria petiolate	FACU	
8. Lindera benzoin	FACW	Shrubs	18. Spinulosa dryopteris	FACU	
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 44.4
Is the hydrophytic vegetation criterion met? Yes ____ No ✓
Rationale: <50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: BogBo Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ____ No ✓ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 5/3 Mottle Colors: ____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes ____ No ✓
Rationale: Higher matrix chroma, no evidence of seasonal inundation and/or saturation.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
None
Is the wetland hydrology criterion met? Yes ____ No ✓
Rationale: No evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ____ No ✓
Rationale for jurisdictional decision: Plot/points do not meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verone/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-19W
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Acer rubrum	FAC	Trees	11. Smilax rotunifolia	FAC	Woody Vines
2. Fraxinus Americana	FACU		12.		
3. Black tupelo	FAC		13.		
4.			14.		
5. Fraxinus Americana	FACU	Saplings	15.		
6.			16. Symplocarpus foetidus	OBL	Herbs
7.			17.		
8. Lindera benzoin	FACW	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 71.4
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥50% of the dominant species of each community type have and Indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No ____ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 3/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: ____
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria.

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet **Date:** 07/12/2017
Project/Site: Verona/ Commerce Ct. **State:** New Jersey **County:** Essex
Applicant/Owner: Forsons Partners, L.L.C. **Plant Community #/Name:** WA-20
Note: **If a more detailed site description is necessary, use the back of data form or a field notebook.**

Do normal environmental conditions exist at the plant community?
Yes ✓ **No** _____ **(If no, explain on back)**
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ **No** _____ **(If yes, explain on back)** Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Fraxinus Americana	FACU	Trees	11.	Vitis labrusca	FACU	Woody Vines
2.	Acer rubrum	FAC		12.			
3.				13.			
4.				14.			
5.	Acer rubrum	FAC	Saplings	15.			
6.	Nyssa sylvatica	FAC		16.	Symplocarpus foetidus	OBL	Herbs
7.				17.			
8.	Lindera benzoin	FACW	Shrubs	18.			
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 71.4
Is the hydrophytic vegetation criterion met? Yes ✓ **No** _____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded **Subgroup:**[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ **No** _____ **Undetermined** _____
Is the soil a Histosol? Yes _____ **No** ✓ **Histic epipedon present? Yes** _____ **No** ✓
Is the soil: Mottled? Yes ✓ **No** _____ **Gleyed? Yes** _____ **No** ✓
Matrix Color: 7.5 YR 4/3 **Mottle Colors:** 7.5 YR 5/6
Other hydric soil indicators: _____
Is the hydric soil criterion met? Yes ✓ **No** _____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes _____ **No** ✓ **Surface water depth:** _____
Is the soil saturated? Yes _____ **No** ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ **No** _____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ **No** _____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-21
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No _____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No _____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Fraxinus Americana	FACU	Trees	11. Vitis labrusca	FACU	Woody Vines
2. Acer rubrum	FAC		12.		
3.			13.		
4.			14.		
5. Fagas grandifolia	FACU	Saplings	15.		
6.			16. Symplocarpus foetidus	OBL	Herbs
7.			17. Onoclea sensibilis	FACW	
8. Lindera benzoin	FACW	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC _____
Is the hydrophytic vegetation criterion met? Yes ✓ No _____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No _____ Undetermined _____
Is the soil a Histosol? Yes _____ No ✓ Histic epipedon present? Yes _____ No ✓
Is the soil: Mottled? Yes ✓ No _____ Gleyed? Yes _____ No ✓
Matrix Color: 7.5 YR 4/3 Mottle Colors: 7.5 Yr 5.6
Other hydric soil indicators: _____
Is the hydric soil criterion met? Yes ✓ No _____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes _____ No ✓ Surface water depth: _____
Is the soil saturated? Yes _____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ No _____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No _____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-22
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No _____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No _____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Acer rubrum	FAC	Trees	11.		Woody Vines
2. Fraxinus Americana	FACU		12.		
3.			13.		
4.			14.		
5. Fagas grandifolia	FACU	Saplings	15.		
6. Acer rubrum	FAC		16. Symplocarpus foetidus	OBL	Herbs
7.			17. Aster divaricatus	FACU	
8. Rhododendron viscosum	OBL	Shrubs	18. Microsteglum vimineum	FAC	
9. Lindera benzoin	FACW		19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 66.7
Is the hydrophytic vegetation criterion met? Yes ✓ No _____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No _____ Undetermined _____
Is the soil a Histosol? Yes _____ No ✓ Histic epipedon present? Yes _____ No ✓
Is the soil: Mottled? Yes ✓ No _____ Gleyed? Yes _____ No ✓
Matrix Color: 10 YR 4/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: _____
Is the hydric soil criterion met? Yes ✓ No _____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes _____ No ✓ Surface water depth: _____
Is the soil saturated? Yes _____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ No _____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No _____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-23
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Acer rubrum	FAC	Trees	11.			Woody Vines
2.	Fraxinus Americana	FACU		12.			
3.				13.			
4.				14.			
5.	Fagas grandifolia	FACU	Saplings	15.			
6.	Acer rubrum	FAC		16.	Symplocarpus foetidus	OBL	Herbs
7.				17.	Alliaria petiolate	FACU	
8.	Lindera benzoin	FACW	Shrubs	18.	Aster divaricatus	FACU	
9.	Rhododendron viscosum	OBL		19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 55.6
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No ____ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 4/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: ____
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-24
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Fraxinus Americana	FACU	Trees	11.		Woody Vines
2. Acer rubrum	FAC		12.		
3.			13.		
4.			14.		
5. Fagas grandifolia	FACU	Saplings	15.		
6.			16. Thelypteris noveboracensis	FAC	Herbs
7.			17. Polygonum persicaria	FACW	
8. Lindera benzoin	FACW	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 66.7
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No ____ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ____ No ✓ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 3/2 Mottle Colors: ____
Other hydric soil indicators: ____
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water-carried debris
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-24U
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No _____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No _____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Fraxinus Americana	FACU	Trees	11.		Woody Vines
2. Fagas grandifolia	FACU		12.		
3.			13.		
4.			14.		
5. Fagas grandifolia	FACU	Saplings	15.		
6.			16. Aster divaricatus	FACU	Herbs
7.			17. Thelypteris noveboracensis	FAC	
8. Lindera benzoin	FACW	Shrubs	18. Alliaria petiolate	FACU	
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 28.6
Is the hydrophytic vegetation criterion met? Yes _____ No ✓
Rationale: <50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: BogBc Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic
Is the soil on the hydric soils list? Yes _____ No ✓ Undetermined _____
Is the soil a Histosol? Yes _____ No ✓ Histic epipedon present? Yes _____ No ✓
Is the soil: Mottled? Yes _____ No ✓ Gleyed? Yes _____ No ✓
Matrix Color: 7.5 YR 4/3 Mottle Colors: _____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes _____ No ✓
Rationale: Higher matrix chroma, no evidence of seasonal inundation and/or saturation.

HYDROLOGY

Is the ground surface inundated? Yes _____ No ✓ Surface water depth: _____
Is the soil saturated? Yes _____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
None
Is the wetland hydrology criterion met? Yes _____ No ✓
Rationale: No evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes _____ No ✓
Rationale for jurisdictional decision: Plot/points do not meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WA-25
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/ spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Acer rubrum	FAC	Trees	11.		Woody Vines
2. Fraxinus Americana	FACU		12.		
3.			13.		
4.			14.		
5.		Saplings	15.		
6.			16. Pilea pumila	FACW	Herbs
7.			17. Polygonum cuspidatum	FACU	
8. Lindera benzoin	FACW	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 60
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and/or FAC.

SOILS

Series/phase: UcdAt Udifluvents 0-3% slopes frequently flooded Subgroup:[2] Udifluvents
Is the soil on the hydric soils list? Yes ✓ No ____ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 3/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: ____
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: Lower matrix chroma, redox concentrations, marginal somewhat poorly drained soil inclusion.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, scour lines and water carrried debris
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

WB

Data Forms

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Filet Date: 07/13/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WB-1
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Salix babylonica	FACW	Trees	11.			Woody Vines
2.	Populus deltoides	FAC		12.			
3.	Malus baccata	UPL		13.			
4.				14.			
5.	Salix discolor	FACW	Saplings	15.			
6.	Pyrus calleryana	UPL		16.	Asclepias incarnata	FACW	Herbs
7.				17.	Apocynum cannabinum	FACU	
8.	Cornus amomum	FACW	Shrubs	18.	Microstegium vimineum	FAC	
9.	Elaeagnus umbellata	UPL		19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 60
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥ 50% of the dominant species of each community type have and Indicator (RIND) status of OBL, FACW, and or/ FAC

SOILS

Series/phase: BogBc-Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 7.5 YR 4/3 Mottle Colors: 7.5 YR 4/6
Other hydric soil indicators: Dark soil color
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: lower matrix chroma, redox concentrations Marginal somewhat poorly drained/ poorly drained soil inclusions (Haledon variant)

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ✓ No ____
Depth to free-standing water in pit/soil probe hole: ≈2-4"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, water carried debris, scour lines, dark soil color and soft wet soil
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/13/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WB-2
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Salix babylonica	FACW	Trees	11.	-		Woody Vines
2.	Quercus palustris	FACW		12.			
3.				13.			
4.				14.			
5.	-		Saplings	15.			
6.				16.	Apocynum cannabinum	FACU	Herbs
7.				17.	Panicum rigidulum	FACW	
8.	Elaeagnus umbellata	UPL	Shrubs	18.	Scirpus atrovirens	OBL	
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 66.7
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥ 50% of the dominant species of each community type have and Indicator (RIND) status of OBL, FACW, and or/ FAC

SOILS

Series/phase: BogBe-Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 7.5 YR4/3 Mottle Colors: 7.5 YR 5/6
Other hydric soil indicators: Dark soil color
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: lower matrix chroma, redox concentrations Marginal somewhat poorly drained/ poorly drained soil inclusions (Haledon variant)

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ✓ No ____
Depth to free-standing water in pit/soil probe hole: ≈2-4"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, water carrried debris, scour lines, dark soil color, and soft wet soil
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/13/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WB-2U
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Salix babylonica	FACW	Trees	11.	-		Woody Vines
2.	Quercus palustris	FACW		12.			
3.				13.			
4.				14.			
5.			Saplings	15.			
6.				16.	Apocynum cannabinum	FACU	Herbs
7.				17.	Dancus carota	UPL	
8.	Elaeagnus umbellata	UPL	Shrubs	18.	Lespedeza Virginica	UPL	
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 33.3
Is the hydrophytic vegetation criterion met? Yes ____ No ✓
Rationale: < 50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and or/ FAC

SOILS

Series/phase: BcgBc-Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ____ No ✓ Gleyed? Yes ____ No ✓
Matrix Color: 7.5 YR 4/4 Mottle Colors: ____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: Higher matrix chroma, No evidence of seasonal inundation and/or saturation.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: > 18"
List other field evidence of surface inundation or soil saturation.
None
Is the wetland hydrology criterion met? Yes ____ No ✓
Rationale: No evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ____ No ✓
Rationale for jurisdictional decision: Plot/points do not meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/13/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WB-2W
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Salix babylonica	FACW	Trees	11. -		Woody Vines
2. Quercus palustris	FACW		12.		
3.			13.		
4.			14.		
5. -		Saplings	15.		
6.			16. Apocynum cannabinum	FACU	Herbs
7.			17. Panicum rigidulum	FACW	
8. Elaeagnus umbellata	UPL	Shrubs	18. Scirpus atrovirens	OBL	
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 66.7
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥ 50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and or/ FAC

SOILS

Series/phase: BogBc-Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ____ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 4/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: Dark soil color
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: lower matrix chroma, redox concentrations Marginal somewhat poorly drained/ poorly drained soil inclusions (Haledon variant)

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ✓ No ____
Depth to free-standing water in pit/soil probe hole: ≈2-4"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, water carrried debris, scour lines, dark soil color, and soft wet soil
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet **Date:** 07/13/2017
Project/Site: Verona/ Commerce Ct. **State:** New Jersey **County:** Essex
Applicant/Owner: Forsons Partners, L.L.C. **Plant Community #/Name:** WB-3
Note: **If a more detailed site description is necessary, use the back of data form or a field notebook.**

Do normal environmental conditions exist at the plant community?
Yes ✓ **No** _____ **(If no, explain on back)**
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ **No** _____ **(If yes, explain on back)** Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Platanus x hispanica	UPL	Trees	11.		Woody Vines
2. Paulonia Tomentosa	UPL		12.		
3.			13.		
4.			14.		
5. Acer rubrum	FAC	Saplings	15.		
6.			16. Polygonum virginianum	FAC	Herbs
7.			17. Microstegium vimineum	FAC	
8. Salix discolor	FACW	Shrubs	18. Panicum rigidulum	FACW	
9. Cornus foemina	FAC		19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 75
Is the hydrophytic vegetation criterion met? Yes ✓ **No** _____
Rationale: ≥ 50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and or/ FAC

SOILS

Series/phase: BogBc-Boonton loam, 0-8% slopes, extremely stony **Subgroup:**[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes _____ **No** ✓ **Undetermined** _____
Is the soil a Histosol? Yes _____ **No** ✓ **Histic epipedon present? Yes** _____ **No** ✓
Is the soil: Mottled? Yes _____ **No** ✓ **Gleyed? Yes** _____ **No** ✓
Matrix Color: 7.5 YR 4/3 **Mottle Colors:** _____
Other hydric soil indicators: Dark soil color
Is the hydric soil criterion met? Yes ✓ **No** _____
Rationale: lower matrix chroma, redox concentrations Marginal somewhat poorly drained/ poorly drained soil inclusions (Haledon variant)

HYDROLOGY

Is the ground surface inundated? Yes _____ **No** ✓ **Surface water depth:** _____
Is the soil saturated? Yes ✓ **No** _____
Depth to free-standing water in pit/soil probe hole: ≈2-4"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, water carrried debris, scour lines, dark soil color, and soft wet soil
Is the wetland hydrology criterion met? Yes ✓ **No** _____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ **No** _____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/13/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WB-4
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Populus deltoides	FAC	Trees	11.	Toxicodenron radicans	FAC	Woody Vines
2.				12.			
3.				13.			
4.				14.			
5.	Malus baccata	UPL	Saplings	15.			
6.				16.	Phragmites australis	FACW	Herbs
7.				17.	Panicum rigidulum	FACW	
8.	Quercus palustris	FACW	Shrubs	18.	Polygonum virginianum	FAC	
9.	Rosa multiflora	FACU		19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 62.5
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥ 50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and or/ FAC

SOILS

Series/phase: BogBc-Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 7.5 YR 4/3 Mottle Colors: 7.5 YR 4/5
Other hydric soil indicators: Dark soil color
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: lower matrix chroma, redox concentrations Marginal somewhat poorly drained/ poorly drained soil inclusions (Haledon variant)

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ✓ No ____
Depth to free-standing water in pit/soil probe hole: ≈2-4"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, water carrried debris, scour lines, dark soil color, and soft wet soil
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/13/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WB-5
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Acer rubrum	FAC	Trees	11. Toxicodenron radicans	FAC	Woody Vines
2.			12.		
3.			13.		
4.			14.		
5. Fraxinus pennsylvanica	FACW	Saplings	15.		
6. Acer rubrum	FAC		16. Phragmites australis	FACW	Herbs
7.			17. Panicum rigidulum	FACW	
8.		Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 100
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥ 50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and or/ FAC

SOILS

Series/phase: BogBe-Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 7.5 YR 4/2 Mottle Colors: 7.5 YR 4/6
Other hydric soil indicators: Dark soil color
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: lower matrix chroma, redox concentrations Marginal somewhat poorly drained/ poorly drained soil inclusions (Haledon variant)

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ✓ No ____
Depth to free-standing water in pit/soil probe hole: ≈2-4"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, water carrried debris, scour lines, dark soil color and soft wet soil
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/13/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WB-5W
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No _____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No _____ (If yes, explain on back) Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Acer rubrum	FAC	Trees	11.	Toxicodenron radicans	FAC	Woody Vines
2.				12.			
3.				13.			
4.				14.			
5.	Fraxinus pennsylvanica	FACW	Saplings	15.			
6.	Acer rubrum	FAC		16.	Phragmites australis	FACW	Herbs
7.				17.	Lespedeza Virginica	FACW	
8.	Rosa multiflora	FACU	Shrubs	18.	Panicum rigidulum	FACW	
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 87.5
Is the hydrophytic vegetation criterion met? Yes ✓ No _____
Rationale: ≥ 50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and or/ FAC

SOILS

Series/phase: BogBc-Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes _____ No ✓ Undetermined _____
Is the soil a Histosol? Yes _____ No ✓ Histic epipedon present? Yes _____ No ✓
Is the soil: Mottled? Yes ✓ No _____ Gleyed? Yes _____ No ✓
Matrix Color: 7.5 YR 4/2 Mottle Colors: 7.5 YR 4/6
Other hydric soil indicators: Dark soil color
Is the hydric soil criterion met? Yes ✓ No _____
Rationale: lower matrix chroma, redox concentrations Marginal somewhat poorly drained/ poorly drained soil inclusions (Haledon variant)

HYDROLOGY

Is the ground surface inundated? Yes _____ No ✓ Surface water depth: _____
Is the soil saturated? Yes ✓ No _____
Depth to free-standing water in pit/soil probe hole: ≈2-4"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, water carrried debris, scour lines, dark soil color and soft wet soil
Is the wetland hydrology criterion met? Yes ✓ No _____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No _____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/13/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WB-5U
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Acer rubrum	FAC	Trees	11. Toxicodenron radicans	FAC	Woody Vines
2. Platanus x hispanica	UPL		12.		
3.			13.		
4.			14.		
5. Fraxinus pennsylvanica	FACW	Saplings	15.		
6. Pyrus Baccata	UPL		16. Solidago canadensis	FACU	Herbs
7.			17. Alliaria petiolate	FACU	
8. Rosa multiflora	FACU	Shrubs	18. Panicum rigidulum	FACW-	
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 44.4
Is the hydrophytic vegetation criterion met? Yes ____ No ✓
Rationale: < 50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and or/ FAC

SOILS

Series/phase: BogBc-Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ____ No ✓ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 4/3 Mottle Colors: ____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: Higher matrix chroma, No evidence of seasonal inundation and/or saturation.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: > 18"
List other field evidence of surface inundation or soil saturation.
None
Is the wetland hydrology criterion met? Yes ____ No ✓
Rationale: No evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ____ No ✓
Rationale for jurisdictional decision: Plot/points do not meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/13/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WB-6
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Acer rubrum	FAC	Trees	11.	Toxicodenron radicans	FAC	Woody Vines
2.	Fraxinus pennsylvanica	FACW		12.	Parthenocissus quinquefolia	FACU	
3.				13.			
4.				14.			
5.	Fraxinus pennsylvanica	FACW	Saplings	15.			
6.				16.	Phragmites australis	FACW	Herbs
7.				17.	Microstegium vimineum	FAC	
8.	Rosa multiflora	FACU	Shrubs	18.			
9.	Cornus foemina	FAC		19.			
10.	Elaeagnus umbellata	UPL		20.			

Percent of dominant species that are OBL, FACW, and/or FAC 70
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥ 50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and or/ FAC

SOILS

Series/phase: BogBc-Boonton loam, 0-6% slopes, extremely stony Subgroup:[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 7.5 YR 4/2 Mottle Colors: 7.5 YR 4/6
Other hydric soil indicators: Dark soil color
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: lower matrix chroma, redox concentrations Marginal somewhat poorly drained/ poorly drained soil inclusions (Haledon variant)

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ✓ No ____
Depth to free-standing water in pit/soil probe hole: ≈2-4"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, water carrried debris, scour lines, dark soil color, and soft wet soil
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/13/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WB-7
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Acer rubrum	FAC	Trees	11.	Parthenocissus quinquefolia	FACU	Woody Vines
2.	Liquidambar styraciflua	FAC		12.			
3.				13.			
4.				14.			
5.	Acer rubrum	FAC	Saplings	15.			
6.				16.	Phragmites australis	FACW	Herbs
7.				17.	Microstegium vimineum	FAC	
8.			Shrubs	18.	Panicum rigidulum	FACW	
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 85.7
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥ 50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and or/ FAC

SOILS

Series/phase: BogBc-Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 7.5 YR 4/3 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: Dark soil color
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: lower matrix chroma, redox concentrations Marginal somewhat poorly drained/ poorly drained soil inclusions (Haledon variant)

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ✓ No ____
Depth to free-standing water in pit/soil probe hole: ≈2-4"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, water carrried debris, scour lines, dark soil color and soft wet soil
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet **Date:** 07/13/2017
Project/Site: Verona/ Commerce Ct. **State:** New Jersey **County:** Essex
Applicant/Owner: Forsons Partners, L.L.C. **Plant Community #/Name:** WB-8
Note: **If a more detailed site description is necessary, use the back of data form or a field notebook.**

Do normal environmental conditions exist at the plant community?
Yes ✓ **No** _____ **(If no, explain on back)**
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ **No** _____ **(If yes, explain on back)** Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Acer rubrum	FAC	Trees	11.	-		Woody Vines
2.	Liriodendron tulipifera	FACU		12.			
3.	Platanus x hispanica	UPL		13.			
4.				14.			
5.	Acer rubrum	FAC	Saplings	15.			
6.	Malus baccata	UPL		16.	Phragmites australis	FACW	Herbs
7.				17.	Microstegium vimineum	FAC	
8.	Fraxinus pennsylvanica	FACW	Shrubs	18.			
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 62.5
Is the hydrophytic vegetation criterion met? Yes ✓ **No** _____
Rationale: ≥ 50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and or/ FAC

SOILS

Series/phase: BogBe-Boonton loam, 0-8% slopes, extremely stony **Subgroup:**[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes _____ **No** ✓ **Undetermined** _____
Is the soil a Histosol? Yes _____ **No** ✓ **Histic epipedon present? Yes** _____ **No** ✓
Is the soil: Mottled? Yes _____ **No** _____ **Gleyed? Yes** _____ **No** ✓
Matrix Color: 10 YR 4/3 **Mottle Colors:** 7.5 YR 4/4
Other hydric soil indicators: Dark soil color
Is the hydric soil criterion met? Yes ✓ **No** _____
Rationale: lower matrix chroma, redox concentrations Marginal somewhat poorly drained/ poorly drained soil inclusions (Haledon variant)

HYDROLOGY

Is the ground surface inundated? Yes _____ **No** ✓ **Surface water depth:** _____
Is the soil saturated? Yes ✓ **No** _____
Depth to free-standing water in pit/soil probe hole: ≈2-4"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, water carrried debris, scour lines, dark soil color, and soft wet soil
Is the wetland hydrology criterion met? Yes ✓ **No** _____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ **No** _____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/13/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WB-8U
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Liriodendron tulipifera	FACU	Trees	11.	Parthenocissus quinquefolia	FACU	Woody Vines
2.	Platanus x hispanica	UPL		12.	Toxicodenron radicans	FAC	
3.	Acer rubrum	FAC		13.			
4.				14.			
5.	Betula lenta	FACU	Saplings	15.			
6.	Malus baccata	UPL		16.	Alliaria petiolate	FACU	Herbs
7.				17.	Microsteglum vimineum	FAC	
8.	Rosa multiflora	FACU	Shrubs	18.			
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 30
Is the hydrophytic vegetation criterion met? Yes ____ No ✓
Rationale: < 50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and or/ FAC

SOILS

Series/phase: BogBc-Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ____ No ✓ Gleyed? Yes ____ No ✓
Matrix Color: 7.5 YR 4/3 Mottle Colors: ____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: Higher matrix chroma, No evidence of seasonal inundation and/or saturation.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: > 18"
List other field evidence of surface inundation or soil saturation.
None
Is the wetland hydrology criterion met? Yes ____ No ✓
Rationale: No evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ____ No ✓
Rationale for jurisdictional decision: Plot/points do not meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Filet Date: 07/13/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WB-8W
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Acer rubrum	FAC	Trees	11.	Toxicodenron radicans	FAC	Woody Vines
2.	Liriodendron tulipifera	FACU		12.			
3.				13.			
4.				14.			
5.	Acer rubrum	FAC	Saplings	15.			
6.				16.	Microstegium vimineum	FAC	Herbs
7.				17.	Phragmites australis	FACW	
8.	Fraxinus pennsylvanica	FACW	Shrubs	18.	Panicum rigidulum	FACW	
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 87.5
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥ 50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and or/ FAC

SOILS

Series/phase: BogBc-Boonton loam, 0-6% slopes, extremely stony Subgroup:[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 4/2 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: Dark soil color
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: lower matrix chroma, redox concentrations Marginal somewhat poorly drained/ poorly drained soil inclusions (Haledon variant)

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ✓ No ____
Depth to free-standing water in pit/soil probe hole: ≈2-4"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, water carrried debris, scour lines, dark soil color, and soft wet soil
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet **Date:** 07/13/2017
Project/Site: Verona/ Commerce Ct. **State:** New Jersey **County:** Essex
Applicant/Owner: Forsons Partners, L.L.C. **Plant Community #/Name:** WB-9
Note: **If a more detailed site description is necessary, use the back of data form or a field notebook.**

Do normal environmental conditions exist at the plant community?
Yes ✓ **No** _____ **(If no, explain on back)**
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ **No** _____ **(If yes, explain on back)** Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Liquidambar styraciflua	FAC,	Trees	11. Parthenocissus quinquefolia	FACU	Woody Vines
2. Platanus x hispanica	UPL		12.		
3.			13.		
4.			14.		
5. Malus baccata	UPL	Saplings	15.		
6. Acer rubrum	FAC		16. Phragmites australis	FACW	Herbs
7.			17. Polygonum cuspidatum	FACU	
8. Fraxinus pennsylvanica	FACW	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 50
Is the hydrophytic vegetation criterion met? **Yes** ✓ **No** _____
Rationale: ≥ 50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and or/ FAC

SOILS

Series/phase: BogBo-Boonton loam, 0-8% slopes, extremely stony **Subgroup:**[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? **Yes** _____ **No** ✓ **Undetermined** _____
Is the soil a Histosol? **Yes** _____ **No** ✓ **Histic epipedon present?** **Yes** _____ **No** ✓
Is the soil: Mottled? **Yes** ✓ **No** _____ **Gleyed?** **Yes** _____ **No** ✓
Matrix Color: 10 YR 4/3 **Mottle Colors:** 7.5 YR 5/6
Other hydric soil indicators: Dark soil color
Is the hydric soil criterion met? **Yes** ✓ **No** _____
Rationale: lower matrix chroma, redox concentrations Marginal somewhat poorly drained/ poorly drained soil inclusions (Haledon variant)

HYDROLOGY

Is the ground surface inundated? **Yes** _____ **No** ✓ **Surface water depth:** _____
Is the soil saturated? **Yes** ✓ **No** _____
Depth to free-standing water in pit/soil probe hole: ≈2-4"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, water carrried debris, scour lines, dark soil color, and soft wet soil
Is the wetland hydrology criterion met? **Yes** ✓ **No** _____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? **Yes** ✓ **No** _____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/13/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WB-10
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Liquidambar styraciflua	FAC	Trees	11.	Parthenocissus quinquefolia	FACU	Woody Vines
2.				12.	Toxicodenron radicans	FAC	
3.				13.			
4.				14.			
5.	Acer rubrum	FAC	Saplings	15.			
6.				16.	Phragmites australis	FACW	Herbs
7.				17.	Arisaema triphyllum	FACW	
8.	Elaeagnus umbellata	UPL	Shrubs	18.	Panicum rigidulum	FACW	
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 75
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥ 50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and or/ FAC

SOILS

Series/phase: BogBc-Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 7.5 YR 4/4 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: Dark soil color
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: lower matrix chroma, redox concentrations Marginal somewhat poorly drained/ poorly drained soil inclusions (Haledon variant)

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ✓ No ____
Depth to free-standing water in pit/soil probe hole: ≈2-4"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, water carrried debris, scour lines, dark soil color, and soft wet soil
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet **Date:** 07/13/2017
Project/Site: Verona/ Commerce Ct. **State:** New Jersey **County:** Essex
Applicant/Owner: Forsons Partners, L.L.C. **Plant Community #/Name:** WB-11
***Note:* If a more detailed site description is necessary, use the back of data form or a field notebook.**

Do normal environmental conditions exist at the plant community?
Yes ✓ **No** ____ **(If no, explain on back)**
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ **No** ____ **(If yes, explain on back)** Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Liquidambar styraciflua	FAC	Trees	11. Toxicodenron radicans	FAC	Woody Vines
2.			12. Parthenocissus quinquefolia	FACU	
3.			13.		
4.			14.		
5. Acer rubrum	FAC	Saplings	15.		
6. Malus baccata	UPL		16. Arisaema triphyllum	FACW	Herbs
7.			17. Microstegium vimineum	FAC	
8. Elaeagnus umbellata	UPL	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 62.5
Is the hydrophytic vegetation criterion met? Yes ✓ **No** ____
Rationale: ≥ 50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and or/ FA

SOILS

Series/phase: BogBo-Boonton loam, 0-8% slopes, extremely stony **Subgroup:**[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes ____ **No** ✓ **Undetermined** ____
Is the soil a Histosol? Yes ____ **No** ✓ **Histic epipedon present? Yes** ____ **No** ✓
Is the soil: Mottled? Yes ✓ **No** ____ **Gleyed? Yes** ____ **No** ✓
Matrix Color: 7.5 YR 4/4 **Mottle Colors:** 7.5 YR 4/4
Other hydric soil indicators: Dark soil color
Is the hydric soil criterion met? Yes ✓ **No** ____
Rationale: lower matrix chroma, redox concentrations Marginal somewhat poorly drained/ poorly drained soil inclusions (Haledon variant)

HYDROLOGY

Is the ground surface inundated? Yes ____ **No** ✓ **Surface water depth:** ____
Is the soil saturated? Yes ✓ **No** ____
Depth to free-standing water in pit/soil probe hole: ≈2-4"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, water carrried debris, scour lines, dark soil color and soft wet soil
Is the wetland hydrology criterion met? Yes ✓ **No** ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ **No** ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/13/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WB-11U
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Liquidambar styraciflua	FAC	Trees	11. Parthenocissus quinquefolia	FACU	Woody Vines
2.			12.		
3.			13.		
4.			14.		
5. Acer rubrum	FAC	Saplings	15.		
6. Malus baccata	UPL		16. Agrimonia gryposepala	FACU	Herbs
7.			17. Microstegium vimineum	FAC	
8. Elaeagnus umbellata	UPL	Shrubs	18. Alliaria petiolate	FACU	
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 37.5
Is the hydrophytic vegetation criterion met? Yes ____ No ✓
Rationale: < 50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and or/ FAC

SOILS

Series/phase: BogBo-Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ____ No ✓ Gleyed? Yes ____ No ✓
Matrix Color: 7.5 YR 4/4 Mottle Colors: ____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: Higher matrix chroma, No evidence of seasonal inundation and/or saturation.

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: > 18"
List other field evidence of surface inundation or soil saturation.
None
Is the wetland hydrology criterion met? Yes ____ No ✓
Rationale: No evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ____ No ✓
Rationale for jurisdictional decision: Plot/points do not meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fllet Date: 07/13/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WB-11W
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Liquidambar styraciflua	FAC	Trees	11.	Parthenocissus quinquefolia	FACU	Woody Vines
2.				12.	Toxicodenron radicans	FAC	
3.				13.			
4.				14.			
5.	Acer rubrum	FAC	Saplings	15.			
6.	Malus baccata	UPL		16.	Arisaema triphyllum	FACW	Herbs
7.				17.	Microsteglum vimineum	FAC	
8.	Salix discolor	FACW	Shrubs	18.			
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 75
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥ 50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and or/ FAC

SOILS

Series/phase: BogBc-Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 7.5 YR 4/4 Mottle Colors: 7.5 YR 4/4
Other hydric soil indicators: Dark soil color
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: lower matrix chroma, redox concentrations Marginal somewhat poorly drained/ poorly drained soil inclusions (Haledon variant)

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ✓ No ____
Depth to free-standing water in pit/soil probe hole: ≈2-4"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, water carrried debris, scour lines, dark soil color, and soft wet soil
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/13/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WB-12
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Ulmus Americana	FACW	Trees	11.		Woody Vines
2. Malus baccata	UPL		12.		
3. Platanus x hispanica	UPL		13.		
4.			14.		
5. Quercus palustris	FACW	Saplings	15.		
6. Fraxinus pennsylvanica	FACW		16. Microstegium vimineum	FAC	Herbs
7.			17. Liriope Muscari	UPL	
8.		Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 57.1
Is the hydrophytic vegetation criterion met? Yes ✓ No ____
Rationale: ≥ 50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and or/ FA

SOILS

Series/phase: BogBc-Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ✓ No ____ Gleyed? Yes ____ No ✓
Matrix Color: 7.5 YR 4/4 Mottle Colors: 7.5 YR 4/6
Other hydric soil indicators: Dark soil color
Is the hydric soil criterion met? Yes ✓ No ____
Rationale: lower matrix chroma, redox concentrations Marginal somewhat poorly drained/ poorly drained soil inclusions (Haledon variant)

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ✓ No ____
Depth to free-standing water in pit/soil probe hole: ≈2-4"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, water carried debris, scour lines, dark soil color, and soft wet soil
Is the wetland hydrology criterion met? Yes ✓ No ____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No ____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/13/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WB-13
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No _____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No _____ (If yes, explain on back) Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. -		Trees	11. -		Woody Vines
2.			12.		
3.			13.		
4.			14.		
5. Quercus palustris	FACW	Saplings	15.		
6.			16. Microstegium vimineum	FAC	Herbs
7.			17. Asclepias incarnata	FACW	
8. Elaeagnus umbellata	UPL	Shrubs	18. Apocynum cannabinum	FACU	
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 60
Is the hydrophytic vegetation criterion met? Yes ✓ No _____
Rationale: ≥ 60% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and or/ FAC

SOILS

Series/phase: BogBc-Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes _____ No ✓ Undetermined _____
Is the soil a Histosol? Yes _____ No ✓ Histic epipedon present? Yes _____ No ✓
Is the soil: Mottled? Yes _____ No ✓ Gleyed? Yes _____ No ✓
Matrix Color: 7.5 YR 4/3 Mottle Colors: _____
Other hydric soil indicators: Dark soil color
Is the hydric soil criterion met? Yes ✓ No _____
Rationale: lower matrix chroma, redox concentrations Marginal somewhat poorly drained/ poorly drained soil inclusions (Haledon variant)

HYDROLOGY

Is the ground surface inundated? Yes _____ No ✓ Surface water depth: _____
Is the soil saturated? Yes ✓ No _____
Depth to free-standing water in pit/soil probe hole: ≈2-4"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, water carrried debris, scour lines, dark soil color and soft wet soil
Is the wetland hydrology criterion met? Yes ✓ No _____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No _____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fllet Date: 07/13/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: WB-14
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No _____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No _____ (If yes, explain on back) Disturbances from the Verona Township leave dump and poor stormwater management measures from adjacent residential properties.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Populus deltoides	FAC	Trees	11.			Woody Vines
2.				12.			
3.				13.			
4.				14.			
5.			Saplings	15.			
6.				16.	Asclepias incarnata	FACW	Herbs
7.				17.	Scirpus atrovirens	OBL	
8.	Elaeagnus umbellata	UPL	Shrubs	18.	Microsteglum vimineum	FAC	
9.	Rosa multiflora	FACU		19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 66.7
Is the hydrophytic vegetation criterion met? Yes ✓ No _____
Rationale: ≥ 50% of the dominant species of each community type have and indicator (RIND) status of OBL, FACW, and or/ FAC

SOILS

Series/phase: BogBc-Boonton loam, 0-8% slopes, extremely stony Subgroup:[2] Oxyaquic Fragiudalfs
Is the soil on the hydric soils list? Yes _____ No ✓ Undetermined _____
Is the soil a Histosol? Yes _____ No ✓ Histic epipedon present? Yes _____ No ✓
Is the soil: Mottled? Yes _____ No ✓ Gleyed? Yes _____ No ✓
Matrix Color: 7.5 YR 4/3 Mottle Colors: _____
Other hydric soil indicators: Dark soil color
Is the hydric soil criterion met? Yes ✓ No _____
Rationale: lower matrix chroma, redox concentrations Marginal somewhat poorly drained/ poorly drained soil inclusions (Haledon variant)

HYDROLOGY

Is the ground surface inundated? Yes _____ No ✓ Surface water depth: _____
Is the soil saturated? Yes ✓ No _____
Depth to free-standing water in pit/soil probe hole: ≈2-4"
List other field evidence of surface inundation or soil saturation.
Water stained leaves, exposed tree roots, water carrried debris, scour lines, dark soil color and soft wet soil
Is the wetland hydrology criterion met? Yes ✓ No _____
Rationale: Evidence of seasonal inundation and/or saturation

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ✓ No _____
Rationale for jurisdictional decision: Plot/points meet hydrophytic vegetation hydric soil and/or wetland criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

OW

Data Forms

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: OW-1
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Fraxinus Americana	FACU	Trees	11.		Woody Vines
2. Acer rubrum	FAC		12.		
3. Acer Platanoides	UPL		13.		
4.			14.		
5. Acer Platanoides	UPL	Saplings	15.		
6. Prunus serotina	FACU		16. Alliaria petiolate	FACU	Herbs
7.			17. Polygonum cuspidatum	FACU	
8. Rosa multiflora	FACU	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 12.5
Is the hydrophytic vegetation criterion met? Yes ____ No ✓
Rationale: <50 % of the dominant species of each community type have an indicator (RIND) status of OBL, FACW, and/or FAC

SOILS

Series/phase: KneB-Knickerbocker fine, sandy loam 3-8% slopes Subgroup:[2] Typic Dystrudepts
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ____ No ✓ Gleyed? Yes ____ No ✓
Matrix Color: 7.5 YR 5/3 Mottle Colors: ____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes ____ No ✓
Rationale: Higher Chroma Matrix

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Plot/points set at higher water mark of stream channel, some evidence of scour and silt/debris lines
Is the wetland hydrology criterion met? Yes ____ No ✓
Rationale: Flood plain area above top of stream banks of Peckman River only occasionaly flooded

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ____ No ✓ (State open Waters)
Rationale for jurisdictional decision: Plot/ Points do not meet hydrophytic vegetation, hydric soil, and/or wetland hydrology criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: OW-2
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/spoil piles from utility line construction.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Fraxinus Americana	FACU	Trees	11.	Smilax rotunifolia	FAC	Woody Vines
2.	Quercus alba	FACU		12.			
3.	Acer rubrum	FAC		13.			
4.				14.			
5.	Prunus serotina	FACU	Saplings	15.			
6.	Acer Platanoides	UPL		16.	Alliaria petiolate	FACU	Herbs
7.				17.			
8.	Hamamelis virginiana	FAC	Shrubs	18.			
9.	Rosa multiflora	FACU		19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 33.3
Is the hydrophytic vegetation criterion met? Yes ____ No ✓
Rationale: <50 % of the dominant species of each community type have an indicator (RIND) status of OBL, FACW, and/or FAC

SOILS

Series/phase: KneB-Knickerbocker fine, sandy loam 3-8% slopes Subgroup:[2] Typic Dystrudepts
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ____ No ✓ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 4/3 Mottle Colors: ____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes ____ No ✓
Rationale: Higher Chroma Matrix

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Plot/points set at higher water mark of stream channel, some evidence of scour and silt/debris lines.
Is the wetland hydrology criterion met? Yes ____ No ✓
Rationale: Flood plain area above top of stream banks of Peckman River only occasionaly flooded

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ____ No ✓ (State open Waters)
Rationale for jurisdictional decision: Plot/ Points do not meet hydrophytic vegetation, hydric soil, and/or wetland hydrology criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet **Date:** 07/12/2017
Project/Site: Verona/ Commerce Ct. **State:** New Jersey **County:** Essex
Applicant/Owner: Forsons Partners, L.L.C. **Plant Community #/Name:** OW-3
Note: **If a more detailed site description is necessary, use the back of data form or a field notebook.**

Do normal environmental conditions exist at the plant community?
Yes ✓ **No** _____ **(If no, explain on back)**
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ **No** _____ **(If yes, explain on back)** Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Fraxinus Americana	FACU	Trees	11. Celastrus orbiculatus	UPL	Woody Vines
2. Acer rubrum	FAC		12.		
3. Fagas grandifolia	FACU		13.		
4.			14.		
5. Fagas grandifolia	FACU	Saplings	15.		
6. Prunus serotina	FACU		16.		Herbs
7.			17.		
8.		Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 16.7
Is the hydrophytic vegetation criterion met? Yes _____ **No** ✓
Rationale: <50 % of the dominant species of each community type have an indicator (RIND) status of OBL, FACW, and/or FAC

SOILS

Series/phase: KneB-Knickerbocker fine, sandy loam 3-8% slopes **Subgroup:**[2] Typic Dystrudepts
Is the soil on the hydric soils list? Yes _____ **No** ✓ **Undetermined** _____
Is the soil a Histosol? Yes _____ **No** ✓ **Histic epipedon present? Yes** _____ **No** ✓
Is the soil: Mottled? Yes _____ **No** ✓ **Gleyed? Yes** _____ **No** ✓
Matrix Color: 10 YR 4/3 **Mottle Colors:** _____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes _____ **No** ✓
Rationale: Higher Chroma Matrix

HYDROLOGY

Is the ground surface inundated? Yes _____ **No** ✓ **Surface water depth:** _____
Is the soil saturated? Yes _____ **No** ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Plot/points set at higher water mark of stream channel, some evidence of scour and silt/debris lines
Is the wetland hydrology criterion met? Yes _____ **No** ✓
Rationale: Flood plain area above top of stream banks of Peckman River only occasionaly flooded

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes _____ **No** ✓ (State open Waters)
Rationale for jurisdictional decision: Plot/ Points do not meet hydrophytic vegetation, hydric soil, and/or wetland hydrology criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: OW-3U
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/spoil piles from utility line construction.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Fraxinus Americana	FACU	Trees	11.	Celastrus orbiculatus	UPL	Woody Vines
2.	Acer rubrum	FAC		12.			
3.	Fagas grandifolia	FACU		13.			
4.				14.			
5.	Fraxinus Americana	FACU	Saplings	15.			
6.	Prunus serotina	FACU		16.	Alliaria petiolate	FACU	Herbs
7.				17.			
8.			Shrubs	18.			
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 14.3
Is the hydrophytic vegetation criterion met? Yes ____ No ✓
Rationale: <50 % of the dominant species of each community type have an Indicator (RIND) status of OBL, FACW, and/or FAC

SOILS

Series/phase: KneB-Knickerbocker fine, sandy loam 3-8% slopes Subgroup:[2] Typic Dystrudepts
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ____ No ✓ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 4/3 Mottle Colors: ____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes ____ No ✓
Rationale: Higher Chroma Matrix

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Plot/points set at higher water mark of stream channel, some evidence of scour and silt/debris lines
Is the wetland hydrology criterion met? Yes ____ No ✓
Rationale: Flood plain area above top of stream banks of Peckman River only occasionaly flooded

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ____ No ✓ (State open Waters)
Rationale for jurisdictional decision: Plot/ Points do not meet hydrophytic vegetation, hydric soil, and/or wetland hydrology criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: OW-4
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/spoil piles from utility line construction.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Fagas grandifolia	FACU	Trees	11.			Woody Vines
2.	Acer rubrum	FAC		12.			
3.	Fraxinus Americana	FACU		13.			
4.				14.			
5.	Fagas grandifolia	FACU	Saplings	15.			
6.				16.			Herbs
7.				17.			
8.			Shrubs	18.			
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 25
Is the hydrophytic vegetation criterion met? Yes ____ No ✓
Rationale: <50 % of the dominant species of each community type have an indicator (RIND) status of OBL, FACW, and/or FAC

SOILS

Series/phase: KneB-Knickerbocker fine, sandy loam 3-8% slopes Subgroup:[2] Typic Dystrudepts
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ____ No ✓ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 4/3 Mottle Colors: ____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes ____ No ✓
Rationale: Higher Chroma Matrix

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Plot/points set at higher water mark of stream channel, some evidence of scour and silt/debris lines
Is the wetland hydrology criterion met? Yes ____ No ✓
Rationale: Flood plain area above top of stream banks of Peckman River only occasionaly flooded

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ____ No ✓ (State open Waters)
Rationale for jurisdictional decision: Plot/ Points do not meet hydrophytic vegetation, hydric soil, and/or wetland hydrology criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: OW-5
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Fraxinus Americana	FACU	Trees	11. -		Woody Vines
2. Acer rubrum	FAC		12.		
3.			13.		
4.			14.		
5. -		Saplings	15.		
6.			16. Alliaria petiolate	FACU	Herbs
7.			17. Polygonum cuspidatum	FACU	
8. Lindera benzoin	FACW	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 40
Is the hydrophytic vegetation criterion met? Yes ____ No ✓
Rationale: <50 % of the dominant species of each community type have an indicator (RIND) status of OBL, FACW, and/or FAC

SOILS

Series/phase: KneB-Knickerbocker fine, sandy loam 3-8% slopes Subgroup:[2] Typic Dystrudepts
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ____ No ✓ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 4/3 Mottle Colors: ____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes ____ No ✓
Rationale: Higher Chroma Matrix

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Plot/points set at higher water mark of stream channel, some evidence of scour and silt/debris lines.
Is the wetland hydrology criterion met? Yes ____ No ✓
Rationale: Flood plain area above top of stream banks of Peckman River only occasionaly flooded

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ____ No ✓ (State open Waters)
Rationale for jurisdictional decision: Plot/ Points do not meet hydrophytic vegetation, hydric soil, and/or wetland hydrology criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: OW-6
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/spoil piles from utility line construction.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Fagas grandifolia	FACU	Trees	11.	-		Woody Vines
2.	Fraxinus Americana	FACU		12.			
3.				13.			
4.				14.			
5.	Fagas grandifolia	FACU	Saplings	15.			
6.				16.	Polygonum cuspidatum	FACU	Herbs
7.				17.			
8.	Rosa multiflora	FACU	Shrubs	18.			
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 0
Is the hydrophytic vegetation criterion met? Yes ____ No ✓
Rationale: <50 % of the dominant species of each community type have an indicator (RIND) status of OBL, FACW, and/or FAC

SOILS

Series/phase: KneB-Knickerbocker fine, sandy loam 3-8% slopes Subgroup:[2] Typic Dystrudepts
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ____ No ✓ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 4/3 Mottle Colors: ____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes ____ No ✓
Rationale: Higher Chroma Matrix

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Plot/points set at higher water mark of stream channel, some evidence of scour and silt/debris lines
Is the wetland hydrology criterion met? Yes ____ No ✓
Rationale: Flood plain area above top of stream banks of Peckman River only occasionaly flooded

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ____ No ✓ (State open Waters)
Rationale for jurisdictional decision: Plot/ Points do not meet hydrophytic vegetation, hydric soil, and/or wetland hydrology criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet **Date:** 07/12/2017
Project/Site: Verona/ Commerce Ct. **State:** New Jersey **County:** Essex
Applicant/Owner: Forsons Partners, L.L.C. **Plant Community #/Name:** OW-7
Note: **If a more detailed site description is necessary, use the back of data form or a field notebook.**

Do normal environmental conditions exist at the plant community?
Yes ✓ **No** _____ **(If no, explain on back)**
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ **No** _____ **(If yes, explain on back)** Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Fraxinus Americana	FACU	Trees	11.		Woody Vines
2. Ulmus Americana	FACW		12.		
3. Fagas grandifolia	FACU		13.		
4.			14.		
5. Fagas grandifolia	FACU	Saplings	15.		
6. Ulmus Americana	FACW		16. Aster divaricatus	FACU	Herbs
7.			17.		
8. Lindera benzoin	FACW	Shrubs	18.		
9. Berberis thunbergii	FACU		19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 37.5
Is the hydrophytic vegetation criterion met? Yes _____ **No** ✓
Rationale: <50 % of the dominant species of each community type have an indicator (RIND) status of OBL, FACW, and/or FAC

SOILS

Series/phase: KneB-Knickerbocker fine, sandy loam 3-8% slopes **Subgroup:**[2] Typic Dystrudepts
Is the soil on the hydric soils list? Yes _____ **No** ✓ **Undetermined** _____
Is the soil a Histosol? Yes _____ **No** ✓ **Histic epipedon present? Yes** _____ **No** ✓
Is the soil: Mottled? Yes _____ **No** ✓ **Gleyed? Yes** _____ **No** ✓
Matrix Color: 10 YR 4/3 **Mottle Colors:** _____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes _____ **No** ✓
Rationale: Higher Chroma Matrix

HYDROLOGY

Is the ground surface inundated? Yes _____ **No** ✓ **Surface water depth:** _____
Is the soil saturated? Yes _____ **No** ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Plot/points set at higher water mark of stream channel, some evidence of scour and silt/debris lines
Is the wetland hydrology criterion met? Yes _____ **No** ✓
Rationale: Flood plain area above top of stream banks of Peckman River only occasionaly flooded

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes _____ **No** ✓ (State open Waters)
Rationale for jurisdictional decision: Plot/ Points do not meet hydrophytic vegetation, hydric soil, and/or wetland hydrology criteria

[1] **This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.**
[2] **Classification according to "Soil Taxonomy."**

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: OW-8
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/spoil piles from utility line construction.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Fagas grandifolia	FACU	Trees	11.	-		Woody Vines
2.	Acer rubrum	FAC		12.			
3.				13.			
4.				14.			
5.	Prunus serotina	FACU	Saplings	15.			
6.				16.	Alliaria petiolate	FACU	Herbs
7.				17.	Aster divaricatus	FACU	
8.	Rosa multiflora	FACU	Shrubs	18.	Polygonum cuspidatum	FACU	
9.	Lindera benzoin	FACW		19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 25
Is the hydrophytic vegetation criterion met? Yes ____ No ✓
Rationale: <50 % of the dominant species of each community type have an indicator (RIND) status of OBL, FACW, and/or FAC

SOILS

Series/phase: KneB-Knickerbocker fine, sandy loam 3-8% slopes Subgroup:[2] Typic Dystrudepts
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ____ No ✓ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 5/3 Mottle Colors: ____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes ____ No ✓
Rationale: Higher Chroma Matrix

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Plot/points set at higher water mark of stream channel, some evidence of scour and silt/debris lines
Is the wetland hydrology criterion met? Yes ____ No ✓
Rationale: Flood plain area above top of stream banks of Peckman River only occasionaly flooded

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ____ No ✓ (State open Waters)
Rationale for jurisdictional decision: Plot/ Points do not meet hydrophytic vegetation, hydric soil, and/or wetland hydrology criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet **Date:** 07/12/2017
Project/Site: Verona/ Commerce Ct. **State:** New Jersey **County:** Essex
Applicant/Owner: Forsons Partners, L.L.C, **Plant Community #/Name:** OW-8U
***Note:* If a more detailed site description is necessary, use the back of data form or a field notebook.**

Do normal environmental conditions exist at the plant community?
Yes ✓ **No** ____ **(If no, explain on back)**
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ **No** ____ **(If yes, explain on back)** Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/spoil piles from utility line construction.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Fraxinus Americana	FACU	Trees	11.	Toxicodenron radicans	FAC	Woody Vines
2.	Acer rubrum	FAC		12.			
3.				13.			
4.				14.			
5.	Acer platanoides	UPL	Saplings	15.			
6.	Fagas grandifolia	FACU		16.	Alliaria petiolate	FACU	Herbs
7.	Acer rubrum	FAC		17.	Aster divaricatus	FACU	
8.	Lindera benzoin	FACW	Shrubs	18.	Uvularia sessilifolia	FACU	
9.	Rosa multiflora	FACU		19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 36.3
Is the hydrophytic vegetation criterion met? Yes ____ **No** ✓
Rationale: <50 % of the dominant species of each community type have an indicator (RIND) status of OBL, FACW, and/or FAC

SOILS

Series/phase: KneB-Knickerbocker fine, sandy loam 3-8% slopes **Subgroup:**[2] Typic Dystrudepts
Is the soil on the hydric soils list? Yes ____ **No** ✓ **Undetermined** ____
Is the soil a Histosol? Yes ____ **No** ✓ **Histic epipedon present? Yes** ____ **No** ✓
Is the soil: Mottled? Yes ____ **No** ✓ **Gleyed? Yes** ____ **No** ✓
Matrix Color: 10 YR 4/3 **Mottle Colors:** ____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes ____ **No** ✓
Rationale: Higher Chroma Matrix

HYDROLOGY

Is the ground surface inundated? Yes ____ **No** ✓ **Surface water depth:** ____
Is the soil saturated? Yes ____ **No** ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Plot/points set at higher water mark of stream channel, some evidence of scour and silt/debris lines
Is the wetland hydrology criterion met? Yes ____ **No** ✓
Rationale: Flood plain area above top of stream banks of Peckman River only occasionaly flooded

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ____ **No** ✓ (State open Waters)
Rationale for jurisdictional decision: Plot/ Points do not meet hydrophytic vegetation, hydric soil, and/or wetland hydrology criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet **Date:** 07/12/2017
Project/Site: Verona/ Commerce Ct. **State:** New Jersey **County:** Essex
Applicant/Owner: Forsons Partners, L.L.C. **Plant Community #/Name:** OW-9
Note: **If a more detailed site description is necessary, use the back of data form or a field notebook.**

Do normal environmental conditions exist at the plant community?
Yes ✓ **No** _____ **(If no, explain on back)**
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ **No** _____ **(If yes, explain on back)** Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/spoil piles from utility line construction.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Fraxinus Americana	FACU	Trees	11.	-		Woody Vines
2.	Acer platanoides	FAC		12.			
3.				13.			
4.				14.			
5.	Fagas grandifolia	FACU	Saplings	15.			
6.	Acer platanoides	FAC		16.	-		Herbs
7.				17.			
8.	Viburnum prunifolium	FACU	Shrubs	18.			
9.	Rosa multiflora	FACU		19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 0
Is the hydrophytic vegetation criterion met? **Yes** _____ **No** ✓
Rationale: <50 % of the dominant species of each community type have an indicator (RIND) status of OBL, FACW, and/or FAC

SOILS

Series/phase: KneB-Knickerbocker fine, sandy loam 3-8% slopes **Subgroup:**[2] Typic Dystrudepts
Is the soil on the hydric soils list? **Yes** _____ **No** ✓ **Undetermined** _____
Is the soil a Histosol? **Yes** _____ **No** ✓ **Histic epipedon present?** **Yes** _____ **No** ✓
Is the soil: Mottled? **Yes** _____ **No** ✓ **Gleyed?** **Yes** _____ **No** ✓
Matrix Color: 10 YR 4/3 **Mottle Colors:** _____
Other hydric soil indicators: None
Is the hydric soil criterion met? **Yes** _____ **No** ✓
Rationale: Higher Chroma Matrix

HYDROLOGY

Is the ground surface inundated? **Yes** _____ **No** ✓ **Surface water depth:** _____
Is the soil saturated? **Yes** _____ **No** ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Plot/points set at higher water mark of stream channel, some evidence of scour and silt/debris lines.
Is the wetland hydrology criterion met? **Yes** _____ **No** ✓
Rationale: Flood plain area above top of stream banks of Peckman River only occasionaly flooded

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? **Yes** _____ **No** ✓ (State open Waters)
Rationale for jurisdictional decision: Plot/ Points do not meet hydrophytic vegetation, hydric soil, and/or wetland hydrology criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet **Date:** 07/12/2017
Project/Site: Verona/ Commerce Ct. **State:** New Jersey **County:** Essex
Applicant/Owner: Forsons Partners, L.L.C. **Plant Community #/Name:** OW-10
Note: **If a more detailed site description is necessary, use the back of data form or a field notebook.**

Do normal environmental conditions exist at the plant community?
Yes ✓ **No** _____ **(If no, explain on back)**
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ **No** _____ **(If yes, explain on back)** Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Fraxinus Americana	FACU	Trees	11. -		Woody Vines
2. Fagas grandifolia	FACU		12.		
3. Betula lenta	FACU		13.		
4.			14.		
5. Betula populifolia	FAC	Saplings	15.		
6. Betula lenta	FACU		16. Polygonum cuspidatum	FACU	Herbs
7.			17. Alliaria petiolate	FACU	
8. Rosa multiflora	FACU	Shrubs	18.		
9. Kalmia latifolia	FACU		19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 11.1
Is the hydrophytic vegetation criterion met? Yes _____ No ✓
Rationale: <50 % of the dominant species of each community type have an indicator (RIND) status of OBL, FACW, and/or FAC

SOILS

Series/phase: KneB-Knickerbocker fine, sandy loam 3-8% slopes **Subgroup:**[2] Typic Dystrudepts
Is the soil on the hydric soils list? Yes _____ No ✓ **Undetermined** _____
Is the soil a Histosol? Yes _____ No ✓ **Histic epipedon present?** Yes _____ No ✓
Is the soil: Mottled? Yes _____ No ✓ **Gleyed?** Yes _____ No ✓
Matrix Color: 10 YR 4/3 **Mottle Colors:** _____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes _____ No ✓
Rationale: Higher Chroma Matrix

HYDROLOGY

Is the ground surface inundated? Yes _____ No ✓ **Surface water depth:** _____
Is the soil saturated? Yes _____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Plot/points set at higher water mark of stream channel, some evidence of scour and silt/debris lines
Is the wetland hydrology criterion met? Yes _____ No ✓
Rationale: Flood plain area above top of stream banks of Peckman River only occasionaly flooded

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes _____ No ✓ (State open Waters)
Rationale for jurisdictional decision: Plot/ Points do not meet hydrophytic vegetation, hydric soil, and/or wetland hydrology criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet **Date:** 07/12/2017
Project/Site: Verona/ Commerce Ct. **State:** New Jersey **County:** Essex
Applicant/Owner: Forsons Partners, L.L.C. **Plant Community #/Name:** OW-10U
Note: **If a more detailed site description is necessary, use the back of data form or a field notebook.**

Do normal environmental conditions exist at the plant community?
Yes ✓ **No** _____ **(If no, explain on back)**
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ **No** _____ **(If yes, explain on back)** Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Fagas grandifolia	FACU	Trees	11. -		Woody Vines
2. Betula lenta	FACU		12.		
3.			13.		
4.			14.		
5. Betula populifolia	FAC	Saplings	15.		
6. Acer rubrum	FAC		16. Polygonum ouspidatum	FACU	Herbs
7.			17. Thelypteris noveboracensis	FAC	
8. Fagas grandifolia	FACU	Shrubs	18. Aster divaricatus	FACU	
9. Rosa multiflora	FACU		19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 33.3
Is the hydrophytic vegetation criterion met? Yes _____ **No** ✓
Rationale: <50 % of the dominant species of each community type have an indicator (RIND) status of OBL, FACW, and/or FAC

SOILS

Series/phase: KneB-Knickerbocker fine, sandy loam 3-8% slopes **Subgroup:**[2] Typic Dystrudepts
Is the soil on the hydric soils list? Yes _____ **No** ✓ **Undetermined** _____
Is the soil a Histosol? Yes _____ **No** ✓ **Histic epipedon present? Yes** _____ **No** ✓
Is the soil: Mottled? Yes _____ **No** ✓ **Gleyed? Yes** _____ **No** ✓
Matrix Color: 10 YR 4/3 **Mottle Colors:** _____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes _____ **No** ✓
Rationale: Higher Chroma Matrix

HYDROLOGY

Is the ground surface inundated? Yes _____ **No** ✓ **Surface water depth:** _____
Is the soil saturated? Yes _____ **No** ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Plot/points set at higher water mark of stream channel, some evidence of scour and silt/debris lines
Is the wetland hydrology criterion met? Yes _____ **No** ✓
Rationale: Flood plain area above top of stream banks of Peckman River only occasionaly flooded

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes _____ **No** ✓ (State open Waters)
Rationale for jurisdictional decision: Plot/ Points do not meet hydrophytic vegetation, hydric soil, and/or wetland hydrology criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Filet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: OW-11
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No _____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No _____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Fagas grandifolia	FACU	Trees	11.		Woody Vines
2. Acer rubrum	FAC		12.		
3. Fraxinus Americana	FACU		13.		
4.			14.		
5. Fagas grandifolia	FACU	Saplings	15.		
6.			16. Polygonum cuspidatum	FACU	Herbs
7.			17.		
8. Hamamelis virginiana	FAC	Shrubs	18.		
9. Rosa multiflora	FACU		19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 28.6
Is the hydrophytic vegetation criterion met? Yes _____ No ✓
Rationale: <50 % of the dominant species of each community type have an indicator (RIND) status of OBL, FACW, and/or FAC

SOILS

Series/phase: KneB-Knickerbocker fine, sandy loam 3-8% slopes Subgroup:[2] Typic Dystrudepts
Is the soil on the hydric soils list? Yes _____ No ✓ Undetermined _____
Is the soil a Histosol? Yes _____ No ✓ Histic epipedon present? Yes _____ No ✓
Is the soil: Mottled? Yes _____ No ✓ Gleyed? Yes _____ No ✓
Matrix Color: 10 YR 4/3 Mottle Colors: _____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes _____ No ✓
Rationale: Higher Chroma Matrix

HYDROLOGY

Is the ground surface inundated? Yes _____ No ✓ Surface water depth: _____
Is the soil saturated? Yes _____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Plot/points set at higher water mark of stream channel, some evidence of scour and silt/debris lines.
Is the wetland hydrology criterion met? Yes _____ No ✓
Rationale: Flood plain area above top of stream banks of Peckman River only occasionaly flooded

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes _____ No ✓ (State open Waters)
Rationale for jurisdictional decision: Plot/ Points do not meet hydrophytic vegetation, hydric soil, and/or wetland hydrology criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Pliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: OW-12
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Fagas grandifolia	FACU	Trees	11.		Woody Vines
2. Betula lenta	FACU		12.		
3. Quercus alb	FACU		13.		
4.			14.		
5. Acer platanoides	UPL	Saplings	15.		
6. Viburnum acerifolium	UPL		16. Polygonum cuspidatum	FACU	Herbs
7.			17. Aster divaricatus	FACU	
8. Viburnum acerifolium	UPL	Shrubs	18.		
9. Berberis thunbergii	FACU		19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 0
Is the hydrophytic vegetation criterion met? Yes ____ No ✓
Rationale: <50 % of the dominant species of each community type have an indicator (RIND) status of OBL, FACW, and/or FAC

SOILS

Series/phase: KneB-Knickerbocker fine, sandy loam 3-8% slopes Subgroup:[2] Typic Dystrudepts
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ____ No ✓ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 4/3 Mottle Colors: ____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes ____ No ✓
Rationale: Higher Chroma Matrix

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Plot/points set at higher water mark of stream channel, some evidence of scour and silt/debris lines
Is the wetland hydrology criterion met? Yes ____ No ✓
Rationale: Flood plain area above top of stream banks of Peckman River only occasionaly flooded

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ____ No ✓ (State open Waters)
Rationale for jurisdictional decision: Plot/ Points do not meet hydrophytic vegetation, hydric soil, and/or wetland hydrology criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: OW-13
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Fagas grandifolia	FACU	Trees	11.		Woody Vines
2. Fraxinus Americana	FACU		12.		
3. Quercus rubra	FACU		13.		
4.			14.		
5. Quercus rubra	FACU	Saplings	15.		
6.			16. Polygonum ouspidatum	FACU	Herbs
7.			17.		
8. Rosa multiflora	FACU	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 0
Is the hydrophytic vegetation criterion met? Yes ____ No ✓
Rationale: <50 % of the dominant species of each community type have an indicator (RIND) status of OBL, FACW, and/or FAC

SOILS

Series/phase: KneB-Knickerbocker fine, sandy loam 3-8% slopes Subgroup:[2] Typic Dystrudepts
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ____ No ✓ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 4/3 Mottle Colors: ____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes ____ No ✓
Rationale: Higher Chroma Matrix

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Plot/points set at higher water mark of stream channel, some evidence of scour and silt/debris lines.
Is the wetland hydrology criterion met? Yes ____ No ✓
Rationale: Flood plain area above top of stream banks of Peckman River only occasionaly flooded

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ____ No ✓ (State open Waters)
Rationale for jurisdictional decision: Plot/ Points do not meet hydrophytic vegetation, hydric soil, and/or wetland hydrology criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet Date: 07/12/2017
Project/Site: Verona/ Commerce Ct. State: New Jersey County: Essex
Applicant/Owner: Forsons Partners, L.L.C. Plant Community #/Name: OW-13U
Note: If a more detailed site description is necessary, use the back of data form or a field notebook.

Do normal environmental conditions exist at the plant community?
Yes ✓ No ____ (If no, explain on back)
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ No ____ (If yes, explain on back) Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/spoil piles from utility line construction.

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. Fraxinus Americana	FACU	Trees	11.		Woody Vines
2. Fagas grandifolia	FACU		12.		
3.			13.		
4.			14.		
5. Betula lenta	FACU	Saplings	15.		
6. Fagas grandifolia	FACU		16. Alliaria petiolate	FACU	Herbs
7.			17.		
8. Rosa multiflora	FACU	Shrubs	18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW, and/or FAC 0
Is the hydrophytic vegetation criterion met? Yes ____ No ✓
Rationale: <50 % of the dominant species of each community type have an indicator (RIND) status of OBL, FACW, and/or FAC

SOILS

Series/phase: KneB-Knickerbocker fine, sandy loam 3-8% slopes Subgroup:[2] Typic Dystrudepts
Is the soil on the hydric soils list? Yes ____ No ✓ Undetermined ____
Is the soil a Histosol? Yes ____ No ✓ Histic epipedon present? Yes ____ No ✓
Is the soil: Mottled? Yes ____ No ✓ Gleyed? Yes ____ No ✓
Matrix Color: 10 YR 5/3 Mottle Colors: ____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes ____ No ✓
Rationale: Higher Chroma Matrix

HYDROLOGY

Is the ground surface inundated? Yes ____ No ✓ Surface water depth: ____
Is the soil saturated? Yes ____ No ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Plot/points set at higher water mark of stream channel, some evidance of scour and silt/debris lines.
Is the wetland hydrology criterion met? Yes ____ No ✓
Rationale: Flood plain area above top of stream banks of Peckman River only occasionaly flooded

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes ____ No ✓ (State open Waters)
Rationale for jurisdictional decision: Plot/ Points do not meet hydrophytic vegetation, hydric soil, and/or wetland hydrology criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

DATA FORM
ROUTINE ONSITE DETERMINATION METHOD[1]

Field Investigator(s): Christopher A. Vander Fliet **Date:** 07/12/2017
Project/Site: Verona/ Commerce Ct. **State:** New Jersey **County:** Essex
Applicant/Owner: Forsons Partners, L.L.C. **Plant Community #/Name:** OW-14
Note: **If a more detailed site description is necessary, use the back of data form or a field notebook.**

Do normal environmental conditions exist at the plant community?
Yes ✓ **No** _____ **(If no, explain on back)**
Has the vegetation, soils, and/or hydrology been significantly disturbed?
Yes ✓ **No** _____ **(If yes, explain on back)** Erosion from adjacent upland properties from poor storm water management practices, lawn debris dumping. Past construction disturbances/spoil piles from utility line construction.

VEGETATION

	Dominant Plant Species	Indicator Status	Stratum		Dominant Plant Species	Indicator Status	Stratum
1.	Fraxinus Americana	FACU	Trees	11.	Parthenocissus quinquefolia	FACU	Woody Vines
2.	Acer rubrum	FAC		12.			
3.	Ulmus Americana	FACW		13.			
4.				14.			
5.	Acer platanoides	UPL	Saplings	15.			
6.	Fagas grandifolia	FACU		16.	Polygonum cuspidatum	FACU	Herbs
7.				17.	Phytolacca americana	FACU	
8.	Viburnum prunifolium	FACU	Shrubs	18.			
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW, and/or FAC 22.2
Is the hydrophytic vegetation criterion met? Yes _____ **No** ✓
Rationale: <50 % of the dominant species of each community type have an indicator (RIND) status of OBL, FACW, and/or FAC

SOILS

Series/phase: KneB-Knickerbocker fine, sandy loam 3-8% slopes **Subgroup:**[2] Typic Dystrudepts
Is the soil on the hydric soils list? Yes _____ **No** ✓ **Undetermined** _____
Is the soil a Histosol? Yes _____ **No** ✓ **Histic epipedon present? Yes** _____ **No** ✓
Is the soil: Mottled? Yes _____ **No** ✓ **Gleyed? Yes** _____ **No** ✓
Matrix Color: 7.5 YR 4/4 **Mottle Colors:** _____
Other hydric soil indicators: None
Is the hydric soil criterion met? Yes _____ **No** ✓
Rationale: Higher Chroma Matrix

HYDROLOGY

Is the ground surface inundated? Yes _____ **No** ✓ **Surface water depth:** _____
Is the soil saturated? Yes _____ **No** ✓
Depth to free-standing water in pit/soil probe hole: >18"
List other field evidence of surface inundation or soil saturation.
Plot/points set at higher water mark of stream channel, some evidence of scour and silt/debris lines
Is the wetland hydrology criterion met? Yes _____ **No** ✓
Rationale: Flood plain area above top of stream banks of Peckman River only occasionaly flooded

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes _____ **No** ✓ (State open Waters)
Rationale for jurisdictional decision: Plot/ Points do not meet hydrophytic vegetation, hydric soil, and/or wetland hydrology criteria

[1] This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.
[2] Classification according to "Soil Taxonomy."

Christopher A. Vander Fliet
Project Engineer

EDUCATION	BS in Civil Engineering – NJIT - 2013 MS in Environmental Engineering – NJIT – 2016 Methodology for Delineating Wetlands – Rutgers - 2015 Vegetation Identification North – Rutgers - 2015
YEARS EXPERIENCE	4

PROFESSIONAL REGISTRATIONS:

New Jersey EIT – April 2013
New Jersey PE Candidate – October 2017
Wetlands Delineation Certification - 2015
40-hour HAZWOPER – Technician Level - 2015

SUMMARY OF QUALIFICATIONS

Mr. Vander Fliet brings a detailed understanding of NJDEP Wetland and Flood Hazard Area Permit regulations to the team. He has been actively involved in more than a dozen applications to DEP for wetland and/or Flood Hazard Area permits within the last two years.

Atrium Health – Wayne, New Jersey – Mr. Vander Fliet was the assistant Environmental Scientist responsible for the freshwater wetlands delineation in the rear of the property located on Alps Road. He worked closely with Senior Environmental Specialist Joseph Labriola to record the species of herbs, shrubs, and trees on site, as well as identify hydric soils.

K Dojo Warrior Tribe, 38 Pier Lane – Fairfield, New Jersey – Mr. Vander Fliet was the Environmental Scientist responsible for the 3 freshwater wetlands delineation areas located throughout the property located on Pier Lane. Senior Environmental Specialist Joseph Labriola shadowed Mr. Vander Fliet's work of recording species of herbs, shrubs, and trees on site, as well as identify hydric soils. An LOI was granted from the DEP for this property in July 2017.

Special Surveyor for the Township. He serves as Municipal Surveyor for the Borough of Glen Ridge.

Mr. Lucin has been in charge of the field operations for survey and mapping for NJDEP work associated with Toney's Brook in Montclair and in Glen Ridge, West Branch of the Rahway River in West Orange, Peckman River in both West Orange and in Verona, Rockaway River in Wharton, Shrewsbury River in Rumson, Rahway River in Millburn as part of the Taylor Park Dam Project, Passaic River in Hanover as part of a Morristown & Erie Rail bridge replacement project and the lower Passaic River as part of the NJDEP scour sites analysis.

He has provided field survey and related calculations for structural steel erection and anchor bolt tolerances. He has been in responsible charge of building measurements directly related to the fabrication of steel members and for structural design efforts. His building survey experience includes steel plumbness surveys, wall plumbness surveys and the establishment of horizontal and vertical control points for monitoring during a variety of support of construction projects.

His construction stake-out experience includes Route 1&9 and the related bridges associated with the NJDOT reconstruction project at Tonnelle Avenue in Jersey City. It also includes the NJDOT reconstruction of Route 46 and the Riverview Drive Bridge in Totowa. It also includes numerous rail bridges, including the Morristown & Erie line over the Passaic River in Hanover and several miles of rail line for NJ Transit, Conrail, SEPTA and industrial lines.

REFERENCES:

1. BOUNDARY & TOPOGRAPHIC INFORMATION IS TAKEN FROM A CERTAIN MAP ENTITLED "COMMERCE COURT PARTNERS, LLC, 25 COMMERCE COURT, LOT 3.01 BLOCK 62, TOWNSHIP OF VERONA, ESSEX COUNTY, NEW JERSEY." PREPARED BY RCC DESIGN, INC. DATED 09/12/2000 AND SIGNED BY JAMES R. MCCUMSEY, PE, LS, PP.

NOTES:

1.) VERTICAL DATUM BASED ON A NGVD DATUM 1929 MONUMENT NO. 645

GENERAL WETLAND NOTES:

1.) WETLANDS-UPLAND BOUNDARY FIELD DETERMINED AND DELINEATED BY PETRY ENGINEERING, LLC ON 07/12/2017 & 07/13/2017 AND LOCATED BY ZL LAND SURVEYING, LLC ON 8/25/2017, ACTING AS AGENT FOR PETRY ENGINEERING LLC.

2.) SUBJECT TO FINAL VERIFICATION BY THE N.J.D.E.P. DIVISION OF LAND USE REGULATION.

3.) A PORTION OF THE SITE LIES WITHIN A FLOOD HAZARD AREA, AS PER FEMA FLOOD INSURANCE RATE MAP No. 34013C0103F, PANEL 103 OF 200. EFFECTIVE DATE: JUNE 4, 2007.

N.J.D.E.P. FRESH WATERS WETLANDS CLASSIFICATIONS

- -PF01A – PALUSTRINE, FORESTED, BROAD LEAVED DECIDUOUS, TEMPORARY SATURATED
- -PEM1B/PSS1B – PALUSTRINE EMERGENT, MIXED WITH PALUSTRINE SCRUB-SHRUB, BROAD-LEAVED DECIDUOUS
- -R3OW – RIVERINE, UPPER PERENNIAL, OPEN WATERS
- U – UPLANDS
- (10) – PHOTO LOCATION AND NUMBER (SEE PHOTO LOG REFERENCE No. AND DIRECTION OF VIEW) 1–17
- WA – # – WETLANDS/OPEN WATER FLAG LOCATION AND NUMBER

CAUTION: *IF THIS DOCUMENT DOES NOT CONTAIN A RAISED IMPRESSION SEAL OF THE UNDERSIGNED PROFESSIONAL, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT.*

REV. NO.	DESCRIPTION	DATE	BY

MAP OF PROPERTY OF

FORSONS PARTNERS, L.L.C.

25 COMMERCE COURT
LOT 3.01 BLOCK 1201
TOWNSHIP OF VERONA
ESSEX COUNTY NEW JERSEY

FRESHWATER WETLANDS DELINEATION MAP

PETRY ENGINEERING, LLC
DIVISION OF CONSUMER AFFAIRS LICENSE NUMBER 24GA28155900
155 PASSAIC AVENUE • FAIRFIELD • NEW JERSEY • 07004
TEL. (973) 227-7004 FAX (973) 227-7074

ZL LAND SURVEYING•LLC
20 LOMBARD DRIVE
WEST CALDWELL NEW JERSEY 07006
TEL: (973) 808-8488 (973) 244-5765
CERTIFICATE OF AUTHORIZATION No.24GA2811800
EMAIL – ZAKLUCIN @ AOL.COM

ZDRAVKO LUCIN – LS
N.J. PROFESSIONAL LAND SURVEYOR LIC. No. 36260 DATE: 08/30/2017

Designer: JAL/CVF
Draftsman: SPD
Checked By: ZL
Project No. 16-0169
Scale: 1"= 40'
Sheet 1 of 1