EcolSciences, Inc.
Environmental Management & Regulatory Compliance

October 28, 2020

Application Support
New Jersey Department of Environmental Protection
Division of Land Resource Protection
Mail Code 501-02A
P.O. Box 420
Trenton, New Jersey 08625

CERTIFIED MAIL

Re: Application for a Letter of Interpretation: Line Verification
Block 79, Lots 4, 5, 6, 7, 8.01, and 10
Branchburg Township
Somerset County, New Jersey

To Whom It May Concern:

In accordance with the Freshwater Wetlands Protection Act Rules (N.J.A.C. 7:7A-1 et. seq.), the applicant, Transcontinental Gas Pipe Line Company, LLC (Transco), is requesting a Letter of Interpretation (LOI) to verify the delineated wetland boundaries within the above-referenced site. The approximately 100-acre site is bordered to the north by landscaped/maintained land and Case Road, to the east by landscaped/maintained land, to the south by residential development, and west by agricultural land. The site is occupied by Transco's natural gas compressor station with landscaped/maintained land and associated drives and parking.

As required by Section 7:7A-16.2 and 16.3 of the Rules, enclosed please find the following information:

1. A completed Freshwater Wetlands Letter of Interpretation-Line Verification Application Checklist.

2. A completed Application Form with State Plane coordinates.

3. A copy of the letter to the Branchburg Township Clerk transmitting a complete copy of the request for a Letter of Interpretation and verification of the certified notice.

4. A copy of the legal notification that has been forwarded to the Branchburg Township Clerk, Planning Board, Environmental Commission and Construction Official, the Somerset County Planning Board, and property owners within 200 feet of the legal boundary line. Verification of the certified notices and a certified list of property owners are attached.

75 Fleetwood Drive ☐ Suite 250 ☐ Rockaway, New Jersey 07866 ☐ 973/366-9500 ☐ FAX: 973/366-9593
www.EcolSciences.com

5. A check in the amount of $11,000.00 ($1,000.00 + $100.00 x 100 acres) made payable to "Treasurer, State of New Jersey" for the application fee.

6. A Wetland Investigation Report dated October 27, 2020 containing soils, vegetation and hydrology information, as well as original annotated color photographs and Wetland Data Sheets. The Wetland Report also contains a copy of the appropriate portion of the USGS RARITAN NJ, New Jersey quadrangle, a copy of a portion of the local road map on which the subject site location is noted, NRCS Custom Soil Resource Report and the qualifications of the preparers of the report.

7. A copy of the current municipal tax map with the site clearly indicated.

8. Five (5) copies of a topographical plan showing existing site conditions and wetland/water flag locations at a scale of no more than one inch equals 50 feet. The location of soil borings and photographs are also shown on the map and Figure 3 of the Wetland Investigation Report. The line segments between the wetlands/water flags are numbered. The soil borings are flagged in the field. Flags are numbered as shown on the map and marked in the field.

9. A request to the Natural Heritage Program regarding threatened and endangered species has been submitted. Upon receipt, the response document will be forwarded to the Department to aid in the review of this application.

10. A computer disk containing a complete copy of the application

Please feel free to contact me if you have any questions regarding this application.

Very truly yours,

EcolSciences, Inc.

Michael Levinson, PWS
Senior Project Manager

enclosures

cc: Maggie Schmitt, Clerk, Branchburg Township
Karen Olson
Jennifer Broush
David P Moskowitz, Ph.D.

State of New Jersey
Department of Environmental Protection

Revised: January 2019 **Website: www.nj.gov/dep/landuse**

FRESHWATER WETLANDS PROTECTION ACT RULES

APPLICATION CHECKLIST

Letter of Interpretation: Line Verification

CALL NJDEP AT (609) 777-0454 IF YOU HAVE ANY QUESTIONS

To apply for a letter of interpretation, please submit the information below to:

Postal Mailing Address

NJ Department of Environmental Protection
Division of Land Use Regulation
P.O. Box 420, Code 501-02A
Trenton, New Jersey 08625-0420
Attn: Application Support

Street Address (Courier & Hand Carry Only)

NJ Department of Environmental Protection
Division of Land Use Regulation
501 East State Street
Station Plaza 5, 2nd Floor
Trenton, New Jersey, 08609
Attn: Application Support

Please note: If you apply for a letter of interpretation and a permit, authorization, or waiver at the same time, the application requirements may be combined.

1. Completed application form; ✓

2. Documentation that notice of the application has been provided in accordance with N.J.A.C. 7:7A-17, as follows: ✓

Notice to municipal clerk (N.J.A.C. 7:7A-17.3(a))
A copy of the entire application, as submitted to the Department, must be provided to the municipal clerk in each municipality in which the site is located.

i. Documentation of compliance with this requirement shall consist of a copy of the certified United States Postal Service white mailing receipt, or other written receipt, for each copy of the application sent.

Notice to governmental entities and property owners (N.J.A.C. 7:7A-17.3(b) and (c))
A brief description of the proposed project, a legible copy of the site plan, and the form notice letter described at N.J.A.C. 7:7A-17.3(e)1iii must be sent to the following recipients:

A. The construction official of each municipality in which the site is located;
B. The environmental commission, or other government agency with similar responsibilities, of each municipality in which the site is located;
C. The planning board of each municipality in which the site is located;
D. The planning board of each county in which the site is located;
E. The local Soil Conservation District if the regulated activity or project will disturb 5,000 square feet or more of land; and
F. Adjacent property owners:
Unless the LOI is submitted with an application for a project listed at N.J.A.C. 7:7A-17.3(c)1-5 (which require different notice to property owners as described in the rules), notice shall be sent to all owners

of real property, including easements, located within 200 feet of the site of the proposed regulated activity.

The owners of real property, including easements, shall be those on a list that was certified by the municipality, with a date of certification no more than one year prior to the date the application is submitted.

ii. Documentation of compliance with this requirement shall consist of:

A. A copy of the certified United States Postal Service white mailing receipt for each public notice that was mailed, or other written receipt; and

B. A certified list of all owners of real property, including easements, located within 200 feet of the property boundary of the site (including name, mailing address, lot, and block) prepared by the municipality for each municipality in which the project is located. The date of certification of the list shall be no earlier than one year prior to the date the application is submitted to the Department.

iii. The form notice letter required under N.J.A.C. 7:7A-17.3(e)1iii shall read as follows:

"This letter is to provide you with legal notification that an application for letter of interpretation <<has been/will be>> submitted to the New Jersey Department of Environmental Protection, Division of Land Use Regulation for the site shown on the enclosed plan(s). A brief description of the proposed project follows: <<INSERT DESCRIPTION OF THE SITE AND ANY PROPOSED PROJECT>>

The complete permit application package can be reviewed at either the municipal clerk's office in the municipality in which the site subject to the application is located, or by appointment at the Department's Trenton Office. The Department of Environmental Protection welcomes comments and any information that you may provide concerning the proposed development and site. Please submit your written comments within 15 calendar days of receiving this letter to:

New Jersey Department of Environmental Protection
Division of Land Use Regulation
P.O. Box 420, Code 501-02A
Trenton, New Jersey 08625
Attn: (Municipality in which the property is located) Supervisor"

Newspaper Notice (N.J.A.C. 7:7A-17.4)

Please refer to this portion of the rules for guidance on providing newspaper notice for certain large scale linear, public, or commercial projects.

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3. The appropriate application fee, as specified in N.J.A.C. 7:7A-18.1, in the form of a check (personal, bank, certified, or attorney), money order, or government purchase order: ✓
   i. If not located in the Pinelands Area, made payable to "Treasurer State of New Jersey"
   ii. If located in the Pinelands Area, made payable to "NJDEP-Pinelands Wetlands Program."

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4. State plane coordinates in accordance with N.J.A.C. 7:7A-16.7(a) ✓

   i. If submitted with an application for a linear project of one-half mile or longer, include State plane coordinates at the endpoints of the project and State plane coordinates for points located at 1,000-foot intervals along the entire length of the project;

   ii. If submitted with an application for a linear project of less than one-half mile in length, include State plane coordinates at the endpoints of the project;

iii. If submitting an application for only an LOI, or an LOI and any other project, State plane coordinates at the approximate center of the site (within 50 feet of the actual center).

5. One set of color photographs showing a representative sample of the vegetation on the site or portion(s) of the site affected by the LOI application. Photographs must be mounted on 8½ -inch by 11-inch paper and accompanied by a map showing the location and direction from which each photograph was taken. Copies of photographs are acceptable provided they are color copies. Black and white copies of photographs are not acceptable. ✓

6. Color copies of the following maps: ✓

i. The tax map for the property;

ii. A copy of the portion of the county road map showing the property location;

iii. A copy of the county soil survey map with the site clearly outlined; and

iv. A copy of the USGS quad map(s) that include the site, with the site clearly outlined to scale.

7. Documentation of the name(s) and qualification(s) of the person(s) who prepared the application. For a Line Verification LOI, this includes the person who performed the delineation. ✓

8. Data sheets for sample locations including: ✓

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;

9. Survey: Five (5) folded copies of a topographical survey of the site; drawn at a scale of no more than 1 inch to 50 feet, certified in accordance with N.J.A.C. 7:7A-16.2(j), signed and sealed by a licensed surveyor pursuant to N.J.A.C. 13:40-7.2 through 7.4 and N.J.A.C. 7:7A-16.2(h) and 16.3(a)4, which: ✓

i. Includes the site boundaries (If applying for a line verification for an entire site) or identifies the portion of the site (which meets the requirements of N.J.A.C. 7:7A-4.5(b)2-3) subject to the verification

ii. Proposed boundaries of all on-site wetlands, and/or State Open Waters plus all transition areas (boundary of transition area can be added prior to application or during review);

A. When delineating a State open water one to five feet in width measured from top of bank, with no wetland boundary, the delineation shall indicate the centerline of the State open water with several data points numbered and shown on the plans. When delineating a State open water that is greater than five feet in width, the delineation shall include two survey lines, with numbered points, depicting the top of bank on both sides of the State open water;

iii. Depicts the flags or stakes identifying the boundaries in the field, sequentially numbered, and sequentially numbered line segments between each flag or stake;

iv. Identifies the location and identifying number of each sample location described in item A above;

v. Topographic contours as follows:

A. 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;

B. 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

vi. A digital copy, georeferenced in NAD 83, of any survey can also be provided in addition to the paper.

10. Site requirements: ✓

i. 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:

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

B. 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;

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

D. 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.

E. Flags should not be tied to dead or annual vegetation.

ii. Sample locations: All sample locations referenced in the data sheets must be clearly marked in the field.

11. Isolated wetland: If the applicant would like the Department to verify that a wetland is an isolated wetland, a request for that determination, and supporting documentation demonstrating that the wetland is isolated. For example, if inlets or pipes are present in the vicinity of the subject wetland, a map of the storm sewer system depicting the endpoint and invert elevations of the inlet or pipe. N/A

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 a NJDOT Priority 1 Repair Project?** Yes ☐ No ☑

Initial Application ☑ **Response to DLUR Deficiency** ☐ **Extension / Modification** ☐ **Is this project a NJDOT Priority 2 Repair Project?** Yes ☐ No ☑

1. **Applicant Name:** Mr./Ms./Mrs Transcontinental Gas Pipe Line,LLC Attn: Joe Dean E-Mail: Joseph.dean@williams.com
   Address: 2800 Post Oak Blvd Suite 900 Daytime Phone: 713-215-3427 Ext.
   City/State: Houston, TX Zip Code 77056 Cell Phone:
2. **Agent Name:** Mr./Ms./Mrs
   Firm Name: E-Mail:
   Address: Daytime Phone: Ext.
   City/State: Zip Code Cell Phone:
3. **Property Owner:** Mr./Ms./Mrs Same as applicant E-mail:
   Address: Daytime Phone: Ext.
   City/State: Zip Code Cell Phone:
4. **Project Name:** CS 505 - Letter of Interpretation Address/Location: 623 CASE RD
   Municipality: Branchburg County: Somerset Zip Code 08853
   Block(s): 79 Lot(s): 10,4,5,6,7,8.01
   N.A.D. 1983 State Plane Coordinates (feet) E(x): 427,778 N(y): 619,033 ***Not** Longitude/Latitude*
   Watershed: Raritan River SB (NB to Three Bridges) Subwatershed: Pleasant Run
   Nearest Waterway: Pleasant Run UNT
5. **Project Description:** Applicant seeks verification of the presence and extent of regulated features pursuant to the Feshwater Wetland Protection Act on the above referenced site.

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

10/23/2020
Date

Joseph Dean
Print Name

Signature of Applicant

Date

Print Name

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

Date

Print Name

Signature of Owner/Easement Holder

Date

Print Name/Title

C. APPLICANT'S AGENT

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

Name of Agent

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

Name of Firm

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

Thomas J. Murphy, PLS

Print Name

Principal of DW Smith Associates, LLC

Position & Name of Firm

24GS03720700

Professional License #

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

Print Name

Position & Name of Firm

Professional License # (If Applicable)

Date

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

10/23/2020
Date

Joseph Dean
Print Name

Signature of Owner/Easement Holder

Date

Print Name/Title

C. **APPLICANT'S AGENT**

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

Michael Levinson
Name of Agent

Senior Project Manager/ EcolSciences, Inc.
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

EcolSciences, Inc.
Name of Firm

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

Position & Name of Firm

Professional License # 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

Michael Levinson, PWS
Print Name

Senior Project Manager/ EcolSciences, Inc.
Position & Name of Firm

Professional License # (If Applicable)

10/23/2020
Date

FEE CALCULATION TIPS:

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

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

	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 Herbicide in Coastal Wetlands	$1,000.00	
☐	CZM Permit-by-Certification *(On-line application ONLY)*	$1000.00	

	Coastal Individual Permits	Fee Amount	Fee Paid
☐	CAFRA – IP SFH or Duplex	$2,000	
☐	CAFRA – IP Residential not SFH/duplex	$3,000 x_____# of units	
☐	CAFRA – IP Commercial, Industrial or Public	$3,000 x_____acres of the site	
☐	WFD - IP SFH or Duplex (Upland/Landward of MHWL)	$2,000	
☐	WFD – IP Residential not SFH/duplex (Upland/Landward of MHWL)	$3,000 x_____# of units	
☐	WFD – IP Commercial, Industrial or Public Development (Upland/Landward of MHWL)	$3,000 x_____acres of the site	
☐	WFD - IP SFH or Duplex (Waterward of MHWL)	$2,000	
☐	WFD – IP Residential not SFH/duplex (Waterward of MHWL)	$3,000 x_____acres of water area impacted	
☐	WFD – IP Commercial, Industrial or Public Development (Waterward of MHWL)	$3,000 x_____acres of water area impacted	
☐	CSW – IP SFH or Duplex	$2,000	
☐	CSW – IP All Development not SFH/duplex	$3,000 x_____acres of wetlands disturbed	

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

	Consistency Determination	Fee Amount	Fee Paid
☐	Water Quality Certificate (NOTE: No fee required under the coastal program)	$5,000 + ($2,500 x _____ # acres regulated area disturbed)	
☐	Federal Consistency	No Fee	No Fee

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

	Freshwater Wetlands General Permits	Fee Amount	Fee Paid
☐	FWGP1 Main. & Repair Exist Feature	$1,000.00	
☐	FWGP2 Underground Utility Lines	$1,000.00	
☐	FWGP3 Discharge of Return Water	$1,000.00	
☐	FWGP4 Hazard Site Invest/Cleanup	$1,000.00	
☐	FWGP5 Landfill Closures	$1,000.00	
☐	FWGP6 Filling of Non-Tributary Wetlands	$1,000.00	
☐	FWGP6A TA Adj. to Non-Tributary Wetlands	$1,000.00	
☐	FWGP7 Human-made Ditches/Swales in Headwaters	$1,000.00	
☐	FWGP8 House Additions	$1,000.00	
☐	FWGP9 Airport Sight-line Clearing	$1,000.00	
☐	FWGP10A Very Minor Road Crossings	$1,000.00	
☐	FWGP10B Minor Road Crossings	$1,000.00	
☐	FWGP11 Outfalls / Intakes Structures	$1,000.00	
☐	FWGP12 Surveying and Investigating	$1,000.00	
☐	FWGP13 Lake Dredging	$1,000.00	
☐	FWGP14 Water Monitoring Devices	$1,000.00	
☐	FWGP15 Mosquito Control Activities	$1,000.00	
☐	FWGP16 Creation/Restoration/Enhancement Habitat	No Fee	No Fee
☐	FWGP17 Trails / Boardwalks	$1,000.00	
☐	FWGP17A Non-Motorized Multi-Use Paths	$1,000.00	
☐	FWGP18 Dam Repairs	$1,000.00	
☐	FWGP19 Docks and Piers	$1,000.00	
☐	FWGP20 Bank Stabilization	$1,000.00	
☐	FWGP21 Above Ground Utility Lines	$1,000.00	
☐	FWGP22 Expansion Cranberry Growing (Pinelands)	No Fee	No Fee
☐	FWGP23 Spring Developments	$1,000.00	
☐	FWGP24 Malfunctioning Individual Septic Systems	No Fee	No Fee
☐	FWGP25 Minor Channel / Stream Cleaning	$1,000.00	
☐	FWGP26 Redevelop Previously Disturbed Site	$1,000.00	
☐	FWGP27 Application of herbicide in wetlands	$1,000.00	

	Highlands	Fee Amount	Fee Paid
☐	Pre-application Meeting	$500.00	
☐	Resource Area Determination Boundary Delineation < one acre	$500.00	
☐	Resource Area Footprint of Disturbance	$500 + ($50 x_____# of acres of the site	
☐	Resource Area Determination Verification (> one acre)	$750 + ($100 x _____# of acres of the site)	
☐	Resource Area Determination Extension	0.25 x_____original fee (Minimum $250)	
☐	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)		
	Waiver Type:		
☐	HPAA Extension	$1,000	

	Freshwater Individual Permits	Fee Amount	Fee Paid
☐	FWW IP-SFH/Duplex-Wetlands	$2,000	
☐	FWW IP-Wetlands (not SFH/Duplex)	$5,000 + ($2,500 x _____# acres FWW disturbed)	
☐	FWW IP-SFH/Duplex-Open Water	$2,000	
☐	FWW IP-Open Water (not SFH/Duplex)	$5,000 + ($2,500 x _____# acres FWW disturbed)	

	Freshwater Wetlands Transition Area Waivers	Fee Amount	Fee Paid
☐	TAW Averaging Plan	*With valid LOI* $1,000 + ($100 x _____# acres TA disturbed)	
☐	TAW Hardship Reduction		
☐	TAW Reduction per N.J.A.C. 7:7A-8.1(d)		
☐	TAW Special Activity Individual Permit		
☐	TAW Special Activity Linear Development	*Without valid LOI* $1000 + ($100 x _____acres TA disturbed) + LOI Fee	
☐	TAW Special Activity Redevelopment		
☐	TAW Special Activity Stormwater		

	Letter of Interpretation	Fee Amount	Fee Paid
☐	LOI Presence Absence	$1,000.00	
☐	LOI Footprint of Disturbance (3 Maximum)	$1,000.00 each	
☐	LOI Delineation < 1.00 Acres	$1,000.00	
☑	LOI Verification	$1,000 + ($100 x 100 # of acres of the site)	$11,00.00
☐	LOI Partial Site Verification	$1,000 + ($100 x_____# of acres of the site subject to LOI)	
☐	LOI Extension Presence/Absence, Footprint, Delineation < 1 acre (Re-Issuance)	$500	
☐	LOI Extension Line Verification (Re-Issuance)	0.50 x_____original fee (Minimum $500)	

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

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

	Flood Hazard Area General Permits	Fee Amount	Fee Paid
☐	FHAGP1 Channel Clean w/o Sediment Removal	No Fee	
☐	FHAGP1 Channel Clean w/Sediment Removal	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	
☐	FHAGP5 Reconstruction and/or Elevation of Building in a Floodway	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	
☐	FHAGP14 Application of herbicide in riparian zone	$1,000.00	

	Flood Hazard Area Individual Permits	Fee Amount	Fee Paid
☐	FHA - IP SFH and/or Accessory Structures	$2,000	
☐	Individual Permit (Fee is calculated by adding the base fee to the specific elements below)	$3,000 Base Fee	
	FHA – IP Utility*	+ ($1,000 x_____# of water crossings)	
	FHA - IP Bank/Channel (No Calculation Review) *	+ $1,000	
	FHA - IP Bank/Channel (With Calculation Review) *	+ ($4,000 + ($400 x_____per 100 linear ft.))	
	FHA - IP Bridge/Culvert/Footbridge/Low Dam (No Calculation Review)*	+ ($1,000 x_____# of structures)	
	FHA - IP Bridge/Culvert/Footbridge/Low Dam (WIth Calculation Review) *	+ ($4,000 x_____# of structures)	
	FHA – Review of Flood Storage Displacement (net fill) Calculations*	+ $4,000	
	Total	IP Review Fee	

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

*Fee not applicable to (1) SFH

	Additional Flood Hazard Area Authorizations	Fee Amount	Fee Paid
☐	FHA Hardship Exception Request	$4,000	
☐	FHA GP Administrative Modification	No Fee	No Fee
☐	FHA GP Minor technical modification	$500 x_____# of proejct elements to be revised	
☐	FHA GP Major technical modification	0.30 x_____original fee (Minimum $500)	
☐	FHA Individual Permit Administrative Modification	No Fee	No Fee
☐	FHA Individual Permit Minor Technical Modification	$500 x_____# of proejct elements to be revised	
☐	FHA Individual Permit Major Technical Modification	0.30 x_____original fee (Minimum $500)	
☐	FHA Verification Administrative Modification	No Fee	No Fee
☐	FHA Verification Minor Technical Modification	$500 x_____# of proejct elements to be revised	
☐	FHA Verification Major Technical Modification	0.30 x_____original fee (Minimum $500)	
☐	FHA GP Extension	$240	
☐	FHA Individual Permit Extension	0.25 x_____original fee	
☐	FHA Verification Extension of Methods 1, 2, 3, 5, or Riparian Zone Only	$240	
☐	FHA Verification Extension of Methods 4 or 6	0.25 x_____original fee	
☐	FHA Individual Permit Equivalency/CERCLA	No Fee	No Fee
☐	FHA GP Administrative Modification	No Fee	No Fee

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

	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

TOTAL FEE:	$11,000.00
CHECK NUMBER:	2080511104

*Fee not applicable to (1) SFH

APPLICANT NAME: Transcontinental Gas Pipe Line,LLC Attn: Joe Dean FILE # (if known): _____

APPLICATION FORM - APPENDIX I

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

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: LOI Line Verification — WETLAND TYPE *Emergent, Forest, Shrub, Etc.*: Various — RESOURCE CLASSIFICATION *Ordinary, Intermediate, Exceptional, EPA, Etc.*: TBD

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

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			

GAS PIPELINE – TRANSCO
Land, GIS & Permits
2800 Post Oak Boulevard, Level 11
Houston, Texas 77056

September 10, 2019

Via Certified Mail
Return Receipt Requested

Ms. Catherine R. McCabe
Commissioner
New Jersey Department of Environmental Protection
P.O. Box 402
Trenton, NJ 08625-0402

Dear Ms. McCabe:

Transcontinental Gas Pipe Line Company, LLC, a Delaware limited liability company, (Transco) hereby notifies the Department of the Delegation of Signature Authority with respect to the Responsible Official Definition provided under the provisions of NEPA (42 USCS 4321, et seq. *and* 40 CFR 6 – implementation thereof). This letter supersedes all previous letters denoting Delegation of Signature Authority.

Persons holding the position of Director, Manager, Environmental Specialist, Environmental Scientist, or Engineer within Transco are recognized as having the ability to perform similar policy or decision making functions as myself for the Company. I hereby Delegate such signing authority to those persons.

Sincerely,

Scott Hallam
Senior Vice President, Atlantic-Gulf
Transcontinental Gas Pipe Line Company, LLC

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

October 28, 2020

Maggie Schmitt, Clerk
Branchburg Township
10100 US Highway 202 North
Branchburg, NJ 08876

CERTIFIED MAIL

Re: Application for a Letter of Interpretation: Line Verification
Block 79, Lots 4, 5, 6, 7, 8.01, and 10
Branchburg Township
Somerset County, New Jersey

Dear Mrs. Schmitt:

This letter is to inform you that Transcontinental Gas Pipe Line, LLC (Transco) is applying to the New Jersey Department of Environmental Protection, Division of Land Resource Protection for a Letter of Interpretation to verify the delineated limits of wetlands within the above-referenced site. The approximately 100-acre site is bordered to the north by landscaped/maintained land and Case Road, to the east by landscaped/maintained land, to the south by residential development, and west by agricultural land. The site is occupied by Transco's natural gas compressor station with landscaped/maintained land and associated drives and parking. Please find enclosed a complete copy of the application. Below please find the legal notice.

This letter is to provide you with legal notification that an application for a letter of interpretation has been submitted to the New Jersey Department of Environmental Protection, Division of Land Resource Protection for the site shown on the enclosed survey.

The complete permit application package can be reviewed at the municipal clerk's office in the municipality in which the site subject to the application is located or by appointment at the Department's Trenton Office. In addition, an electronic copy of the initial application can be provided via an OPRA request by contacting https://www.nj.gov/dep/opra/opraform.html from the Department's Trenton Office. The Department of Environmental Protection welcomes comments and any information that you may provide concerning the proposed development and site. Please submit your written comments within 15 calendar days of receiving this letter to:

New Jersey Department of Environmental Protection
Division of Land Resource Protection
P.O. Box 420, Code 501-02A
Trenton, New Jersey 08625
Attention: "Branchburg Township Supervisor"

75 Fleetwood Drive ☐ Suite 250 ☐ Rockaway, New Jersey 07866 – ☐ 973/366-9500 ☐ FAX: 973/366-9593
www.EcolSciences.com

If you have any questions regarding this notice, please feel free to contact me.

Very truly yours,

EcolSciences, Inc.

Michael Levinson, PWS
Senior Project Manager

enclosures

cc: NJDEP Application Support Section
Branchburg Township Environmental Commission Chairperson w/ Survey
Branchburg Township Planning Board Chairperson w/ Survey
Branchburg Township Construction Official w/ Survey
Somerset County Planning Board Chairperson w/ Survey
Karen Olson
Jennifer Broush

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

October 28, 2020

Property Owner within 200 Feet

CERTIFIED MAIL

Re: Application for a Letter of Interpretation: Line Verification
Block 79, Lots 4, 5, 6, 7, 8.01, and 10
Branchburg Township
Somerset County, New Jersey

Dear Property Owner:

This letter is to inform you that Transcontinental Gas Pipe Line, LLC (Transco) is submitting a Freshwater Wetlands application to the New Jersey Department of Environmental Protection (NJDEP), Division of Land Resource Protection (DLUR) for a Letter of Interpretation (LOI): Line Verification to verify the delineated limits of wetlands and width of the transition area (also known as wetlands buffer) within the above-referenced site. All LOI applications require that property owners within 200 feet of the site be notified via certified mail. A certified list of property owners within 200 feet of the above-referenced site was obtained from the Branchburg Township. The LOI application does not authorize a proposed project. If a proposed project requires any other approvals from the NJDEP DLUR, another notice will be sent via certified mail. No action is required on your part unless you wish to comment on this application.

The approximately 100-acre site is bordered to the north by landscaped/maintained land and Case Road, to the east by landscaped/maintained land, to the south by residential development, and west by agricultural land. The site is occupied by Transco's natural gas compressor station with landscaped/maintained land and associated drives and parking. Please find enclosed the survey. Below please find the legal notice.

This letter is to provide you with legal notification that an application for a letter of interpretation has been submitted to the New Jersey Department of Environmental Protection, Division of Land Resource Protection for the site shown on the enclosed survey.

The complete permit application package can be reviewed at the municipal clerk's office in the municipality in which the site subject to the application is located or by appointment at the Department's Trenton Office. In addition, an electronic copy of the initial application can be provided via an OPRA request by contacting https://www.nj.gov/dep/opra/opraform.html from the Department's Trenton Office. The Department of Environmental Protection welcomes comments and any information that you may provide concerning the proposed development and site. Please submit your written comments within 15 calendar days of receiving this letter to:

New Jersey Department of Environmental Protection
Division of Land Resource Protection
P.O. Box 420, Code 501-02A

75 Fleetwood Drive ☐ Suite 250 ☐ Rockaway, New Jersey 07866 ☐ 973/366-9500 ☐ FAX: 973/366-9593
www.EcolSciences.com

Trenton, New Jersey 08625
Attention: "Branchburg Township Supervisor"

If you have any questions regarding this application, please feel free to contact me.

Very truly yours,

EcolSciences, Inc.

Michael Levinson, PWS
Senior Project Manager

enclosures

cc: NJDEP Application Support
Karen Olson
Jennifer Broush

Township of Branchburg

1077 US HIGHWAY 202 NORTH, BRANCHBURG, NJ 08876-3936
TELEPHONE: (908) 526-1300 x139 FAX: (908) 526-7479 www.branchburg.nj.us
OFFICE OF THE ADMINISTRATIVE OFFICER

LETTER OF TRANSMITTAL

October 14, 2020

Sent by regular mail and email

Transco Williams
Leigh Kramer
P.O. Box 1789
Plains, PA. 18705

Block 79 Lot 4,5,6,7,8.01

Copy	Date	Description
1	10/14/20	Certified Property List Block **79 Lot 4,5,6,7,8.01**
1	10/14/20	Utility Notification List

Thomas Leach 10/14/20
Thomas Leach
Administrative Officer

ADJACENT PROPERTY LISTING APPLICANT: Transco Williams/ Leigh Kramer P

TAXING DISTRICT 05 BRANCHBURG TWP COUNTY 18 SOMERSET

PROPERTY ID	PROPERTY LOCATION	CLASS	OWNERS NAME & ADDRESS
76 2	1367 RT 202 1500+416	4A	1367 202 LLC 1367 RT 202 NORTH NESHANIC STA NJ 08853
76 3	1363 RT 202	2	EITEL RUTH J 1363 RT 202 NESHANIC STA NJ 08853
76 36.01	616 CASE RD	3A	GAUER WALTER E & CAROL B 616 CASE RD NESHANIC STA NJ 08853
76 36.01 QFARM	CASE RD	3B	GAUER WALTER E & CAROL B 616 CASE RD NESHANIC STA NJ 08853
76 36.02	610 CASE RD	3A	DWYER JAMES & NANCY 610 CASE RD NESHANIC STA NJ 08853
76 36.02 QFARM	CASE RD	3B	DWYER JAMES & NANCY 610 CASE RD NESHANIC STA NJ 08853
76 37	620 CASE RD	2	DERONDE CHRISTOPHER R 4 CARTER CT HILLSBOROUGH NJ 08844
76 38	622 CASE RD	2	CAMPBELL RICHARD J 622 CASE RD NESHANIC STA NJ 08853
76 39	624 CASE RD	2	TAM ALBERT & CHOW MELINDA Y 624 CASE RD NESHANIC STA NJ 08853
76 40	626 CASE RD	2	MORELLI-KALBACHER LIVING TRUST PO BOX 237 NESHANIC STA, NJ 08853
76 41	628 CASE RD	2	BAER DOLORES 628 CASE RD NESHANIC STA NJ 08853
79 8	611 CASE RD	3A	EURICK ROBERT J 611 CASE RD NESHANIC STA NJ 08853
79 8.02	617 CASE RD L2FAM	2	MAGROSKY FRANK & FRANCINE 617 CASE RD NESHANIC STA NJ 08853
79 10	623 CASE RD	4A	TRANSCO GAS PIPELINE CORP%TAX DEPT PO BOX 2400 MD 46-4 TULSA OK 74102.2400

Thomas Leach 10/14/20

Thomas Leach
Administrative Officer

TOWNSHIP OF BRANCHBURG
UTILITY NOTIFICATION LIST

Water:

New Jersey- American Water Company, Inc.
c/o General Tax Dept.
PO Box 5627
Cherry Hill, NJ 08034

Gas:

Public Service Electric & Gas Company
Manager-Corporate Properties
80 Park Plaza, T6B
Newark, NJ 07102

Electric:

Corporate Secretary
Jersey Central Power & Light
300 Madison Avenue
Morristown, NJ 07962

Telecommunication:

Corporate Secretary
Verizon
540 Broad Street
Newark, NJ 07101

Nicki Graham
Sprint
1201 Walnut Bottom Road
Carlisle, PA 17013

Outside Plant Supervisor
AT&T OSP
Patricia Drive
Flanders, NJ 07836

United Fiber & Data, LLC
Christopher Lodge, Chief Operating Officer
210 York Street, Suite 210
York, PA 17403

Other:

Corporate Secretary
Algonquin Gas Transmission Company
890 Winter Street, Suite 300
Waltham, MA 02451-1493

Corporate Secretary
Transcontinental Gas Pipe Line Corp.
99 Farber Road
Princeton, NJ 08540

The above utility owners may have easements or rights-of way located on or within 200 feet of the property in question and may require notice under N.J.S.A. 40:55D-12h.

Thomas Leach 10/14/20
Thomas Leach
Administrative Officer

Township of Branchburg

1077 US HIGHWAY 202 NORTH, BRANCHBURG, NJ 08876-3936
TELEPHONE: (908) 526-1300 x139 FAX: (908) 526-7479 www.branchburg.nj.us
OFFICE OF THE ADMINISTRATIVE OFFICER

LETTER OF TRANSMITTAL

October 6, 2020

Sent by regular mail and email

Williams
Leigh Kramer
P.O. Box 1789
Plains, PA. 18705

Block 79 Lot 10

Copy	Date	Description
1	10/06/20	Certified Property List Block 79, Lot 10
1	10/06/20	Utility Notification List
1	10/06/20	Additional Notification List

Thomas Leach 10/6/20
Thomas Leach
Administrative Officer

TAXING DISTRICT 05 BRANCHBURG TWP COUNTY 18 SOMERSET

PROPERTY ID	PROPERTY LOCATION	CLASS	OWNERS NAME & ADDRESS
76 40	626 CASE RD	2	MORELLI-KALBACHER LIVING TRUST PO BOX 237 NESHANIC STA, NJ 08853
76 41	628 CASE RD	2	BAER DOLORES 628 CASE RD NESHANIC STA NJ 08853
76 42	630 CASE RD	2	TITTA FRANCIS & MIRIAM 630 CASE RD NESHANIC STA NJ 08853
76 43	636 CASE RD	2	HUSLAGE JOHN T & TARRA M 636 CASE RD NESHANIC STA NJ 08853
77 28	2301-2303 SOUTH BRANCH RD SEE LOT 27.02	15C	COUNTY OF SOMERSET PO BOX 3000 SOMERVILLE NJ 08876
77 29	2327 SOUTH BRANCH RD	2	HAMMER STACI J 2327 SOUTH BRANCH RD NESHANIC STA NJ 08853
77 29.01	2325 SOUTH BRANCH RD	15C	COUNTY OF SOMERSET PO BOX 3000 SOMERVILLE NJ 08876
77 29.06	2329 SOUTH BRANCH RD	2	ZELNOCK MICHAEL A & ELLEN S 2329 SOUTH BRANCH RD NESHANIC STATION NJ 08853
79 3 QFARM	CASE RD FARMLND PRESERVATION	3B	MIKULSKI MATTHEW J & SHULGA ERI 659 CASE RD NESHANIC STA NJ 08853
79 4	629 CASE RD	1	TRANSCO GAS PIPELINE CORP%TAX DEPT PO BOX 2400 MD 46-4 TULSA OK 74102.2400
79 5	627 CASE RD	1	TRANSCO GAS PIPELINE CORP%TAX DEPT PO BOX 2400 MD 46-4 TULSA OK 74102.2400
79 6	625 CASE RD	1	TRANSCO GAS PIPELINE CORP%TAX DEPT PO BOX 2400 MD 46-4 TULSA OK 74102.2400
79 7	621 CASE RD	1	TRANSCO GAS PIPELINE CORP%TAX DEPT PO BOX 2400 MD 46-4 TULSA OK 74102.2400
79 8	611 CASE RD	3A	EURICK ROBERT J 611 CASE RD NESHANIC STA NJ 08853

PROPERTY ID	PROPERTY LOCATION	CLASS	OWNERS NAME & ADDRESS
79 8.01	619 CASE RD	1	TRANSCO GAS PIPELINE CORP%TAX DEPT PO BOX 2400 MD 46-4 TULSA OK 74102.2400
79 8.02	617 CASE RD L2FAM	2	MAGROSKY FRANK & FRANCINE 617 CASE RD NESHANIC STA NJ 08853
79 8.03	2308 SOUTH BRANCH RD	2	ROMAN ROBERTO & LAGALANTE EVELYN 2308 SO BRANCH RD NECHANIC STA NJ 08853
79 9	2316 SOUTH BRANCH RD	2	PAGER DAVID J 2316 SOUTH BRANCH RD NESHANIC STA NJ 08853
79 9.01	2312 SOUTH BRANCH RD	2	DELROCCO SHARON 2312 SOUTH BRANCH RD NESHANIC STA NJ 08853
79 9.02	2314 SOUTH BRANCH RD	2	GIBBS GERVILLE & LISA 2314 SOUTH BRANCH RD NESHANIC STA NJ 08853
79 11.01	247 RONAN WAY	2	TENDOLKAR AMOL V & SWATI A PO BOX 466 NESHANIC STA NJ 08853
79 11.02	251 RONAN WAY	2	NOVAK JOSEPH D & ELVIA 251 RONAN WAY NESHANIC STA NJ 08853
79 11.03	255 RONAN WAY	2	HYLIND KEITH & ROBERTS PENELOPE 255 RONAN WAY NESHANIC STA NJ 08853
79 14.04	215 RONAN WAY	2	BRENNER DARREN & SUSAN 215 RONAN WAY NESHANIC STATION NJ 08853
79 14.05	219 RONAN WAY	2	MALMSTROM III MORRIS A & LINDA A 219 RONAN WAY NESHANIC STA NJ 08853
79 14.06	223 RONAN WAY	2	BENNER PAUL & JEANNE 223 RONAN WY NESHANIC STATION NJ 08853
79 14.07	227 RONAN WAY	2	BICK MARTIN & KAREN 227 RONAN WAY NESHANIC STA NJ 08853
79 14.08	231 RONAN WAY	2	CARRO JOHN P & TANYA R 231 RONAN WAY NESHANIC STA NJ 08853

TAXING DISTRICT 05 BRANCHBURG TWP COUNTY 18 SOMERSET

PROPERTY ID	PROPERTY LOCATION	CLASS	OWNERS NAME & ADDRESS
79 14.09	235 RONAN WAY	2	TAYLOR JOAN BEAUMAN- 235 RONAN WAY NESHANIC STA NJ 08853
79 14.10	239 RONAN WAY	2	RUDOLPH SCOTT 239 RONAN WAY NESHANIC STA NJ 08853
79 14.11	243 RONAN WAY	2	COLE SHANE & THERESA 243 RONAN WAY NESHANIC STA NJ 08853
79 20	639 CASE RD	2	BOISROND CHARLES 639 CASE RD NESHANIC STA NJ 08853
79 50	618 SUNRISE WAY	2	AMBIELLI ROBERT & PATRICIA 618 SUNRISE WAY NESHANIC STA NJ 08853

Thomas Leach 10/6/20
Thomas Leach
Administrative Officer

TOWNSHIP OF BRANCHBURG
UTILITY NOTIFICATION LIST

Water:

New Jersey- American Water Company, Inc.
c/o General Tax Dept.
PO Box 5627
Cherry Hill, NJ 08034

Gas:

Public Service Electric & Gas Company
Manager-Corporate Properties
80 Park Plaza, T6B
Newark, NJ 07102

Electric:

Corporate Secretary
Jersey Central Power & Light
300 Madison Avenue
Morristown, NJ 07962

Telecommunication:

Corporate Secretary
Verizon
540 Broad Street
Newark, NJ 07101

Nicki Graham
Sprint
1201 Walnut Bottom Road
Carlisle, PA 17013

Outside Plant Supervisor
AT&T OSP
Patricia Drive
Flanders, NJ 07836

United Fiber & Data, LLC
Christopher Lodge, Chief Operating Officer
210 York Street, Suite 210
York, PA 17403

Other:

Corporate Secretary
Algonquin Gas Transmission Company
890 Winter Street, Suite 300
Waltham, MA 02451-1493

Corporate Secretary
Transcontinental Gas Pipe Line Corp.
99 Farber Road
Princeton, NJ 08540

The above utility owners may have easements or rights-of way located on or within 200 feet of the property in question and may require notice under N.J.S.A. 40:55D-12h.

Thomas Leach 10/6/20
Thomas Leach
Administrative Officer

Township of Branchburg

1077 U.S. HIGHWAY 202 NORTH, BRANCHBURG, NJ 08876-3936
Telephone: (908) 526-1300 Fax: (908) 526-7479 www.branchburg.nj.us
OFFICE OF THE ADMINISTRATIVE OFFICER

In addition to the above mentioned properties, Notice must also be given to the following:

X Somerset County Planning Board
P.O. Box 3000
20 Grove Street
Somerville, NJ 08876-1262

___ Hunterdon County Planning Board
1 Main Street
Flemington, NJ 08822

___ Commissioner
New Jersey Dept.of Transportation
1035 Parkway Avenue
CN 600
Trenton, NJ 08625

You are required to Notice and obtain a Certified Property List from the following:

___ Bridgewater Township Clerk
700 Garretson Road
Bridgewater, NJ 08807

___ Readington Township Clerk
509 Route 523
Whitehouse Station, NJ 08889

___ Hillsborough Township Clerk
379 South Branch Road
Hillsborough, NJ 08844

___ Bedminster Township Clerk
Municipal Building
130 Hillside Avenue
Bedminster, NJ 07921

You should retain this list for future use. You will be required to Notice the property owners on this additional list.

Thomas Leach 10/6/20
Thomas Leach
Administrative Officer

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7020 0640 0000 1989 0840

EN20-016 CS505 LOI:LV 2020
Ms. Maggie Schmitt, Clerk
Branchburg Township
10100 US Highway 202 North
Branchburg, NJ 08876

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7020 0640 0000 1989 0802

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Environmental Comm Chairperson
Branchburg Township
10100 US Highway 202 North
Branchburg, NJ 08876

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7020 0640 0000 1989 0819

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Planning Board Chairperson
Branchburg Township
10100 US Highway 202 North
Branchburg, NJ 08876

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7020 0640 0000 1989 0826

EN20-016 CS505 LOI:LV 2020
Construction Official
Branchburg Township
10100 US Highway 202 North
Branchburg, NJ 08876

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Chairperson
Somerset County Planning Board
20 Grove Street - PO Box 3000
Somerville, NJ 08876-1262

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7020 0640 0000 6870 3207

EN20-016 CS505 LOI:LV 2020
1367 202 LLC
1367 Rt 202 North
Neshanic Sta, NJ 08853

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7020 0640 0000 6870 3214

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Eitel Ruth J
1363 Rt 202
Neshanic Sta, NJ 08853

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Gauer Walter E & Carol B
616 Case Rd
Neshanic Sta, NJ 08853

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7020 0640 0000 6870 3238

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Dwyer James & Nancy
610 Case Rd
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Deronde Christopher R
4 Carter Ct
Hillsborough, NJ 08844

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7020 0640 0000 6870 3252

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Campbell Richard J
622 Case Rd
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7020 0640 0000 6870 3269

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Tani Albert & Chow Melinda Y
624 Case Rd
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Morelli-Kalbacher Living Trust
PO Box 237
Neshanic Sta, NJ 08853

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628 Case Rd
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7020 0640 0000 6870 3290

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Eurick Robert J
611 Case Red
Neshanic Sta, NJ 08853

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7020 0640 0000 6870 3306

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Magrosky Frank & Francine
617 Case Rd
Neshanic Sta, NJ 08853

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Tax Dept
PO Box 2400 MD 46-4
Tulsa, OK 74102-2400

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NJ American Water Company Inc
c/o General Tax Dept
PO Box 5627
Cherry Hill, NJ 08034

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PSE&G Company
Manager-Corporate Properties
80 Park Plaza, T6B
Newark, NJ 07102

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7020 0640 0000 6870 3344

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Corporate Secretary
JCP&L
300 Madison Avenue
Morristown, NJ 07962

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Corporate Secretary
Verizon
540 Broad Street
Newark, NJ 07101

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Nicki Graham
Sprint
1201 Walnut Bottom Road
Carlisle, PA 17013

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Outside Plant Supervisor
AT&T OSP
Patricia Drive
Flanders, NJ 07836

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United Fiber & Data LLC
Christopher Lodge, COO
210 York Street, Suite 210
York, PA 17403

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7020 0640 0000 6870 3399

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Corporate Secretary
Algonquin Gas Transmission Co
890 Winter Street, Suite 300
Waltham, MA 02451-1493

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Corporate Secretary
Transcontinental Gas Pipe Line Corp
99 Farber Road
Princeton, NJ 08540

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7020 0640 0000 6870 3412

EN20-016 CS505 LOI:LV 2020
Titta Francis & Miriam
630 Case Rd
Neshanic Sta, NJ 08853

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7020 0640 0000 6870 3429

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Huslage John T & Tarra M
636 Case Rd
Neshanic Sta, NJ 08853

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7020 0640 0000 6870 3436

EN20-016 CS505 LOI:LV 2020
County of Somerset
PO Box 3000
Somerville, NJ 08876

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Hammer Staci J
2327 South Branch Rd
Neshanic Sta, NJ 08853

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WETLAND INVESTIGATION REPORT
FOR
CS 505
BLOCK 79, LOTS 4, 5, 6, 7, 8.01, AND 10
TOWNSHIP OF BRANCHBURG
SOMERSET COUNTY, NEW JERSEY

Prepared for:

GAI Consultants
385 E. Waterfront Drive
Homestead, Pennsylvania 15120-5005
Attention: Jennifer Broush

Prepared by:

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75 Fleetwood Drive, Suite 250
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(973) 366-9500

August 7, 2020

Revision Date: October 27, 2020

TABLE OF CONTENTS

A. INTRODUCTION

The site is a 100±-acre area known as Block 79, Lots 4, 5, 6, 7, 8.01, and 10 in the Township of Branchburg, Somerset County, New Jersey (Figures 1 and 2 in Attachment A). The site is bordered to the north by landscaped/maintained land and Case Road, to the east by landscaped/maintained land, to the south by residential development, and west by agricultural land. The site is occupied by Transco's natural gas compressor station with landscaped/maintained land and associated drives and parking. The site is within the Pleasant Run watershed of the South Branch of the Raritan River Drainage Basin.

According to the Wetlands (from Land Use/Land Cover 2012 Update), Edition 20150217 GIS mapping for the site as prepared by the New Jersey Department of Environmental Protection (NJDEP), the site contains an agricultural wetland along the western periphery of the site and a water body along the southeastern border of the site. EcolSciences, Inc. of Rockaway, New Jersey was retained to delineate and characterize any on-site wetlands regulated by the NJDEP in accordance with the Freshwater Wetlands Protection Act (N.J.S.A. 13:9B-1 et. seq.). This Act also gives the NJDEP jurisdiction over State open waters. Based upon EcolSciences' site investigation, wetlands and State open waters were identified on the site. The following sections describe the study methodology and results of the field investigation.

B. METHODOLOGY AND RATIONALE

As defined by the Freshwater Wetlands Protection Act (N.J.S.A. 13:9B-3), freshwater wetland means "an area that is inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support, and that under normal circumstances does support, a prevalence of vegetation typically adapted to life in saturated soil conditions, commonly known as hydrophytic vegetation".

Wetland investigations were conducted on the site in May, July, September, and October of 2020. The presence and limits of wetlands on the site were determined utilizing the "unified wetland delineation approach" as detailed within the Federal Manual for Identifying and Delineating Jurisdictional Wetlands (Federal Interagency Committee for Wetland Delineation, 1989) as mandated within the New Jersey Freshwater Wetlands Protection Act rules (N.J.A.C. 7:7A). This approach generally requires a coincidence of hydric soils, positive hydrological indicators and a prevalence of hydrophytic vegetation for a determination that an area is a wetland.

Soil samples were obtained utilizing a hand soil auger. Soil coloration to a depth of approximately 24 inches was determined by comparison to Munsell soil color charts and recorded along with soil texture. Mineral hydric soils usually exhibit one of the following color features in the horizon immediately below the A-horizon or 10 inches (whichever is shallower); matrix chroma of 2 or less in mottled soils, or matrix chroma of 1 or less in unmottled soils. Organic soils are typically hydric.

Plant species occurring onsite were identified and compared to the United States Army Corps of Engineers 2016 National Wetland Plant List (Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin., 2016). This list rates plant species according to their preference for hydric conditions based upon the following classification system:

OBL – Obligate Wetland	Almost always occur in wetlands
FACW – Facultative Wetland	Usually occur in wetlands, but may occur in non-wetlands
FAC – Facultative	Occur in wetlands and non-wetlands
FACU – Facultative Upland	Usually occur in non-wetlands, but may occur in wetlands
UPL – Obligate Upland	Almost never occur in wetlands

Additionally, if a species does not occur in wetlands, it is not on the list. At each soil boring location, the vegetation was recorded by species within the field of view. Ocular estimates of relative basal area for trees and cover for shrubs and herbs were made by species. If greater than 50 percent of the dominant species from all strata are classified as FAC, FACW or OBL then the vegetation is hydrophytic. Communities dominated by FACU or UPL species are hydrophytic if hydric soil and indicators of wetland hydrology are present. In other words, if the hydric soil and wetland hydrology criteria are met then the vegetation is considered hydrophytic.

An evaluation of on-site hydrology was made by noting the depth to free water in the auger hole and evidence of surface ponding or flooding. Depth to the seasonal high water table was based on the depth to soil mottling as is the procedure utilized by the USDA Natural Resources Conservation Service (formerly the Soil Conservation Service).

The vegetation, soil, and hydrology information described above was recorded on Wetland Data Sheets at each soil boring location. The wetland perimeter was flagged for subsequent survey where the parameters as set forth in the manual were met. In addition to freshwater wetlands, regulated State open waters were identified during the field investigation. Where State open waters

occur within wetlands, no delineation of these areas is provided. Where State open waters were identified outside of wetlands, they are shown on Figure 3 in Attachment A.

C. RESULTS

Based upon a field analysis of the on-site soils, apparent hydrology, and vegetation conducted in accordance with the federal wetland delineation methodology, EcolSciences has determined that wetlands and State open waters occur on the site. The field delineated limits of the wetlands and State open waters, are shown on Figure 3 in Attachment A. Wetland Data Sheets documenting the delineation are included in Attachment B. Color photographs showing existing conditions and vegetative communities are included in Attachment C. The location of Wetland Data Sheets/sampling points and photographs are noted on Figure 3 in Attachment A and enclosed LOI Plans. The following sections describe appropriate background information and the findings of the field investigation.

1. Soils

According to U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), Seven soil map units are mapped on the property: Bucks silt loam, 2 to 6 percent slopes (BucB), Klinesville channery loam, 12 to 18 percent slopes (KkoD), Penn silt loam, 0 to 2 percent slopes (PenA), Penn channery silt loam, 2 to 6 percent slopes (PeoC), Readington silt loam, 2 to 6 percent slopes (RedB), and Rowland silt loam 0 to 2 percent slopes, frequently flooded (RorAt).

Thirteen representative soil borings were taken on the site. A description of the soil profiles noted at each boring is found on Wetland Data Sheets in Attachment B. The location of soil borings is shown on the enclosed LOI Plans.

2. Hydrology

The site generally slopes east-southeast with elevations ranging from 197 in the north and 198 feet in southwest, to 131 feet in the southeast. Overland runoff is toward the southeast to a pond along the southeastern periphery of the site, which directly drains to a tributary of Pleasant Run. Pleasant Run and its tributaries have been classified by the NJDEP as FW2-NT (non-trout) waters (NJDEP, 2020).

Seven (7) wetlands and one State open water were delineated onsite. The onsite State open water is delineated by flags 505-S1-1 through 505-S1-36, commonly known as Transcon Pond, drains

directly to a tributary of Pleasant Run. The first wetland (Wetland 1) is an emergent wetland meadow located in the west-central portion of the site, delineated by flag numbers 505-W1-1 through 505-W1-49 which extends offsite to the west of the property line. The second wetland (Wetland 2) is an emergent and wooded wetland fringe located along the perimeter of the Transcon Pond in the southeastern portion of the site, delineated by flag numbers 505-W2-1 through 505-W2-4. The third wetland (Wetland 3) is an emergent swale located in the eastern portion of the site, delineated by flag numbers 505-W3-1 through 505-W3-35 which also eventually drains to Transcon Pond. The fourth wetland (Wetland 4) is an emergent stormwater basin delineated by flag numbers 505-W4-1 through 505-W4-13 which drains to Wetland 5 and eventually offsite. The fifth wetland (Wetland 5) is mostly located to the southwest of the property line, but the easternmost limit is located on the site as denoted by flags 505-W5-1 through 505-W5-4. Wetland 6 is delineated by flags 505-W6-1 through 505-W6-25 and consists of an emergent wetland meadow located at the north east corner of the site and is hydrologically connected to Transcon Pond. Wetland 7 is an emergent and wooded wetland fringe located along the edge of the pond, delineated by flags 505-W7-1 through 505-W7-4.

Within the identified wetland areas, positive hydrologic indicators include saturated soils, ponding, and silt and debris lines. Specific hydrologic indicators, if any, observed at each soil boring location are recorded on the Wetland Data Sheets included in Attachment B.

3. Vegetation

Based upon species composition, soils, and apparent hydrology noted during the field investigations, six vegetative communities were identified within the site: upland embankment, upland woods, upland field, palustrine deciduous forested (PFO1) wetlands, fringe wetland PEM/PFO and palustrine emergent (PEM) wetlands. Species identified within the site and their corresponding U.S. Army Corps of Engineers wetland classification are presented in Attachment E. Photographs documenting the existing vegetative communities are included in Attachment C. Each community is briefly described below:

Upland Embankment - This community is located within the east portion of the site adjacent the Transcon Pond. Canopy vegetation is dominated by black willow and Russian-olive. The woody understory commonly includes eastern poison ivy, multiflora rose, and Virginia-Creeper. Common herbs include Asiatic tearthumb and garlic-mustard.

Upland Woods - This community comprises a wooded area within the central portion of the site. Canopy vegetation is dominated by black cherry trees. The woody understory commonly includes Russian olive, Japanese honeysuckle, fox grape vine, and Asian bittersweet. Common herbs include reed canary grass, polygonum species, Japanese stilt grass, Asiatic tearthumb, and garlic mustard.

Upland field - This community present throughout the site. The community is comprised of late successional or scrubby fields. The late successional fields are characterized by upland plants such as orchard grass, goldenrod species, white clover, path rush, deer-tongue rosette grass, field garlic, common dandelion, great plantain, and rabbit-foot clover. Scattered plants of Russian-olive, eastern poison ivy, and red maple saplings were also observed.

Palustrine deciduous forested wetland (PFO1)- This community is located within the tree-row between the two fields on the northern portion of the site. The dominant canopy vegetation consists of red maple and mulberry species. The woody understory includes Virginia-creeper, Russian-Olive, eastern poison ivy, multiflora rose, and Asiatic tearthumb. Common herbs include Japanese stilt grass, soft rush, reed canary grass, and goldenrod species.

Fringe wetland PEM/PFO - This community is restricted to the perimeter of the onsite pond and is comprised of an emergent wetland within a wooded canopy. The dominant canopy vegetation consists of black willows. The woody understory includes black willow saplings. Common herbs include eastern poison ivy, Japanese stilt grass, reed canary grass, and sedge species.

Palustrine emergent wetland (PEM) - This community exists as swale on central portion of the site and a wet meadow on the eastern most portion of the site. Typically, this community is dominated by reed canary grass, sensitive fern, Japanese stilt grass, Arrow-lead tearthumb, Swamp milkweed, and garden yellow-rocket.

D. SUMMARY AND CONCLUSIONS

- Based upon a field investigation utilizing the "unified wetland delineation approach" as described in the Federal Interagency Manual for Identifying and Delineating Jurisdictional Wetlands, EcolSciences, Inc. has determined that wetlands and State open waters occur within the site as shown on Figure 3 in Attachment A.

- There are seven (7) wetlands onsite. Wetland 1 delineated by flag numbers 505-W1-1 through 505-W1-49 drains offsite to the west-northwest toward a tributary of Pleasant Run. Wetland 2 (delineated by flag numbers 505-W2-1 through 505-W2-4) and Wetland 3 (delineated by flag numbers 505-W3-1 through 505-W3-35) drain to the Transcon pond in the southeastern portion of the site, which drains directly to a tributary of Pleasant Run. Wetland 4 (delineated by flag numbers 505-W4-1 through 505-W4-13 is a stormwater basin that drains to Wetland 5 (delineated by flag numbers 505-W5-1 through 505-W5-4) and eventually offsite. Wetland 6 is an emergent meadow that drains to Transcon Pond and continues off-site to the northeast. Wetland 7 is a fringe wetland associated with Transcon Pond.

- The Transcon pond located along the southeastern portion of the site was delineated as a State open water, identified as 505-S1-1 through 505-S1-36.

- On-site wetlands and State open waters come under the jurisdiction of the New Jersey Department of Environmental Protection in accordance with the Freshwater Wetlands Protection Act.

- Wetlands within the property are subject to transition areas. The width of the transition areas will be based upon a determination of resource value by the NJDEP.

- Certain General Permit-by-Certification, General Permits, Transition Area Waivers, and Individual Permits, as defined in N.J.A.C. 7:7A Subchapters 5 to 10, may apply to activities proposed for this property.

REFERENCES

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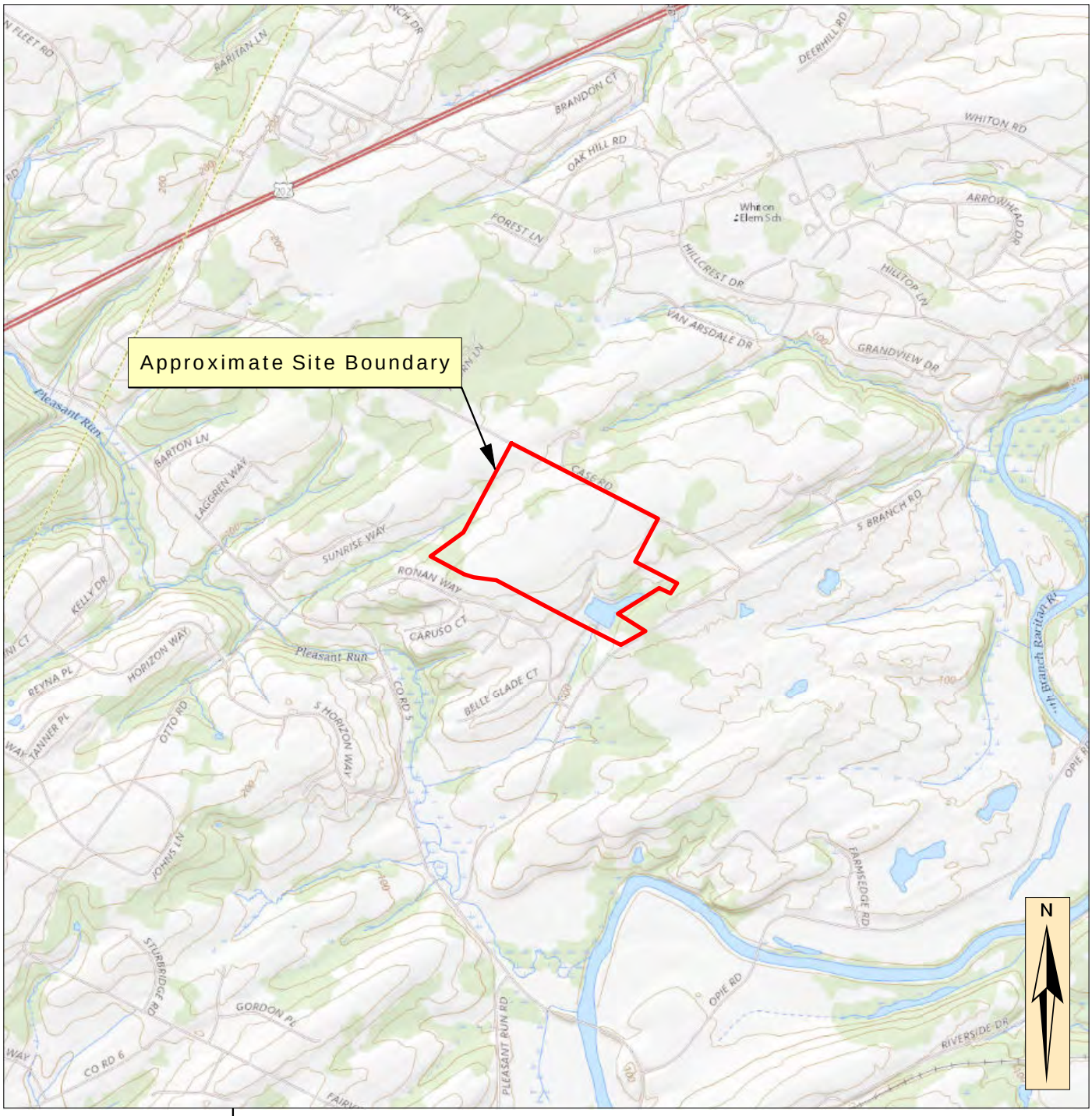
ATTACHMENT A

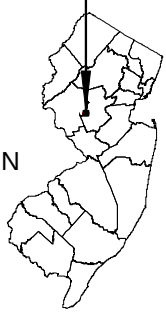
Figure 1: USGS Site Location
Figure 2: Local Road Map
Figure 3: Wetland/Waters
Tax Map

EcolSciences, Inc.
Environmental Management & Regulatory Compliance



0 2,000 4,000 Feet

SITE LOCATION



State Plane Coordinates (New Jersey NAD 83)
427,778' E; 619,033' N

FIGURE 1: USGS SITE LOCATION

CS 505
Block 79, Lots 4,5,6,7,8.01, &10
Township of Branchburg
Somerset County, New Jersey

USGS The National Map: National Boundaries Dataset, 3DEP.

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

Date: 10/9/20

Scale 1:24,000

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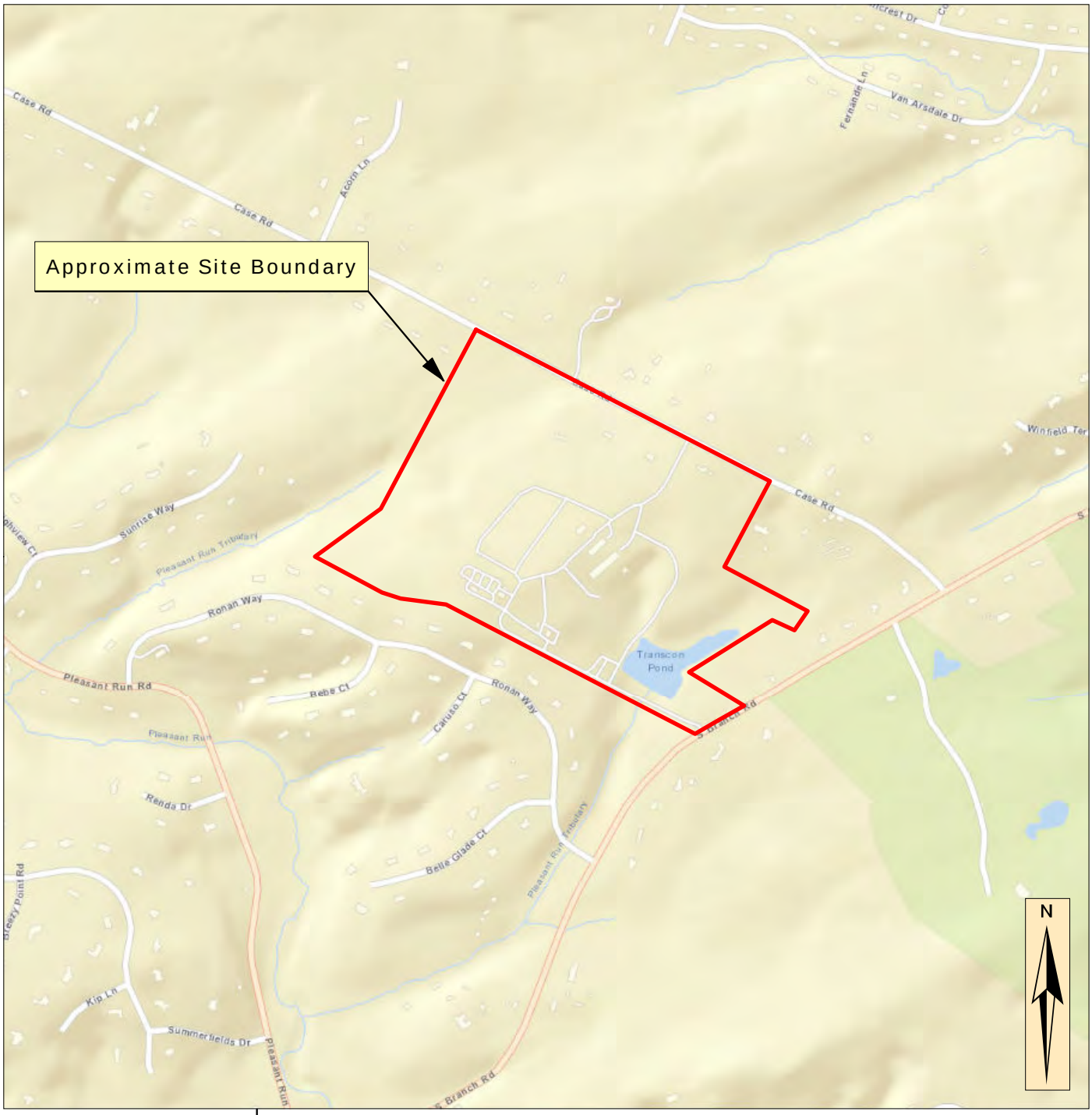

SITE LOCATION

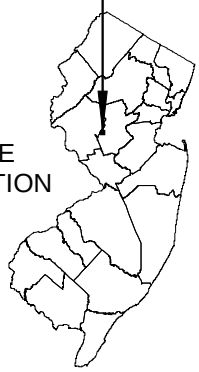

FIGURE 2: LOCAL ROAD MAP

CS 505
Block 79, Lots 4,5,6,7,8.01, &10
Township of Branchburg
Somerset County, New Jersey

Source: ESRI, Delorme, and Tele Atlas. World Street Map. ArcGIS Online Base Map.

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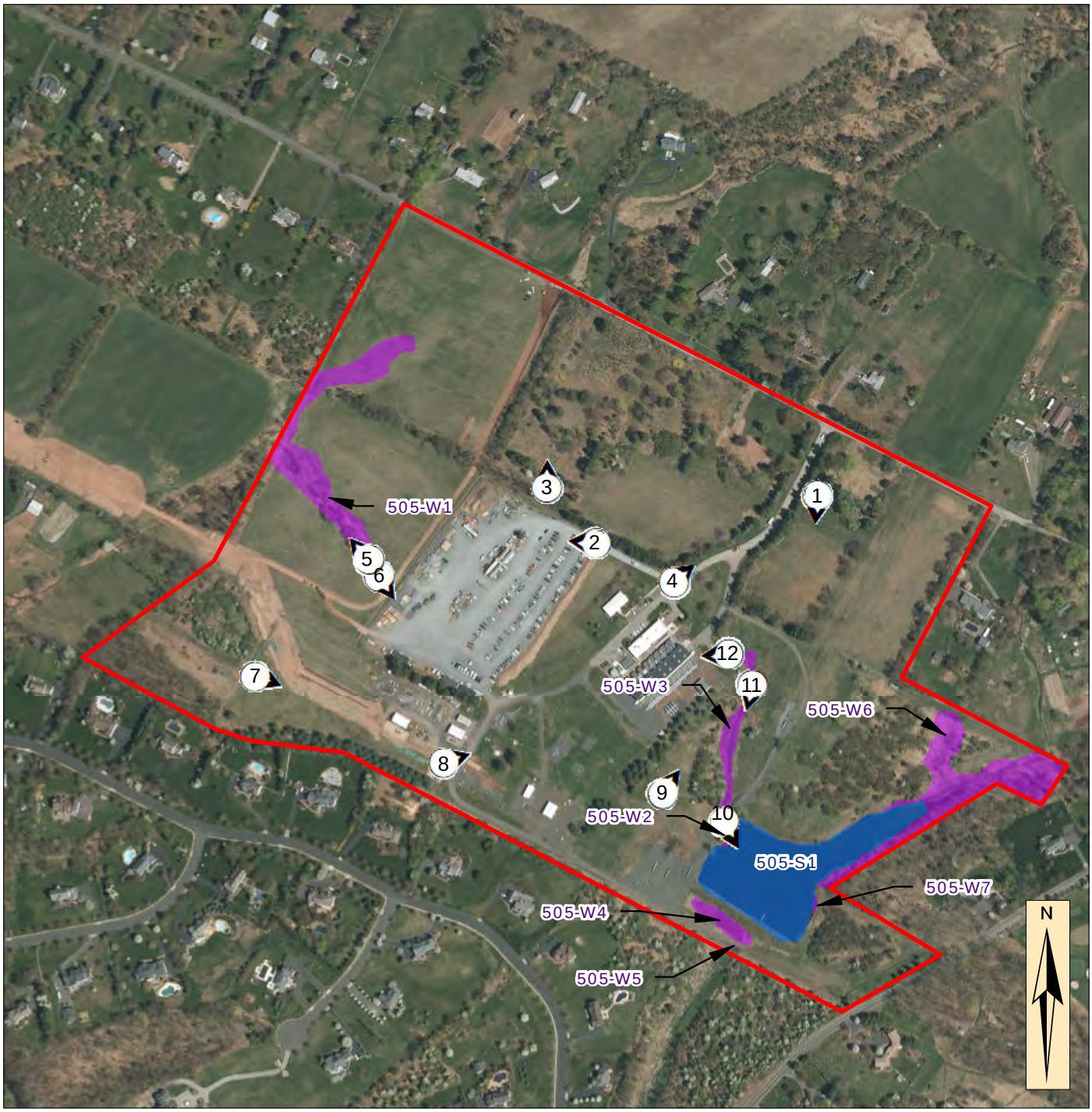
Environmental Management & Regulatory Compliance

Date: 10/23/20

Scale 1:12,000

F:\Jobs2020\EN20-016\GIS\projects\CS_505\roadmap.mxd



Approximate Site Boundary

Photo locations/directions

Delineated Waters

Delineated Wetlands

FIGURE 3: DELINEATED WETLANDS/WATERS

CS 505
Block 79, Lots 4,5,6,7,8.01, &10
Township of Branchburg
Somerset County, New Jersey

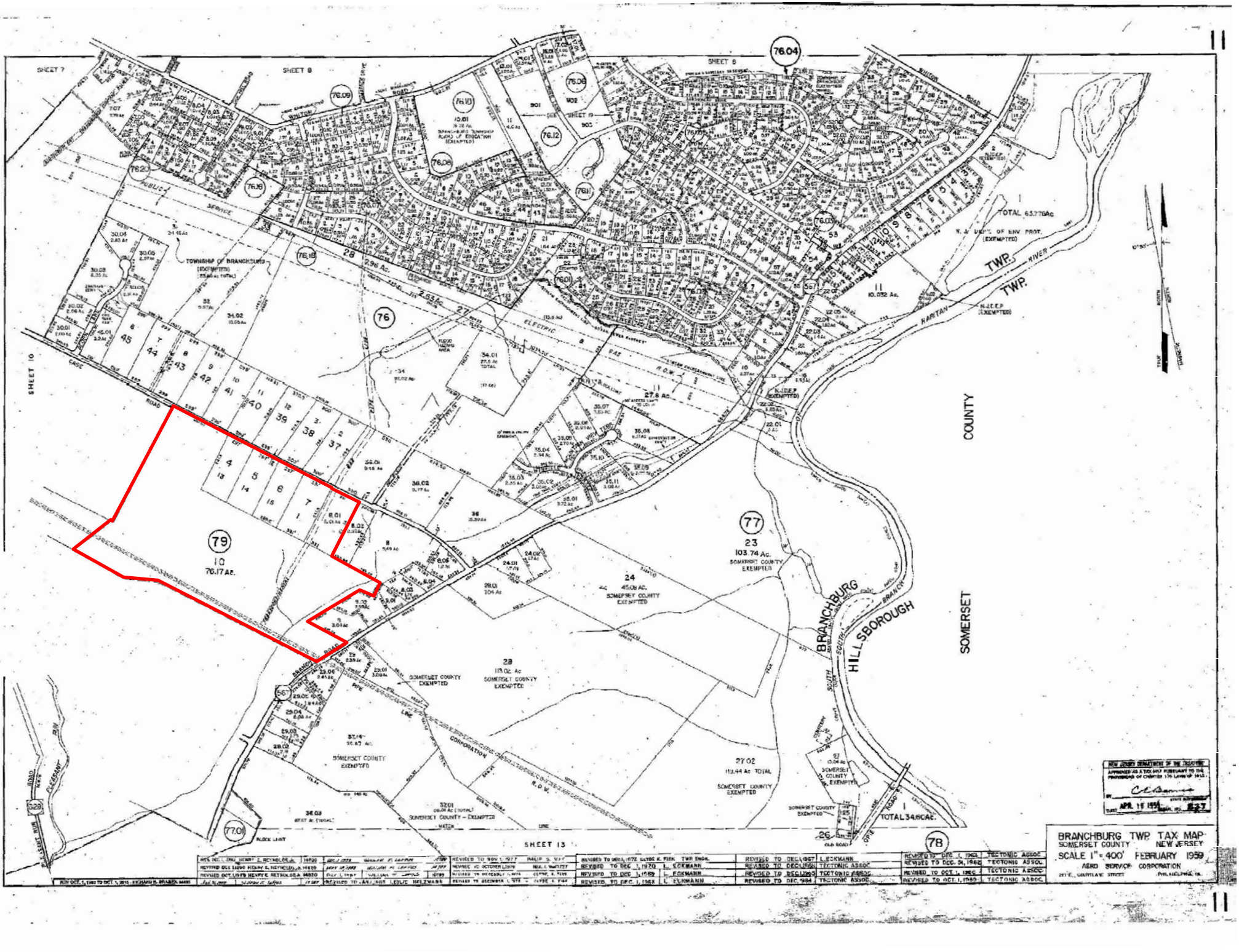
Source: NJOIT, OGIS. 2016. NJ 2015 High Resolution Orthophotography.

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

Date: 10/23/20

Scale 1:6,000

F:\Jobs2020\EN20-016\GIS\projects\CS_505\Figure 3-Wetland_Locations.mxd


SHEET 7
SHEET 8
SHEET 9
SHEET 10
SHEET 13
76.04
76.09
76.10
76.08
76.12
76.06
76.11
76.03
76.21
76.19
76.18
76.01
76
79
10
76.17 Ac.
77
23
103.74 Ac.
SOMERSET COUNTY EXEMPTED
24
45.08 AC.
SOMERSET COUNTY EXEMPTED
28
113.02 Ac
SOMERSET COUNTY EXEMPTED
27.02
113.44 Ac TOTAL
SOMERSET COUNTY EXEMPTED
78
TOTAL 34.8CAC.
TOTAL 63.776Ac
N. J. DEPT. OF ENV. PROT. (EXEMPTED)
TOWNSHIP OF BRANCHBURG (EXEMPTED)
BOARD OF EDUCATION (EXEMPTED)
N.J.D.E.P. (EXEMPTED)
RARITAN RIVER
TWP.
COUNTY
SOMERSET
HILLSBOROUGH
BRANCHBURG
SOUTH BRANCH
ELECTRIC
GAS
CASE ROAD
OLD ROAD
RAILROAD
CORPORATION
BLOCK LIMIT
WATER LINE
PIPE LINE
R.O.W.
BRANCHBURG TWP. TAX MAP
SOMERSET COUNTY NEW JERSEY
SCALE 1" = 400' FEBRUARY 1959
AERO SERVICE CORPORATION
APR. 15 1959

ATTACHMENT B

Wetland Data Sheets

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

WETLAND DATA SHEET

LOCATION: 505-B1 **Site:** Williams CS 505

Date: 9/1/2020

WETLAND: X **NONWETLAND:** **Team:** ML/DB

Photo #:

Flag #: 505-W1-2

VEGETATION: **Hydrophytic:** Yes X No: Inconclusive:

Community: PEM/Meadow

	Species	Relative Basal Area	Regional Indicator Status
Canopy	N/A		

		Percent Cover	
Understory/ Vines	N/A		

Ground Cover	New York Ironweed	35	FACW
	Soft rush	5	FACW
	Swamp milkweed	1	OBL
	Polyganum sp.	3	-
	Reed canary grass	5	FACW
	Nut sedge	5	FACW
	Grass sp.	50	-

SOILS: **Hydric:** Yes: X No: Inconclusive:

Depth (inches)	Munsell Notation	Description
0-8	5 YR 4/4	Silt loam w/ faint oxidized pore channels
8-20	5 YR 4/3	Silt loam w/ few manganese concretions

Hydrology: **Positive Indicators:** Yes: X No: Inconclusive:

Depth to Seasonal High Water Table: 8" Basis: Chroma break

Depth to Saturated Soil: Surface None Encountered:

Depth to Free Water: Surface None Encountered:

Other Indicators: Evidence of ponding

COMMENTS:

WETLAND DATA SHEET

LOCATION: 505-B2

Site: Williams CS 505

Date: 9/1/20

WETLAND: ____ **NONWETLAND:** X

Team: ML/DB

Photo #:

Flag #: 505-W1-2

VEGETATION: **Hydrophytic:** Yes ____ No: X **Inconclusive:** ____

Community: Upland field

	Species	Relative Basal Area	Regional Indicator Status
Canopy	N/A		

		Percent Cover	
Understory/ Vines	N/A		

Ground Cover	Pointed Broom sedge	5	FACW
	Yellow nutsedge	5	FACW
	Tall Redtop	50	FACU
	Horse nettle	10	FACU
	Common milkweed	10	FACU
	Dogbane	10	FACU
	Queen Ann's Lace	5	UPL
	Poison Ivy	5	FAC
	English Plantain	1	UPL

SOILS: **Hydric:** Yes: ____ No: X Inconclusive: ____

Depth (inches)	Munsell Notation	Description
0-20	5 YR 4/4	Silt Loam w/ Shale at 16"

Hydrology: **Positive Indicators:** Yes: ____ No: X Inconclusive: ____

Depth to Seasonal High Water Table: >20" Basis:

Depth to Saturated Soil: ____ None Encountered: X

Depth to Free Water: ____ None Encountered: X

Other Indicators:

COMMENTS: Red bed soils.

WETLAND DATA SHEET

LOCATION: 505-B3 **Site:** Williams CS 505

WETLAND: X **NONWETLAND:** _____ **Date:** 5/29/20 **Team:** ML/DB **Photo #:** _____ **Flag #:** 505-W2-1

VEGETATION: **Hydrophytic:** Yes X No: _____ Inconclusive: _____
Community: Fringe Wetland PEM/PFO

	Species	Relative Basal Area	Regional Indicator Status
Canopy	Black Willow	100	OBL

	Species	Percent Cover	Regional Indicator Status
Understory/ Vines	Black Willow	10	OBL

	Species	Percent Cover	Regional Indicator Status
Ground Cover	Eastern Poison Ivy	15	FAC
	Japanese Stilt Grass	30	FAC
	Reed Canary Grass	25	FACW
	Sedge sp.	5	-

SOILS: **Hydric:** Yes: X No: _____ Inconclusive: _____

Depth (inches)	Munsell Notation	Description
0-8	5 YR 3/2	Silt loam
8-20	5 YR 4/3	Sandy silt loam

Hydrology: **Positive Indicators:** Yes: X No: _____ Inconclusive: _____

Depth to Seasonal High Water Table:	Surface	Basis:	Ponding
Depth to Saturated Soil:	Surface	None Encountered:	
Depth to Free Water:	6"	None Encountered:	
Other Indicators:	Ponding		

COMMENTS: Red beds.

WETLAND DATA SHEET

LOCATION: 505-B4 **Site:** Williams CS 505

Date: 5/29/20

WETLAND: _____ **NONWETLAND:** X **Team:** ML/DB

Photo #:

Flag #: 505-W2-1

VEGETATION: **Hydrophytic:** Yes ____ No: X **Inconclusive:** ____

Community: Upland Embankment

	Species	Relative Basal Area	Regional Indicator Status
Canopy	Black Willow	10	OBL
	Russian-Olive	90	FACU

	Species	Percent Cover	Regional Indicator Status
Understory/ Vines	Eastern Poison Ivy	10	FAC
	Multiflora rose	20	FACU
	Japanese Honeysuckle	15	FACU
	Virginia-Creeper	10	FACU

Ground Cover	Asiatic Tearthumb	2	FAC
	Garlic-Mustard	80	FACU

SOILS: **Hydric:** Yes: ____ No: X Inconclusive: ____

Depth (inches)	Munsell Notation	Description
0-5	5 YR 3/3	Loam
5-10	5 YR 3/4	Loam
10+	Refusal	

Hydrology: **Positive Indicators:** Yes: ____ No: X Inconclusive: ____

Depth to Seasonal High Water Table: >10" Basis: None encountered

Depth to Saturated Soil: ____ None Encountered: X

Depth to Free Water: ____ None Encountered: X

Other Indicators: _____

COMMENTS:

WETLAND DATA SHEET

LOCATION: 505-B5 **Site:** Williams
CS 505
Date: 5/29/20
WETLAND: X **NONWETLAND:** **Team:** ML/DB
Photo #:
Flag #: W3-13

VEGETATION: **Hydrophytic:** Yes X No: Inconclusive:
Community: PEM

	Species	Relative Basal Area	Regional Indicator Status
Canopy	N/A		

		Percent Cover	
Understory/ Vines	N/A		

Ground Cover	Reed Canary Grass	60	FACW
	Sensitive Fern	15	FACW
	Japanese Stilt Grass	40	FAC
	Garden Yellow-Rocket	5	FACU

SOILS: **Hydric:** Yes: X No: Inconclusive:

Depth (inches)	Munsell Notation	Description
0-15	2.5 YR 4/2	Silt loam
15-20	2.5 YR 5/2	Silt loam w/ FFF 2.5 YR 5/3

Hydrology: **Positive Indicators:** Yes: X No: Inconclusive:
Depth to Seasonal High Water Table: 15" Basis: Redox
Depth to Saturated Soil: 15" None Encountered:
Depth to Free Water: 18" None Encountered:
Other Indicators: Near by ponding.

COMMENTS:

WETLAND DATA SHEET

LOCATION: 505-B6 **Site:** Williams CS 505

WETLAND: _____ **NONWETLAND:** X **Date:** 5/29/20 **Team:** ML/DB **Photo #:** _____ **Flag #:** 505-W3-13

VEGETATION: **Hydrophytic:** Yes ____ No: X **Inconclusive:** ____

Community: Upland Woods

	Species	Relative Basal Area	Regional Indicator Status
Canopy	Black Cherry	100	FACU

		Percent Cover	
Understory/ Vines	Russian-Olive	90	FACU
	Japanese Honeysuckle	10	FACU
	Fox Grape	5	FACU
	Asian Bittersweet	15	FACU

Ground Cover	Reed Canary Grass	15	FACW
	Polygonum sp.	30	-
	Japanese Stilt Grass	30	FAC
	Asiatic Tearthumb	5	FAC
	Garlic-Mustard	30	FACU

SOILS: **Hydric:** Yes: ____ No: X Inconclusive: ____

Depth (inches)	Munsell Notation	Description
0-20	2.5 YR 3/3	Silt loam

Hydrology: **Positive Indicators:** Yes: ____ No: X Inconclusive: ____

Depth to Seasonal High Water Table: >20" Basis: _____

Depth to Saturated Soil: _____ None Encountered: X

Depth to Free Water: _____ None Encountered: X

Other Indicators: _____

COMMENTS:

WETLAND DATA SHEET

LOCATION: 505-B7 **Site:** Williams CS 505

WETLAND: X **NONWETLAND:** _____ **Date:** 7/15/20 **Team:** ML/DB **Photo #:** _____ **Flag #:** 505-W1-33

VEGETATION: **Hydrophytic:** Yes X No: _____ Inconclusive: _____
Community: PFO1

	Species	Relative Basal Area	Regional Indicator Status
Canopy	Red Maple	70	FAC
	Mulberry sp.	30	-

	Species	Percent Cover	Regional Indicator Status
Understory/ Vines	Virginia-Creeper	2	FACU
	Russian-Olive	15	FACU
	Eastern Poison Ivy	3	FAC
	Multiflora rose	3	FACU
	Asiatic Tearthumb	1	FAC

Ground Cover	Japanese Stilt Grass	30	FAC
	Soft rush	10	FACW
	Reed Canary Grass	20	FACW
	Goldenrod sp.	5	-

SOILS: **Hydric:** Yes: X No: _____ Inconclusive: _____

Depth (inches)	Munsell Notation	Description
0-8	5 YR 3/2	Silty loam w/ FCD concentrations 5 YR 3/4
8-20	7.5 YR 3/2	Silty loam

Hydrology: **Positive Indicators:** Yes: X No: _____ Inconclusive: _____

Depth to Seasonal High Water Table:	Surface	Basis:	Scouring and water stained leaves
Depth to Saturated Soil:	8"	None Encountered:	
Depth to Free Water:	8"	None Encountered:	

Other Indicators: Scouring, nearby flowing water, water-stained leaved

COMMENTS: Tree row amid field water feature.

WETLAND DATA SHEET

LOCATION: 505-B8

Site: Williams CS 505

Date: 7/15/20

WETLAND: _____ **NONWETLAND:** X

Team: ML/DB

Photo #:

Flag #: 505-W1-33

VEGETATION: **Hydrophytic:** Yes _____ No: X **Inconclusive:** _____

Community: Upland Field

	Species	Relative Basal Area	Regional Indicator Status
Canopy	N/A		

		Percent Cover	
Understory/ Vines	Russian-Olive	10	FACU
	Eastern Poison Ivy	2	FAC

Ground Cover	Red Maple	5	FAC
	Orchard Grass	75	FACU
	Goldenrod sp.	5	-
	White Clover	5	FACU
	Path rush	5	FAC
	Deer-Tongue Rosette Grass	5	FAC
	Field Garlic	2	FACU
	Common Dandelion	2	FACU
	Great Plantain	2	FACU
	Rabbit-foot clover	10	-

SOILS: **Hydric:** Yes: _____ No: X Inconclusive: _____

Depth (inches)	Munsell Notation	Description
0-10	7.5 YR 4/3	Loam
10-20	7.5 YR 4/3	Loam w/ FCP RC 7.5 YR 5/8

Hydrology: **Positive Indicators:** Yes: _____ No: X Inconclusive: _____

Depth to Seasonal High Water Table: >20" Basis:

Depth to Saturated Soil: _____ None Encountered: X

Depth to Free Water: _____ None Encountered: X

Other Indicators:

COMMENTS: Recently mowed field.

WETLAND DATA SHEET

LOCATION: 505-B9 **Site:** Williams CS 505

Date: 7/15/20

WETLAND: _____ **NONWETLAND:** X **Team:** ML/DB

Photo #:

Flag #: N/A

VEGETATION: **Hydrophytic:** Yes _____ No: X **Inconclusive:** _____

Community: Upland forest

	Species	Relative Basal Area	Regional Indicator Status
Canopy	Black Cherry	40	FACU
	Tuliptree	20	FACU
	Sugar Maple	20	FACU
	Blackgum	40	FAC

		Percent Cover	
Understory/ Vines	Multiflora rose	10	FACU
	American Witch-Hazel	2	FACU
	Common Red Raspberry	2	FAC
	Japanese Honeysuckle	5	FACU
	Russian-Olive	5	FACU
Ground Cover	Common Timothy	2	FACU
	Orchard Grass	3	FACU
	Mugwort	5	UPL
	Foxglove Beardtongue	5	FAC
	Carolina Horse-Nettle	1	FACU
	Common Milkweed	2	FACU
	Canadian Goldenrod	25	FACU
	Reed Canary Grass	15	FACW
	Field Garlic	2	
	Narrow-Leaf Mountain-Mint	3	FACW

SOILS: **Hydric:** Yes: _____ No: X Inconclusive: _____

Depth (inches)	Munsell Notation	Description
0-20	7.5 YR 4/4	Loam w/ FFO 7.5 YR 5/6 RC

Hydrology: **Positive Indicators:** Yes: _____ No: _____ Inconclusive: _____

Depth to Seasonal High Water Table: >20" Basis: None encountered

Depth to Saturated Soil: _____ None Encountered: X

Depth to Free Water: _____ None Encountered: X

Other Indicators: _____

COMMENTS:

WETLAND DATA SHEET

LOCATION: 505-B10

Site: Williams CS 505

Date: 9/1/20

WETLAND: _____ **NONWETLAND:** X

Team: ML/DB

Photo #:

Flag #: 505-W4-3

VEGETATION: **Hydrophytic:** Yes ____ No: X **Inconclusive:** ____

Community: Upland Maintained Lawn

	Species	Relative Basal Area	Regional Indicator Status
Canopy	N/A		

		Percent Cover	
Understory/ Vines			

Ground Cover	Field Meadow-Foxtail	30	FACW
	Crown vetch	20	-
	Common mullein	5	FACU
	Tall redtop	30	FACU
	Reed canary grass	15	FACW

SOILS: **Hydric:** Yes: ____ No: X Inconclusive: ____

Depth (inches)	Munsell Notation	Description
0-15	5YR 4/3	Loam

Hydrology: **Positive Indicators:** Yes: ____ No: X Inconclusive: ____

Depth to Seasonal High Water Table: >20" Basis:

Depth to Saturated Soil: ____ None Encountered: X

Depth to Free Water: ____ None Encountered: X

Other Indicators:

COMMENTS: Recently mowed field.

WETLAND DATA SHEET

LOCATION: 505-B11

Site: Williams CS 505

Date: 9/1/20

WETLAND: X **NONWETLAND:**

Team: ML/DB

Photo #:

Flag #: 505-W4-3

VEGETATION: **Hydrophytic:** Yes X No: Inconclusive:

Community: PEM/Stormwater basin

	Species	Relative Basal Area	Regional Indicator Status
Canopy	N/A		

		Percent Cover	
Understory/ Vines	N/A		

Ground Cover	Phragmites	100	FACW
	Reed canary grass	20	FACW

SOILS: **Hydric:** Yes: X No: Inconclusive:

Depth (inches)	Munsell Notation	Description
0-15	5 YR 3/4	Silt loam
15+	Refusal	

Hydrology: **Positive Indicators:** Yes: X No: Inconclusive:

Depth to Seasonal High Water Table: 5" Basis: Redox

Depth to Saturated Soil: surface None Encountered:

Depth to Free Water: None Encountered: X

Other Indicators: scouring

COMMENTS:

WETLAND DATA SHEET

LOCATION: 505-B12

Site: Williams CS 505

Date: 10/1/20

WETLAND: X **NONWETLAND:**

Team: ML/DB

Photo #:

Flag #: 505-W6-5

VEGETATION: **Hydrophytic:** Yes X No: Inconclusive:

Community: PEM

	Species	Relative Basal Area	Regional Indicator Status
Canopy	N/A		

		Percent Cover	
Understory/ Vines	River birch	10	FACW

Ground Cover	Swamp milkweed	10	OBL
	Reed canary grass	100	FACW
	False nettle	5	FACW
	Arrow-leaf tearthumb	30	OBL
	Tuft grass	10	FACW

SOILS: **Hydric:** Yes: X No: Inconclusive:

Depth (inches)	Munsell Notation	Description
0-20	5 YR 4/3	Clay loam w/ Faint redoximorphic concentrations

Hydrology: **Positive Indicators:** Yes: X No: Inconclusive:

Depth to Seasonal High Water Table: Surface Basis: redox

Depth to Saturated Soil: surface None Encountered:

Depth to Free Water: 18" None Encountered:

Other Indicators:

COMMENTS:

WETLAND DATA SHEET

LOCATION: 505-B13

Site: Williams CS 505

Date: 10/1/20

WETLAND: _____ **NONWETLAND:** X

Team: ML/DB

Photo #:

Flag #: 505-W6-5

VEGETATION: **Hydrophytic:** Yes ____ No: X **Inconclusive:** ____

Community: Upland forest

	Species	Relative Basal Area	Regional Indicator Status
Canopy	Black Cherry	10	FACU
	Eastern red-cedar	15	FACU

	Species	Percent Cover	Regional Indicator Status
Understory/ Vines	Multiflora rose	5	FACU
	Black Cherry	5	FACU
	Autumn Olive	10	-

	Species	Percent Cover	Regional Indicator Status
Ground Cover	Carolina Horse-Nettle	10	FACU
	Common milkweed	5	UPL
	Deer-Tongue Grass	20	FAC
	Asiatic Tearthumb	15	FAC

SOILS: **Hydric:** Yes: ____ No: X Inconclusive: ____

Depth (inches)	Munsell Notation	Description
0-20	5 YR 4/4	Shaley Loam

Hydrology: **Positive Indicators:** Yes: ____ No: X Inconclusive: ____

Depth to Seasonal High Water Table: None Basis: None encountered

Depth to Saturated Soil: ____ None Encountered: X

Depth to Free Water: ____ None Encountered: X

Other Indicators:

COMMENTS:

ATTACHMENT C

Annotated Color Photographs

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

1

Photograph facing south of mowed field near the entrance of site.

2

Photograph facing southwest of the gravel lot to the west of entrance.

3

Photograph of marginal area facing east to the north of the facility fence line.

4

Photograph taken facing northeast of the facility entrance.

5

Photograph of 505-W1 taken facing northwest away from the facility.

6

Photograph of 505-W1 taken facing southeast toward the facility.

7

Photograph of upland field at western boundary of site taken facing east toward the facility.

8

Photograph of active facility taken from the center of site facing northwest

9

Photograph of upland field taken from the center of the site facing northeast.

10

Photograph of 505-S1 (Transcon Pond) facing southeast with 505-W3 wetland fringe in the foreground.

11

Photograph of wetland 505-W2 taken facing southwest.

12

Photograph of stormwater control taken facing west toward active facility.

ATTACHMENT D

Custom Soil Resource Report

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

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

Custom Soil Resource Report for Somerset County, New Jersey

CS 505

October 23, 2020

Preface

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

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

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

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

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

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

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Contents

Soil Map

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

Custom Soil Resource Report
Soil Map

Map Scale: 1:6,920 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 100 200 400 600

Feet: 0 300 600 1200 1800

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

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

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

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

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

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

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

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

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

Soil Survey Area: Somerset County, New Jersey
Survey Area Data: Version 18, Jun 1, 2020

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

Date(s) aerial images were photographed: Mar 26, 2011—May 1, 2011

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BucB	Bucks silt loam, 2 to 6 percent slopes	22.0	22.3%
KkoD	Klinesville channery loam, 12 to 18 percent slopes	7.8	7.9%
PenA	Penn silt loam, 0 to 2 percent slopes	9.1	9.2%
PeoB	Penn channery silt loam, 2 to 6 percent slopes	22.0	22.2%
PeoC	Penn channery silt loam, 6 to 12 percent slopes	24.3	24.6%
RedB	Readington silt loam, 2 to 6 percent slopes	4.5	4.5%
RorAt	Rowland silt loam, 0 to 2 percent slopes, frequently flooded	6.5	6.6%
WATER	Water	2.7	2.7%
Totals for Area of Interest		**98.9**	**100.0%**

Map Unit Descriptions

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

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

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas

are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

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

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

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

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

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

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

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

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

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

Somerset County, New Jersey

BucB—Bucks silt loam, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: 1j50b
Elevation: 50 to 1,000 feet
Mean annual precipitation: 30 to 64 inches
Mean annual air temperature: 46 to 79 degrees F
Frost-free period: 131 to 178 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Bucks and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Bucks

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Silty noncalcareous loess over residuum weathered from sandstone and shale

Typical profile

Ap - 0 to 8 inches: silt loam
E - 8 to 13 inches: silt loam
BE - 13 to 18 inches: silt loam
Bt - 18 to 27 inches: silt loam
2C - 27 to 48 inches: very channery silt loam
2R - 48 to 80 inches: weathered bedrock

Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: 39 to 59 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 7.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: B
Hydric soil rating: No

Minor Components

Readington

Percent of map unit: 5 percent
Landform: Hillsides
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Abbottstown

Percent of map unit: 5 percent
Landform: Drainageways
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Hydric soil rating: No

Penn

Percent of map unit: 5 percent
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

KkoD—Klinesville channery loam, 12 to 18 percent slopes

Map Unit Setting

National map unit symbol: 1jtbb
Elevation: 250 to 1,500 feet
Mean annual precipitation: 30 to 64 inches
Mean annual air temperature: 46 to 79 degrees F
Frost-free period: 131 to 178 days
Farmland classification: Not prime farmland

Map Unit Composition

Klinesville and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Klinesville

Setting

Landform: Hills
Landform position (two-dimensional): Shoulder
Down-slope shape: Linear

Across-slope shape: Convex
Parent material: Fine-loamy residuum weathered from shale

Typical profile

Ap - 0 to 7 inches: channery loam
B - 7 to 14 inches: channery loam
C - 14 to 18 inches: very channery loam
R - 18 to 80 inches: weathered bedrock

Properties and qualities

Slope: 12 to 18 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Somewhat excessively drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 1.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: D
Hydric soil rating: No

Minor Components

Bucks, eroded

Percent of map unit: 5 percent
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Convex
Hydric soil rating: No

Penn

Percent of map unit: 5 percent
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Convex
Hydric soil rating: No

Berks, eroded

Percent of map unit: 5 percent
Landform: Hills
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Hydric soil rating: No

PenA—Penn silt loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 1j52r
Elevation: 250 to 1,300 feet
Mean annual precipitation: 30 to 64 inches
Mean annual air temperature: 46 to 79 degrees F
Frost-free period: 131 to 178 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Penn and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Penn

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Fine-loamy residuum weathered from acid reddish shale, siltstone, and fine-grain sandstone

Typical profile

Ap - 0 to 8 inches: silt loam
Bt1 - 8 to 12 inches: silt loam
Bt2 - 12 to 25 inches: channery silt loam
C - 25 to 30 inches: very channery silt loam
R - 30 to 80 inches: weathered bedrock

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 20 to 39 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 4.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2s
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Norton
Percent of map unit: 5 percent
Landform: Flats
Down-slope shape: Linear
Across-slope shape: Convex
Hydric soil rating: No

Readington
Percent of map unit: 5 percent
Landform: Hillsides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Klinesville
Percent of map unit: 5 percent
Landform: Hills
Down-slope shape: Linear
Across-slope shape: Convex
Hydric soil rating: No

PeoB—Penn channery silt loam, 2 to 6 percent slopes

Map Unit Setting
National map unit symbol: 1j52v
Elevation: 250 to 1,300 feet
Mean annual precipitation: 30 to 64 inches
Mean annual air temperature: 46 to 79 degrees F
Frost-free period: 131 to 178 days
Farmland classification: All areas are prime farmland

Map Unit Composition
Penn and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Penn

Setting
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Fine-loamy residuum weathered from acid reddish shale, siltstone, and fine-grain sandstone

Typical profile

Ap - 0 to 9 inches: channery silt loam
Bt - 9 to 22 inches: channery silt loam
C - 22 to 30 inches: very channery loam
R - 30 to 80 inches: weathered bedrock

Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: 20 to 39 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 4.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Klinesville

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

Reaville

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

Bucks

Percent of map unit: 5 percent
Landform: Hills
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Convex
Hydric soil rating: No

PeoC—Penn channery silt loam, 6 to 12 percent slopes

Map Unit Setting

National map unit symbol: 1j52w
Elevation: 250 to 1,300 feet
Mean annual precipitation: 30 to 64 inches
Mean annual air temperature: 46 to 79 degrees F
Frost-free period: 131 to 178 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Penn and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Penn

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Fine-loamy residuum weathered from acid reddish shale, siltstone, and fine-grain sandstone

Typical profile

Ap - 0 to 8 inches: channery silt loam
Bt - 8 to 20 inches: channery silt loam
C - 20 to 25 inches: very channery silt loam
R - 25 to 80 inches: weathered bedrock

Properties and qualities

Slope: 6 to 12 percent
Depth to restrictive feature: 20 to 39 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Klinesville

Percent of map unit: 5 percent
Landform: Hills
Landform position (two-dimensional): Shoulder
Down-slope shape: Linear
Across-slope shape: Convex
Hydric soil rating: No

Reaville

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

Readington

Percent of map unit: 5 percent
Landform: Hillsides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

RedB—Readington silt loam, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: 1j534
Elevation: 300 to 1,000 feet
Mean annual precipitation: 30 to 64 inches
Mean annual air temperature: 46 to 79 degrees F
Frost-free period: 131 to 178 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Readington and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Readington

Setting

Landform: Hillsides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear

Parent material: Fine-loamy residuum weathered from acid red shale, siltstone, and fine-grain sandstone

Typical profile

Ap - 0 to 7 inches: silt loam
BA - 7 to 14 inches: silt loam
Bt - 14 to 26 inches: silt loam
Bx - 26 to 46 inches: silt loam
R - 46 to 80 inches: weathered bedrock

Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: 24 to 36 inches to fragipan; 39 to 60 inches to lithic bedrock
Drainage class: Moderately well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)
Depth to water table: About 18 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 5.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Abbottstown

Percent of map unit: 5 percent
Landform: Drainageways
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Hydric soil rating: No

Reaville, poorly drained

Percent of map unit: 5 percent
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

Croton

Percent of map unit: 5 percent
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

RorAt—Rowland silt loam, 0 to 2 percent slopes, frequently flooded

Map Unit Setting

National map unit symbol: 1j504
Elevation: 200 to 1,000 feet
Mean annual precipitation: 30 to 64 inches
Mean annual air temperature: 46 to 79 degrees F
Frost-free period: 131 to 178 days
Farmland classification: Farmland of local importance

Map Unit Composition

Rowland, frequently flooded, and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Rowland, Frequently Flooded

Setting

Landform: Flood plains
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Red and brown fine-loamy alluvium derived from sandstone and shale and/or conglomerate

Typical profile

A1 - 0 to 3 inches: silt loam
A2 - 3 to 10 inches: silt loam
B - 10 to 40 inches: silt loam
2C - 40 to 65 inches: Error

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)
Depth to water table: About 12 to 36 inches
Frequency of flooding: FrequentNone
Frequency of ponding: Frequent
Available water capacity: Moderate (about 7.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2w
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Birdsboro
Percent of map unit: 5 percent
Landform: Stream terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Riser
Down-slope shape: Linear
Across-slope shape: Convex
Hydric soil rating: No

Raritan, rarely flooded
Percent of map unit: 5 percent
Landform: Stream terraces
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Bowmansville, frequently flooded
Percent of map unit: 5 percent
Landform: Flood plains
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: Yes

WATER—Water

Map Unit Setting
National map unit symbol: ldsl
Mean annual precipitation: 30 to 64 inches
Mean annual air temperature: 46 to 79 degrees F
Frost-free period: 131 to 178 days
Farmland classification: Not prime farmland

Map Unit Composition
Water: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

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ATTACHMENT E

Vegetative Species List

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

Vegetation Identified Within
Block 79, Lots 4, 5, 6, 7, 8.01, &10
Township of Branchburg
Somerset County, New Jersey

		USACE Wetland Classification*		
SCIENTIFIC NAME	**COMMON NAME**	**AGCP**	**EMP**	**NCNE**
TREES				
Acer rubrum	Red Maple	FAC	FAC	FAC
Acer saccharum	Sugar Maple	FACU	FACU	FACU
Betula nigra	River Birch	FACW	FACW	FACW
Juniperus virginiana	Eastern Red-Cedar	FACU	FACU	FACU
Liriodendron tulipifera	Tuliptree	FACU	FACU	FACU
Morus sp.	Mulberry sp.	-	-	-
Nyssa sylvatica	Blackgum	FAC	FAC	FAC
Prunus serotina	Black Cherry	FACU	FACU	FACU
Salix nigra	Black Willow	OBL	OBL	OBL
SHRUBS/VINES				
Celastrus orbiculatus	Asian Bittersweet	FACU	FACU	UPL
Elaeagnus angustifolia	Russian-Olive	FACU	FACU	FACU
Elaeagnus umbellata	Autumn Olive	-	-	-
Hamamelis virginiana	American Witch-Hazel	FACU	FACU	FACU
Lonicera japonica	Japanese Honeysuckle	FACU	FACU	FACU
Parthenocissus quinquefolia	Virginia-Creeper	FACU	FACU	FACU
Persicaria perfoliata	Asiatic Tearthumb	FAC	FAC	FAC
Rosa multiflora	Multiflora rose	FACU	FACU	FACU
Rubus sp.	Blackberry sp.	-	-	-
Toxicodendron radicans	Eastern Poison Ivy	FAC	FAC	FAC
Vitis labrusca	Fox Grape	FAC	FACU	FACU
HERBS				
Alliaria petiolata	Garlic-Mustard	FACU	FACU	FACU
Allium vineale	Field Garlic	FACU	FACU	FACU
Alopecurus pratensis	Field Meadow-Foxtail	FAC	FACW	FAC
Apocynum cannabinum	Dogbane	FACU	FACU	FAC
Artemisia vulgaris	Mugwort	UPL	UPL	UPL
Asclepias incarnata	Swamp Milkweed	OBL	OBL	OBL
Asclepias syriaca	Common Milkweed	UPL	FACU	UPL
Barbarea vulgaris	Garden Yellow-Rocket	FAC	FACU	FAC
Boehmeria cylindrica	Small-Spike False Nettle	FACW	FACW	OBL
Carex scoparia	Pointed Broom Sedge	FACW	FACW	FACW

Carex stricta	Tussock Sedge	OBL	OBL	OBL
Cyperus esculentus	Yellow nutsedge	FAC	FACW	FACW
Dactylis glomerata	Orchard Grass	FACU	FACU	FACU
Daucus carota	Queen Anne's-Lace	UPL	UPL	UPL
Deschampsia caespitosa	Tufted Hair Grass	FACW	FACW	FACW
Dichanthelium clandestinum	Deer-Tongue Rosette Grass	FACW	FAC	FACW
Juncus effusus	Soft rush	OBL	FACW	OBL
Juncus tenuis	Path rush	FAC	FAC	FAC
Microstegium vimineum	Japanese Stilt Grass	FAC	FAC	FAC
Onoclea sensibilis	Sensitive Fern	FACW	FACW	FACW
Penstemon digitalis	Foxglove Beardtongue	FAC	FAC	FAC
Persicaria perfoliata	Asiatic Tearthumb	FAC	FAC	FAC
Persicaria sagittata	Arrow-Leaf Tearthumb	OBL	OBL	OBL
Phalaris arundinacea	Reed Canary Grass	OBL	FACW	FACW
Phleum pratense	Common Timothy	FACU	FACU	FACU
Phragmites australis	Common Reed	FACW	FACW	FACW
Plantago lanceolata	English Plantain	FACU	UPL	FACU
Plantago major	Great Plantain	FAC	FACU	FACU
Polygonum sp.	Knotweed sp.	-	-	-
Pycnanthemum tenuifolium	Narrow-Leaf Mountain-Mint	FACW	FACW	FAC
Reynoutria japonica	Japanese-Knotweed	UPL	FACU	FACU
Rubus idaeus	Common Red Raspberry	FACU	FAC	FACU
Securigera varia	Crown Vetch	-	-	-
Solanum carolinense	Carolina Horse-Nettle	FACU	FACU	FACU
Solidago canadensis	Canadian Goldenrod	FACU	FACU	FACU
Solidago sp.	Goldenrod sp.	-	-	-
Taraxacum officinale	Common Dandelion	FACU	FACU	FACU
Tridens flavus	Tall Redtop	FACU	FACU	UPL
Trifolium arvense	Rabbit-foot clover	-	-	-
Trifolium repens	White Clover	FACU	FACU	FACU
Verbascum thapsus	Common Mullein	FACU	FACU	UPL
Vernonia noveboracensis	New York Ironweed	FACW	FACW	FACW

*Classification Key

OBL - Obligate Wetland	Almost always occur in wetlands
FACW - Facultative Wetland	Usually occur in wetlands, but may occur in non-wetlands
FAC - Facultative	Occur in wetlands and non-wetlands
FACU - Facultative Upland	Usually occur in non-wetlands, but may occur in wetlands
UPL - Obligate Upland	Almost never occur in wetlands
-= Not listed	

AGCP =	Atlantic and Gulf Coastal Plain Region
EMP =	Eastern Mountains and Piedmont Region
NCNE =	Northcentral and Northeast Region

ATTACHMENT F

Natural Heritage Program Response
(to be provided upon receipt)

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

ATTACHMENT G

Qualifications of Preparers

EcolSciences, Inc.
Environmental Management & Regulatory Compliance

DAVID P. MOSKOWITZ, Ph.D., PWS

EDUCATION:

Ph.D. 2016 - Entomology
Rutgers University, New Brunswick, N.J.

M.S. 2000 - Environmental Policy Studies
New Jersey Institute of Technology, Newark, N.J.

B.A. 1984 - Environmental Studies
George Washington University, Washington, D.C.

PROFESSIONAL AFFILIATIONS:

Society of Wetland Scientists
Entomological Society of America
American Entomological Society
Lepidopterists' Society

PROFESSIONAL CERTIFICATIONS:

Professional Wetland Scientist - SWS
Certified Wetland Delineator - Corps of Engineers
USEPA Wetland Delineation - WTI
Qualified Ornithologist - NJDEP
Qualified Bog Turtle Surveyor – USFWS (NJ, NY, PA, DE, MD)

OTHER:

East Brunswick Environmental Commission, Chair
Co-Founder – National Moth Week; Global Citizen Science
Founder – Bug Addiction Confessions of a Bug Addict (Facebook)
Administrator: Rutgers Entomology Facebook Page
Administrator: National Moth Week Facebook Page
Administrator: National Moth Week – Caterpillars Facebook Page
Wetland Journal Technical Review Board (2000-2002)
SWS Certification Review Panel (1998-2001)
USFWS N.J. Breeding Bird Survey Coordinator (1995-1997)
Roadside and Forage Pollinator Taskforce – North American Pollinator Protection Campaign

EXPERIENCE:

Dr. Moskowitz is a Senior Vice President with EcolSciences, Inc. During the past 34 years, Dr. Moskowitz has conducted more than 7,500 environmental studies for a wide range of clients including government agencies, and the development, legal, engineering and financial professions. These studies have focused on wetland and wildlife issues including delineations, field surveys, mitigation and regulatory compliance as well as Phase I, Phase II and Brownfields Redevelopment. Dr. Moskowitz has also provided expert testimony before numerous municipal boards and the New Jersey Meadowlands Commission and has been qualified as an expert in Superior Court of New Jersey, New Jersey Office of Administrative Law, New Jersey Condemnation Commission, and the Morris County Board of Taxation. Dr. Moskowitz has published widely on wildlife and wetland related topics in both peer-reviewed and popular forums. His insect photographs have also been published both in articles and on the cover of magazines and journals. Dr. Moskowitz has a PhD in Entomology from Rutgers University and his

Dissertation focused on the Life History of the Tiger Spiketail Dragonfly (Cordulegaster erronea). Dr. Moskowitz will be teaching Special Topics in Entomology in Fall, 2018 on "Communicating Entomology via Social Media" at Rutgers University.

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Wikelski, M., Moxley, C. Eaton-Mordas, J., Lopez-Uribe, A. Margarita M., Holland, R., Moskowitz, D., Roubik, Ward, D. and R. Kays. 2010. Large-range movements of neotropical orchid bees observed via radio telemetry. PloSOne 5(5). e10738. doi:10.1371/journal.pone.0010738.

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Moskowitz, D. 2019. The History of the Rutgers Insect Collection – A New Jersey Treasure Saved Twice (1888-2019). New Jersey Studies. 5(2): 185-245.

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Publications in Preparation

Moskowitz, D. and M. L. May. Mate Recognition and Mating in the Tiger Spiketail Dragonfly (*Cordulegaster erronea* Hagen) (Odonata; Anisoptera).

Moskowitz, Levinson and McMenamin. Historical Pesticide Purchases for A New Jersey Apple Orchard from 1931-1936 and 1943-1945 With Notes on Remnant Pesticide Concentrations in Soil. In Review: Submitted to New Jersey Studies.

Photographic Credits

Monarch Butterfly Cover - Northeastern Naturalist 2001.
Dolichoderus mariae (Ant Colony) – Cover American Entomologist – Fall 2012 (58:3)
Hemaris thysbe (Hummingbird Clearwing Moth) - Cover American Entomologist - Fall 2011 (57:3)
Paranthrene simulans (Hornet Clearwing Moth) - Cover American Entomologist – Fall 2016 (62:3)
Isa textula (Crowned Slug Moth) – Cover American Entomologist – Winter 2016
Wavy-lined Emerald Moth Caterpillar (*Synchlora aerata*) – Plate 7: Moths, Myths, and Mosquitoes: The Eccentric Life of Harrison G. Dyar, Jr. By Marc Epstein. Oxford University Press: 2016.
Cicindela tranquebarica (Oblique-lined Tiger Beetle photographed on snow) – Cover Cicindela – March-June 2016 (48:1-2).
Overwintering Monarchs at El Rosario Monarch Sanctuary, Mexico. Minding Our Monarchs. Wisconsin Natural Resources Magazine. August 2017.

Recent Presentations

Fostering public participation in entomology through social media; Lessons from "Bug Addiction – Confessions of a Bug Addict". 103rd Annual New Jersey Mosquito Control Association Meeting: March 2016, Atlantic City, New Jersey.

The life history, behavior and conservation of the tiger spiketail dragonfly (*Cordulegaster erronea* Hagen) in New Jersey with notes on radiotelemetry studies Session: Contributed Papers: Ecology and Population Dynamics: Sampling. 2016 XXV International Congress of Entomology, Orlando, Florida.

Moths of New Jersey. Mercer County Master Gardeners.

Additional Advanced Training

Identification of Sedges and Rushes - Rutgers University
Field Identification of Raptors - University of Maine/Eagle Hill – Humboldt Field Research Station
Field Identification of Raptors – New Jersey Audubon Society/CMBO
Identification of Adult Dragonflies - University of Maine/Eagle Hill – Humboldt Field Research Station
Identification of Larval Dragonflies - University of Maine/Eagle Hill – Humboldt Field Research Station

Systematics & Conservation of Lepidoptera - University of Maine/Eagle Hill – Humboldt Field Research Station
Identification of Microlepidoptera – University of Maine/Eagle Hill – Humboldt Field Research Station

DANIEL BRILL

EDUCATION: *B.A., 1996 – Environmental Studies*
Richard Stockton College
Galloway, New Jersey

EMPLOYMENT: *EcolSciences, Inc. (2001-present)*

AREAS OF EXPERTISE: *Threatened & Endangered Species Habitat Assessments and Surveys*
Geographic Information Systems

PROFESSIONAL CERTIFICATIONS: *Rutgers Cook College Office of Continuing Professional Education - Professional Certificate Program in Geomatics*
Birder Certification Online – Certification Level 3, Bird Conservation Regions 28, 29 & 30 (www.birdercertification.org/)

EXPERIENCE:
Mr. Brill is presently a Senior Environmental Scientist with EcolSciences, Inc. with over 17 years of experience with the company. His particular specialties are in threatened and endangered species studies and the use of Geographic Information Systems (GIS) software as an instrument of environmental analysis.

Mr. Brill has been a birder for over 25 years with 360 bird species observed in New Jersey. He is knowledgeable in their habitats, distribution, and seasonal occurrence. With regards to GIS, Mr. Brill is well-versed in the methodology and species models used to assemble the NJDEP Landscape Project critical habitat map from Versions 1.0 through 3.3.

Prior to his employment with EcolSciences, Mr. Brill was an educator at the Cattus Island Cooper Environmental Center with Ocean County Parks and Recreation and has volunteered with the New Jersey Department of Environmental Protection and New Jersey Audubon Society.

Selected Bird Studies
Contribute to the design, implementation, documentation, and analysis of habitat evaluations and surveys of endangered, threatened, special concern, and other birds. Such studies include:

- Lead Bald Eagle monitor 2012-2014 on a multi-year Public Service Electric & Gas (PSE&G) overhead transmission line right-of-way (ROW) construction project in northern New Jersey in accordance with United States Fish and Wildlife Service (USFWS) permit conditions. Three eagle territories in Morris County were in close proximity to construction activities that included intense helicopter use.

- Bald Eagle monitor 2014-2015 at Lake Tappan in Rockland County, New York. A proposed helicopter pad at a corporate facility would be located 1,200 feet from an active nest. EcolSciences prepared a Habitat Assessment Report concluding that measures such as minimizing flights for emergency purposes only and maintaining a 1,000-foot flight buffer from the nest at all times would likely not result in a "take" of Bald Eagle. Therefore, no permit was required from the New York Department of Environmental Conservation (NYSDEC) pursuant to the New York State Endangered Species Act.

- Bald Eagle monitor 2014-2019 of a pair that nested on the site of a previously approved residential development at Lake Hopatcong. A take permit was obtained from USFWS. There was no lost productivity from this eagle pair as a result of the development, with young successfully fledged each year from both the on-site nest (even during land clearing and construction activities) and later a second nest less than one half mile away.

- Investigated a suspected alternate Bald Eagle nest located immediately adjacent to the site of a proposed residential development in Schuylkill Township, Pennsylvania. The nest was likely attributable to an eagle pair with an active nest located on the opposite side of a reservoir and in close proximity to an occupied office building. EcolSciences successfully convinced USFWS that the local eagle pair are acclimated to nearby human activity and that the proposed development would not negatively impact the potential future usage of the alternate nest nor the reservoir as foraging habitat. As such, the proposed development did not require an eagle take permit.

- Avian monitor April – July 2014 at a ROW construction project on the Raritan Estuary in Middlesex County as required in a NJDEP Waterfront Development Permit. Work activities approached multiple Osprey nests. Several other State-listed birds were observed in the work area including Black-crowned Night-heron, American Bittern, Bald Eagle, Northern Harrier, Least Tern, and Black Skimmer.

- Breeding bird survey of two dredge disposal areas totaling approximately 500 acres along the Delaware River. The survey was conducted to address a special condition of a NJ Department of Environmental Protection (NJDEP) issued Waterfront Development Permit limiting activities including the placement of dredged material inside the disposal areas March 15 through July 31 to avoid and minimize impacts to nesting birds and prevent impacts to nesting Bald Eagles. A small fraction of the 94 bird species identified during the survey likely nested within the disposal areas. Based on the survey results and site conditions within the disposal areas, EcolSciences determined a plan could be developed to eliminate the timing restrictions.

- Helped conduct a bird/radio tower collision study at five 300 to 400-foot high towers in the New Jersey Meadowlands during the spring and fall migrations in 2004. A total of 108 bird species were observed and feathers or other parts of twelve bird species were located beneath the towers or guy wires.

- Conducted a grassland bird survey on over 500 acres of hayfields surrounding a corporate facility in Hunterdon County. Three obligate grassland birds (Savannah Sparrow, Grasshopper Sparrow, and Bobolink) were found nesting here.

- Other avian studies of raptors such as Red-shouldered Hawk, Cooper's hawk, and Barred Owl; grassland species including Upland Sandpiper, Horned Lark, and Vesper Sparrow; wading birds like Black-crowned Night-heron, Yellow-crowned Night-heron, and Great Blue Heron; secretive marsh birds such as Pied-billed Grebe, Virginia Rail, Sora, Common Gallinule, Least Bittern, and American Bittern; and other birds such as Red-headed Woodpecker and Golden-winged Warbler.

Geographic Information Systems

Almost all projects have a geographic component that can be expressed via maps. Geographic Information Systems software has been used to:

- Quickly determine and effectively communicate potential environmental constraints on a given site including critical wildlife habitat.

- Plot results of wildlife species surveys, establish and quantify critical nesting and foraging habitat according to peer-reviewed models, and develop species management strategies.

- Analyze land use/land cover change over time in areas with records of threatened and endangered birds such as Bald Eagle, Black-crowned Night-heron, Barred Owl, and Red-headed Woodpecker.

Other Applicable Experience

- Co-authored an Avian Survey Protocol for the PSE&G overhead transmission ROWs. The objective of the protocols is to provide a consistent framework in which to survey and evaluate habitat for birds addressed in the Utility ROW No Harm Best Management Practices (BMPs) developed by the NJ Endangered and Nongame Species Program (ENSP) ahead of scheduled vegetation maintenance activities. Data collected will be reviewed by PSE&G environmental managers, who will authorize relief from seasonal restrictions listed in the BMPs where warranted.

- Participated in a panel assembled by ENSP to assess or reassess the status of over 170 bird species occurring in New Jersey. This was accomplished via the Delphi Technique that entailed five rounds of voting and considered materials provided by ENSP and comments and expert opinions of panel members.

- Presented at the Endangered and Nongame Species Advisory Committee meeting September 21, 2010 as part of a gathering of various users of the NJDEP Landscape Project critical wildlife habitat map to discuss its application, strengths, limitations, and suggested improvements.

- Assisted the annual Sandy Hook Hawk Watch for New Jersey Audubon Society in spring of 2000 and 2001. Fifteen or more species of diurnal raptors can be expected at this location.

- Project assistance for Neotropical Passerine Critical Areas: Pinelands Survey (Landscape Project for Protection of Rare Species). The objective of this 1999 NJDEP-sponsored study was to determine the distribution, abundance, and habitat characteristics of neotropical birds and other observed species.

- Participation in the New Jersey Breeding Bird Atlas with data contributed towards *Birds of New Jersey* (Walsh, Elia, Kane, and Halliwell, 1999) published by the New Jersey Audubon Society. Work involved identifying and recording all breeding bird species and observed behaviors in predetermined survey blocks.

- Present volunteer monitor of a nesting pair of State-endangered Peregrine Falcons in New Brunswick.

- Submitted multiple ENSP Rare Wildlife Sighting Report forms documenting observations of endangered, threatened, and special concern birds.

- Frequent contributor to eBird, submitting multiple rare and unusual local records.

- Present coordinator of the Assunpink Christmas Bird Count (CBC). Participant in other CBCs.

MICHAEL J. LEVINSON, PWS

EDUCATION:

M.S., 2018– Biology: Ecology and Evolution
Montclair State University, Montclair, N.J.
Thesis: Impacts of Drainage Basin Characteristics on Macroinvertebrate Communities in the Upper Passaic River

B.S., 2008 – Environmental Science,
Concentration in Pollution Science
Cook College, Rutgers University, New Brunswick, N.J.

AREAS OF EXPERTISE:

Regulatory Assessments and Constraints Analysis
Wetland Delineations & Regulatory Review
Threatened & Endangered Species Survey & Studies
Environmental Impact Assessment
Construction Monitoring & Management
Geographic Information System Software Projects

PROFESSIONAL CERTIFICATIONS:

Professional Wetland Scientist – Society of Wetland Scientists
Wetland Delineation Certificate – Rutgers University OCPE
OSHA 40 Hour HAZWOPER

PROFESSIONAL ASSOCIATIONS:

Member of the Society of Wetland Scientists

EXPERIENCE:

Mr. Levinson is a Senior Project Manager with EcolSciences, Inc. and has more than ten years of environmental experience. Mr. Levinson has managed and participated in a wide variety of projects related to: wetland delineation, wetland mitigation, land use permitting, environmental impact assessment & statement preparation and threatened & endangered species surveys. Additionally, Mr. Levinson is experienced in conducting site investigation (phase I and phase II), sampling of hazardous materials and the remedial investigation of contaminated sites. He has worked on a variety of projects and is familiar with local, state and federal regulations throughout the country and has used his skills in GIS mapping, regulatory compliance, and permit application preparation in order to assure that clients comply with all applicable regulations.

A summary of Mr. Levinson's relevant experience includes:

- Wetland delineations based on the Federal Manual three-parameter approach using indicators of hydrophytic vegetation, hydric soils, and wetland hydrology.

- Preparation of Environmental Impact Statements, Letters of Interpretation, Transition Area Waivers, General / Individual Permits, CAFRA / Waterfront Development Permits and U.S. Army Corps permits for numerous development projects throughout NJ.

- Preliminary environmental studies, permitting, construction monitoring and site inspections for major electric and gas utility maintenance, upgrade and construction projects.

- Phase I, II and III habitat evaluations and surveys for the Federally-threatened and State-endangered bog turtle (Glyptemys muhlenbergii) in NJ, NY and PA.

- Coordinate and assist with field surveys for the State-endangered blue-spotted salamander (Ambystoma laterale), northern goshawk (Accipiter gentiles), red-shouldered hawk (Buteo lineatus), timber rattlesnake (Crotalus horridus) and southern gray treefrog (Hyla chrysoscelis), and the State-threatened red-headed woodpecker (Melanerpes erythrocephalus), barred owl (Strix varia), wood turtle (Glyptemys insculpta), northern pine snake (Pituophis melanoleucus melanoleucus) and pine barrens treefrog (Hyla andersonii) on proposed development properties throughout New Jersey.

- Coordinate and assist with field surveys for rare plants including, among many others, the Federally-endangered northeastern bulrush (Scirpus ancistrochaetus), the Federally-threatened small whorled pogonia (Isotria medeoloides) and swamp pink (Helonias bullata) and the NJ Pinelands Commission listed little ladies' tresses (Spiranthes tuberosa).

- Vernal habitat surveys in accordance with survey protocols developed by the NJDEP and the New York State Department of Environmental Conservation (NYSDEC).

SHEET 003

SHEET 006

CASE ROAD

SHEET 004

SHEET 005

SOUTH BRANCH ROAD (ROUTE 567)

LEGEND

- EXISTING CONTOUR (INDEX) — 1400
- EXISTING CONTOUR (INTERMEDIATE)
- PROPERTY BOUNDARY
- EXISTING FENCE — X
- EXISTING STRUCTURE
- EDGE OF ROAD
- CENTERLINE OF ROAD
- EXISTING GAS LINE — G
- EXISTING UNDERGROUND ELECTRIC — E
- EXISTING WATERBODY
- EXISTING WETLAND
- EXISTING POWER LINE — P
- EXISTING TREE LINE
- WETLAND SAMPLE POINT
- LIMIT OF LOI

REFERENCES:
1. EXISTING 2-FOOT CONTOURS PROVIDED BY WILLIAMS 10/13/2020.
2. HORIZONTAL DATUM BASED ON NEW JERSEY STATE PLANE, DATUM NAD83.
3. VERTICAL DATUM BASED ON NORTH AMERICAN DATUM OF 1988, NAVD88.
4. ENVIRONMENTAL DELINEATIONS PERFORMED BY ECOLSCIENCES, INC MAY, JULY, SEPTEMBER, AND OCTOBER 2020.

SCALE: 1" = 200'
200 0 200 400

CLIENT
TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
2800 POST OAK BOULEVARD
HOUSTON, TEXAS 77251

GAI DRAWING NUMBER: 001

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LOI PLAN

PROJECT
EXISTING COMPRESSOR STATION 505
& CENTERVILLE REGULATOR
SOMERSET COUNTY
NEW JERSEY 08853

GAI consultants

ALT. CLIENT DRAWING NUMBER:

GAI FILE NUMBER:
C191318-20-000-00-WS-SETUP

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	B.GOOD
REVISION	SHEET NO.:
	001 OF 006

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505–W1		
LINE #	BEARING	DISTANCE
W1–L1	N39°26'32"W	38.46'
W1–L2	N50°51'22"W	43.82'
W1–L3	N24°08'24"W	43.29'
W1–L4	N22°57'01"W	40.35'
W1–L5	N44°04'21"W	50.51'
W1–L6	N33°35'47"W	70.46'
W1–L7	N46°08'59"W	50.35'
W1–L8	N38°57'42"W	58.18'
W1–L9	N51°59'29"W	68.46'
W1–L10	N43°38'29"W	64.34'
W1–L11	N52°14'52"W	31.00'
W1–L12	N36°49'25"W	36.26'
W1–L13	S60°21'25"W	24.36'
W1–L14	S48°38'27"W	23.15'
W1–L15	N29°40'37"E	316.02'
W1–L16	N28°01'54"E	59.91'
W1–L17	N68°49'12"E	38.21'
W1–L18	N77°26'08"E	71.95'
W1–L19	N61°59'39"E	59.60'
W1–L20	N48°51'14"E	56.31'
W1–L21	N65°06'27"E	37.72'
W1–L22	N77°27'44"E	64.30'
W1–L23	S67°50'01"E	33.01'
W1–L24	S01°33'12"W	45.67'
W1–L25	N88°59'58"W	32.28'
W1–L26	S47°33'44"W	58.65'
W1–L27	S16°34'30"W	32.78'
W1–L28	S74°01'21"W	43.34'
W1–L29	S65°13'45"W	62.38'
W1–L30	S88°21'23"W	48.36'
W1–L31	S76°54'27"W	49.68'
W1–L32	S49°36'24"W	67.81'
W1–L33	S44°47'35"W	63.12'
W1–L34	S15°45'46"W	49.21'
W1–L35	S23°49'31"W	48.54'
W1–L36	S63°26'51"E	45.73'
W1–L37	S62°14'33"E	55.59'
W1–L38	S24°06'08"E	34.90'
W1–L39	S07°34'21"E	26.09'
W1–L40	S48°44'04"E	26.08'
W1–L41	S13°48'58"E	26.32'
W1–L42	S08°50'48"E	34.57'
W1–L43	S44°10'28"E	60.73'
W1–L44	S57°17'52"E	69.38'
W1–L45	S22°14'12"E	66.03'
W1–L46	S24°03'47"E	139.21'
W1–L47	S37°12'30"E	36.20'
W1–L48	S37°26'25"W	39.62'

505–W2		
LINE #	BEARING	DISTANCE
W2–L1	S01°23'45"W	64.82'
W2–L2	S50°40'12"W	32.74'
W2–L3	N65°11'01"W	17.57'
W2–L4	N49°16'44"E	27.02'
W2–L5	N22°45'19"E	30.88'
W2–L6	N18°01'06"E	33.73'

505–W3		
LINE #	BEARING	DISTANCE
W3–L1	N73°26'46"E	26.68'
W3–L2	N78°40'03"E	45.91'
W3–L3	S02°38'58"E	53.79'
W3–L4	S19°32'11"W	25.77'
W3–L5	S10°44'21"W	55.86'
W3–L6	S05°36'29"E	57.53'
W3–L7	S36°33'27"W	51.76'
W3–L8	S15°19'38"W	46.62'
W3–L9	S08°30'38"W	41.98'
W3–L10	S15°29'58"W	35.94'
W3–L11	S30°24'28"W	13.61'
W3–L12	S08°31'48"E	27.44'
W3–L13	S00°26'31"W	33.91'
W3–L14	S05°39'13"W	41.46'
W3–L15	S07°49'11"E	37.38'
W3–L16	S32°31'35"W	27.38'
W3–L17	S65°59'44"W	28.38'
W3–L18	N37°25'03"W	9.33'
W3–L19	N25°10'53"E	42.89'
W3–L20	N10°26'01"E	37.05'
W3–L21	N22°28'34"W	27.61'
W3–L22	N03°20'07"W	48.31'
W3–L23	N18°41'34"W	34.73'
W3–L24	N00°47'19"E	41.54'
W3–L25	N09°48'14"E	43.15'
W3–L26	N34°00'21"E	36.33'
W3–L27	N46°27'18"E	45.17'
W3–L28	N32°21'43"E	41.51'
W3–L29	N10°17'48"E	38.80'
W3–L30	N03°51'26"E	30.14'
W3–L31	N02°38'36"W	17.70'
W3–L32	N06°05'08"W	35.67'
W3–L33	N32°30'25"W	26.87'
W3–L34	N80°53'12"W	26.59'
W3–L35	N05°13'02"E	4.01'

505–W4		
LINE #	BEARING	DISTANCE
W4–L1	N84°10'57"W	29.33'
W4–L2	N59°41'41"W	56.86'
W4–L3	N63°46'45"W	56.07'
W4–L4	N12°50'27"E	25.93'
W4–L5	N65°53'45"W	50.83'
W4–L6	N42°29'56"W	32.63'
W4–L7	N26°04'18"W	21.28'
W4–L8	N40°24'55"E	21.29'
W4–L9	S68°16'09"E	32.64'
W4–L10	S62°03'53"E	49.58'
W4–L11	S50°56'17"E	98.52'
W4–L12	S46°47'29"E	32.85'
W4–L13	S46°45'09"E	18.91'
W4–L14	S03°01'48"W	29.07'

505–W5		
LINE #	BEARING	DISTANCE
W5–L1	S88°04'10"E	43.05'
W5–L2	S74°54'57"E	25.64'
W5–L3	S32°16'09"E	47.52'

505–W6		
LINE #	BEARING	DISTANCE
W6–L1	N89°04'48"W	11.89'
W6–L2	N55°12'10"E	82.17'
W6–L3	N63°22'14"E	48.38'
W6–L4	N55°48'47"E	40.74'
W6–L5	N55°16'31"E	61.45'
W6–L6	N56°30'58"E	43.15'
W6–L7	N73°05'10"E	30.26'
W6–L8	N56°01'32"E	78.00'
W6–L9	N56°08'48"E	53.76'
W6–L10	N27°44'31"E	16.84'
W6–L11	N44°09'12"W	41.94'
W6–L12	S78°42'18"W	39.42'
W6–L13	S83°01'40"W	48.27'
W6–L14	S60°17'15"W	49.30'
W6–L15	N32°20'30"E	1.17'
W6–L16	N32°05'29"E	22.91'
W6–L17	N68°43'06"E	52.29'
W6–L18	S81°38'39"E	35.87'
W6–L19	N50°03'53"E	51.07'
W6–L20	N39°33'39"E	49.95'
W6–L21	N17°30'33"W	33.98'
W6–L22	N54°13'30"W	41.15'
W6–L23	N29°41'58"E	52.38'
W6–L24	N14°59'50"E	35.66'
W6–L25	N56°09'16"E	36.70'
W6–L26	N39°08'21"W	38.37'
W6–L27	N12°05'42"E	43.11'
W6–L28	N70°37'24"E	19.72'
W6–L29	S81°05'10"E	47.53'
W6–L30	S51°21'36"E	41.17'
W6–L31	S03°53'41"E	40.82'
W6–L32	S14°04'43"W	66.13'
W6–L33	S59°36'53"W	41.17'
W6–L34	S00°52'38"W	29.28'
W6–L35	S46°57'24"E	35.31'
W6–L36	N87°53'34"E	69.59'
W6–L37	N68°28'28"E	59.42'
W6–L38	N49°46'22"E	44.15'
W6–L39	S61°56'51"E	28.37'
W6–L40	N57°29'32"E	83.38'

505–W7		
LINE #	BEARING	DISTANCE
W7–L1	S52°00'05"W	18.80'
W7–L2	S18°51'18"W	34.52'
W7–L3	S31°51'53"E	35.19'
W7–L4	N18°52'01"W	27.24'
W7–L5	N18°31'40"E	50.99'

505–S1		
LINE #	BEARING	DISTANCE
S1–L1	S56°10'06"E	53.03'
S1–L2	S56°11'27"E	0.06'
S1–L3	S63°54'35"E	59.38'
S1–L4	S63°54'31"E	7.76'
S1–L5	S75°45'10"E	14.23'
S1–L6	S75°45'08"E	47.30'
S1–L7	N88°06'01"E	20.50'
S1–L8	N88°06'02"E	40.07'
S1–L9	N75°38'39"E	14.56'
S1–L10	N75°38'40"E	21.28'
S1–L11	N58°42'54"E	63.47'
S1–L12	N57°26'09"E	26.87'
S1–L13	N57°26'11"E	26.60'
S1–L14	N54°41'58"E	25.39'
S1–L15	N54°41'58"E	24.10'
S1–L16	N88°10'59"E	34.98'
S1–L17	N88°10'55"E	13.67'
S1–L18	N60°06'49"E	51.49'
S1–L19	N83°01'40"E	48.27'
S1–L20	N78°42'18"E	39.42'
S1–L21	S44°09'12"E	11.95'
S1–L22	S44°09'13"E	30.00'
S1–L23	S27°18'11"W	11.14'
S1–L24	S27°18'19"W	5.30'
S1–L25	S56°08'48"W	53.76'
S1–L26	S55°50'36"W	46.56'
S1–L27	S55°50'34"W	31.61'
S1–L28	S73°05'10"W	30.26'
S1–L29	S56°30'58"W	43.15'
S1–L30	S55°16'31"W	32.08'
S1–L31	S55°16'30"W	29.36'
S1–L32	S55°48'48"W	27.31'
S1–L33	S55°48'46"W	13.43'
S1–L34	S63°22'14"W	24.56'
S1–L35	S63°22'14"W	23.81'
S1–L36	S55°12'10"W	82.17'
S1–L37	S22°34'04"W	16.37'
S1–L38	S22°34'01"W	11.76'
S1–L39	S18°52'02"E	27.24'
S1–L40	S18°31'40"W	50.99'
S1–L41	S23°48'54"W	67.66'
S1–L42	S31°23'08"W	0.17'
S1–L43	S31°20'06"W	42.25'
S1–L44	N65°02'03"W	74.50'
S1–L45	N58°45'28"W	104.11'
S1–L46	N57°53'44"W	79.89'
S1–L47	N54°55'16"W	96.57'
S1–L48	N53°25'55"W	37.09'
S1–L49	N13°14'44"W	17.90'
S1–L50	N21°23'56"E	41.50'
S1–L51	N29°45'25"E	42.42'
S1–L52	N36°26'02"E	36.64'
S1–L53	N81°30'21"E	22.76'
S1–L54	S65°11'01"E	17.57'
S1–L55	N50°40'12"E	32.74'
S1–L56	N01°23'44"E	64.82'
S1–L57	N10°00'21"E	20.33'
S1–L58	S73°07'22"E	20.51'
S1–L59	S60°13'25"E	31.00'

CLIENT
TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
2800 POST OAK BOULEVARD
HOUSTON, TEXAS 77251

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LOI PLAN

PROJECT
EXISTING COMPRESSOR STATION 505
& CENTERVILLE REGULATOR
SOMERSET COUNTY
NEW JERSEY 08853

ALT./CLIENT DRAWING NUMBER:

GAI FILE NUMBER:
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gai consultants

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	002 OF **006**

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EDGE OF ROAD

CENTERLINE OF ROAD

BOUNDARY MARKER

BOUNDARY MARKER

CASE RD.
APPARENT 33' R/W

BOUNDARY MARKER

EXISTING TREE LINE

EXISTING WETLAND 505-W1
83,242 S.F.

BLOCK 79,
LOT 10

BLOCK 79,
LOT 4

BLOCK 79,
LOT 5

BLOCK 79,
LOT 6

MATCHLINE SHEET 006

B-01

B-02

B-09

BOUNDARY MARKER

BOUNDARY MARKER

BOUNDARY MARKER

EXISTING FENCE

DEBRIS PILE

EXISTING POWER LINE

TOP OF BANK

TOE OF SLOPE

EXISTING
STRUCTURE

EDGE OF GRAVEL

EDGE OF GRAVEL

MATCHLINE SHEET 004

SCALE: 1" = 50'

50 0 50 100

DRAWING TITLE
LOI PLAN

PROJECT
EXISTING COMPRESSOR STATION 505
& CENTERVILLE REGULATOR
SOMERSET COUNTY
NEW JERSEY 08853

GAI FILE NUMBER: **C191318-20-000-00-WS-SETUP**

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COMPANY LLC
2800 POST OAK BOULEVARD
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	B.GOOD
REVISION	SHEET NO.:
	003 OF **006**

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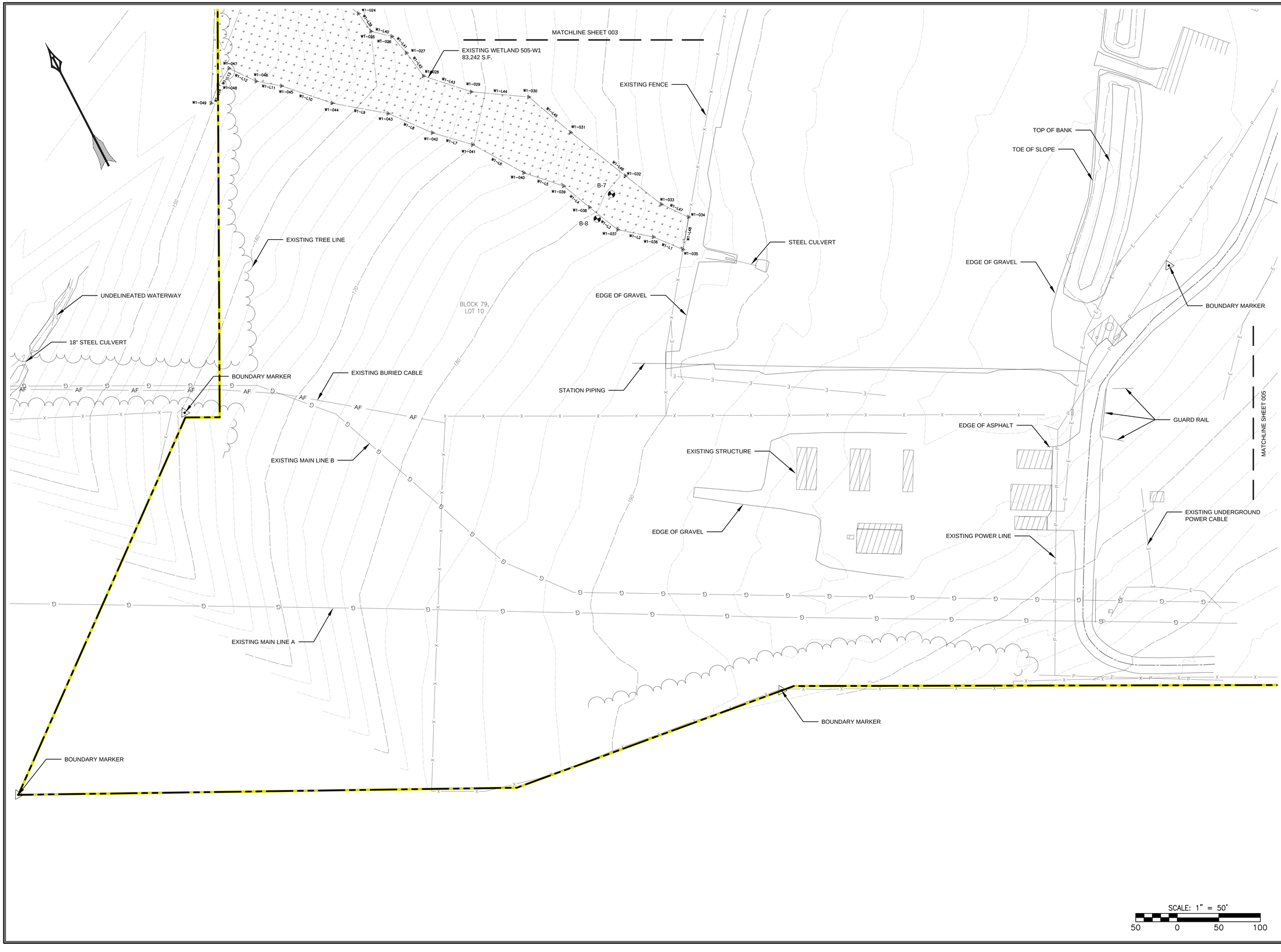

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TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
2800 POST OAK BOULEVARD
HOUSTON, TEXAS 77251

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DRAWING TITLE
LOI PLAN

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SOMERSET COUNTY
NEW JERSEY 08853

gai consultants
Pittsburgh | 385 E. Waterfront Drive, Homestead, PA 15120

ALT./CLIENT DRAWING NUMBER:

GAI FILE NUMBER:
C191318-20-000-00-WS-SETUP

ISSUING OFFICE: Pittsburgh

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AS SHOWN	**B.GOOD**
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	B.GOOD
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	004 OF **006**

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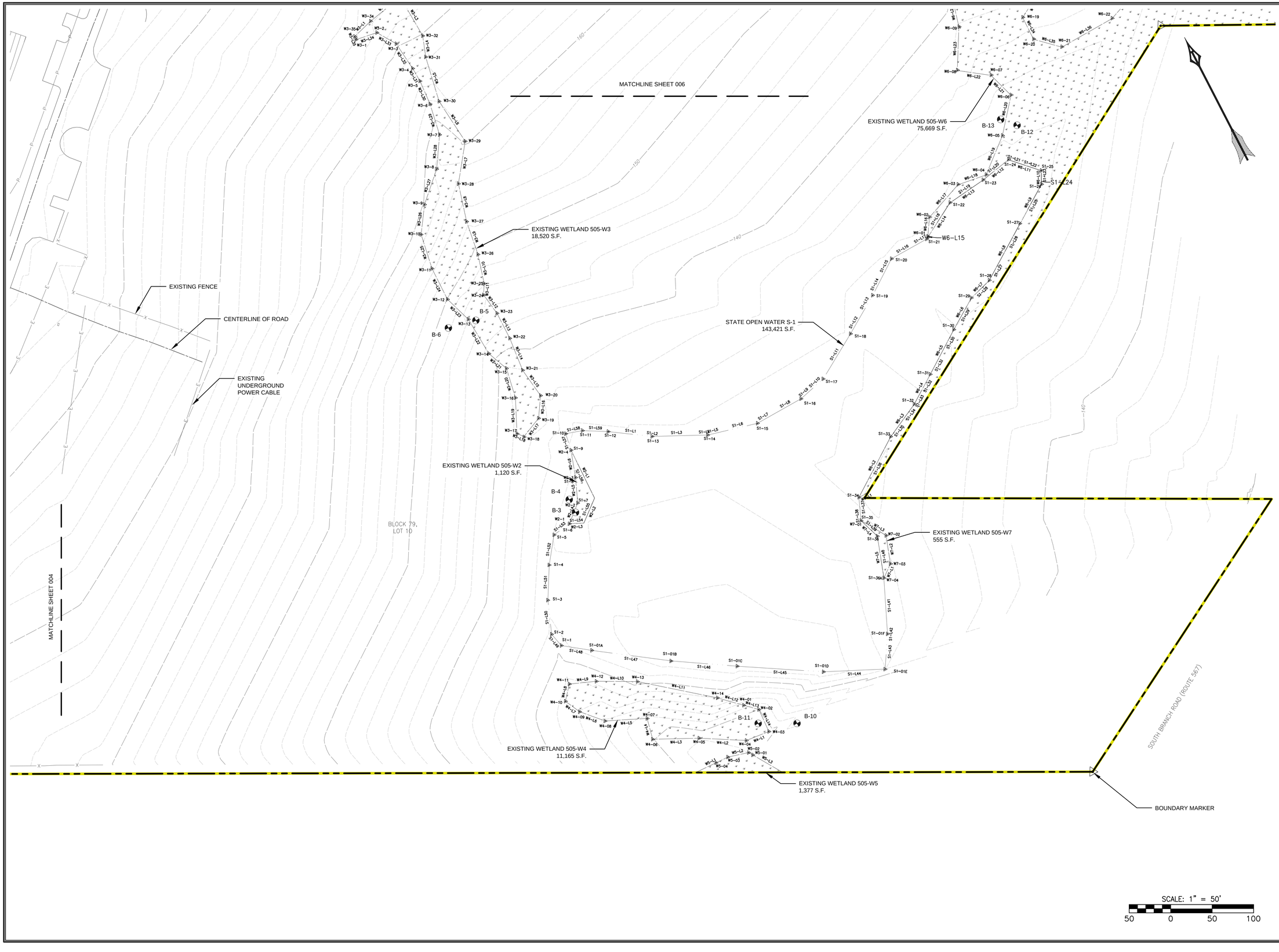

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2800 POST OAK BOULEVARD
HOUSTON, TEXAS 77251

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& CENTERVILLE REGULATOR
SOMERSET COUNTY
NEW JERSEY 08853

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ALT. CLIENT DRAWING NUMBER:

GAI FILE NUMBER: C191318-20-000-00-WS-SETUP

ISSUING OFFICE: Pittsburgh | 385 E. Waterfront Drive, Homestead, PA 15120

ISSUE DATE:	DRAWN BY:
10/12/2020	J.BARCLAY
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DWG TYPE:	APPROVED BY:
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	005 OF 006

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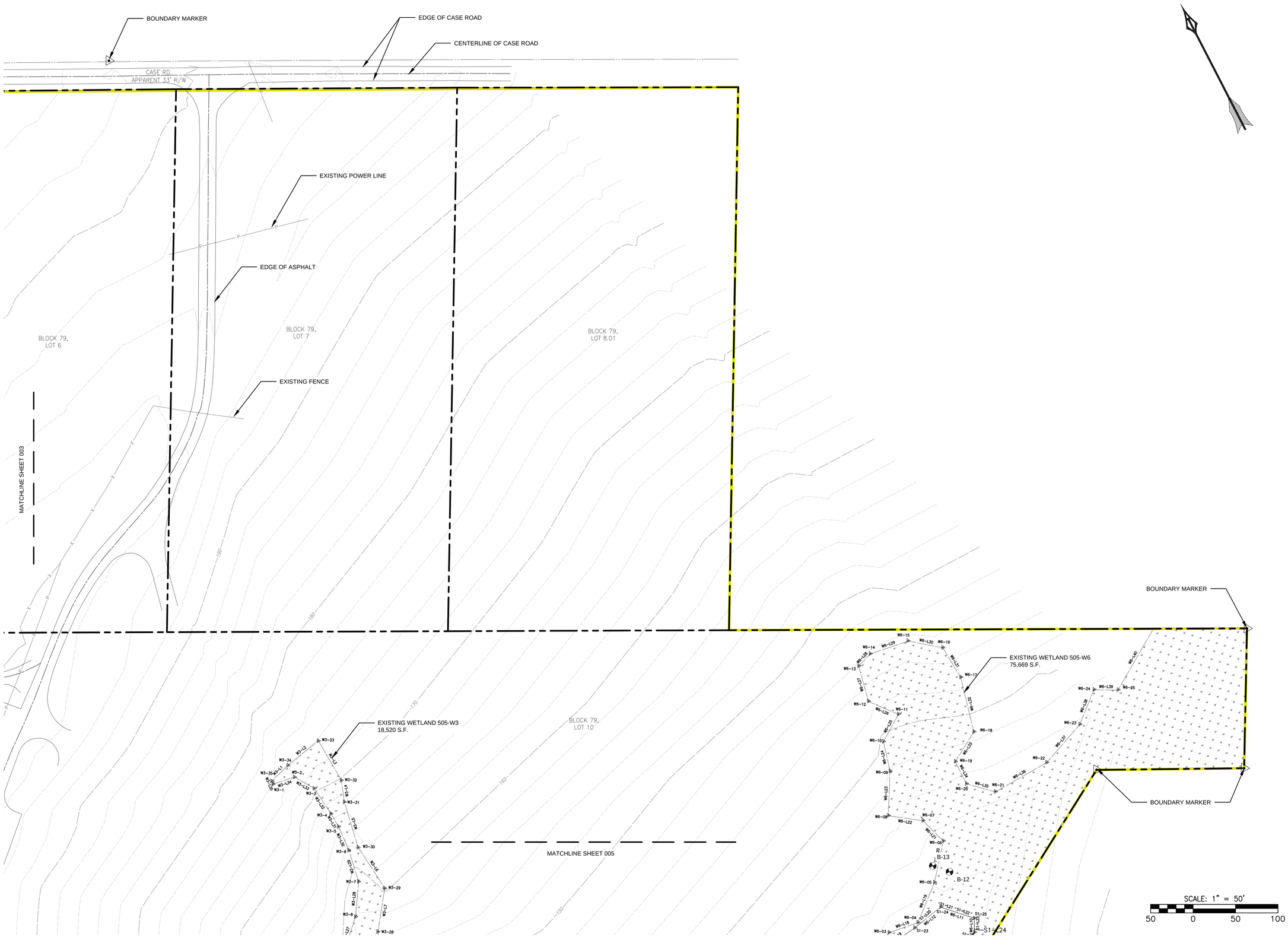

DRAWING TITLE
LOI PLAN

PROJECT
EXISTING COMPRESSOR STATION 505
& CENTERVILLE REGULATOR
SOMERSET COUNTY
NEW JERSEY 08853

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CLIENT
TRANSCONTINENTAL GAS PIPE LINE
COMPANY LLC
2800 POST OAK BOULEVARD
HOUSTON, TEXAS 77251

GAI FILE NUMBER: **C191318-20-000-00-WS-SETUP**
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