

**Former NIKE Base Property
Passaic County
Letter of Interpretation
Line Verification (LOI) Application**

**Passaic County
Letter of Interpretation Application
1310 Route 23 North (Block 1400, Lot 26)
Wayne, Passaic County, New Jersey**

May 2010

**Prepared by:
Dewberry-Goodkind, Inc.
600 Parsippany Rd
Ste 301
Parsippany, NJ 07054**

Table of Contents

- NJDEP Land Use Regulation Program Application Form (LURP #2)
- Freshwater Wetlands Line Verification Letter of Interpretation (LOI) Application Checklist
- Fee Table

Attachments

Attachment A	Property Owner List and Proof of Notification: <ul style="list-style-type: none">• List of All Property Owners within 200 feet of the Property• Notification Letters<ul style="list-style-type: none">◆ Municipal Clerk◆ Municipal Environmental Commission◆ Municipal Planning Board◆ Municipal Construction Official◆ County Planning Board◆ Property Owners within 200 feet of the Property• All Certified Mail Receipts
Attachment B	Figures: <ul style="list-style-type: none">• Figure 1 – USGS Topographic Map• Figure 2 – Street Map Showing Site Location• Figure 3 – Soil Survey Map
Attachment C	Site Plans
Attachment D	Site Photographs
Attachment E	List of Other Necessary Approvals
Attachment F	Narrative, Wetland Data Forms, and Natural Heritage Program Response Letter
Attachment G	Preparer Qualifications



State of New Jersey
Department of Environmental Protection
 Division of Land Use Regulation Application Form (LURP-2)
 Division of Land Use Regulation
 501 E. State Street P.O. Box 439
 Trenton, NJ 08625-0439
 www.nj.gov/dep/landuse



PLEASE PRINT OR TYPE THE FOLLOWING: (Complete all sections unless otherwise noted)

1. **Applicant Name:** County of Passaic Email: adenova@passaiccountynj.org

Address: 401 Grand Street City: Paterson

State: NJ Zip: 07505 Daytime Phone: 973-881-4405 Ext.: _____ Cell Phone: _____

2. **Agent Name:** Brian Sayre Firm: Dewberry-Goodkind, Inc Email: bsayre@dewberry.com

Address: 600 Parsippany Road, Suite 301 City: Parsippany

State: NJ Zip: 07054 Daytime Phone: 973-576-9637 Ext.: _____ Cell Phone: _____

3. **Property Owner Name:** County of Passaic Email: _____

Address : 401 Grand Street City: Paterson

State: NJ Zip: 07505 Daytime Phone: _____

4. **Project Name:** Former NIKE Base Property (Passaic Co.) Site Location (Street Address): 1310 Route 23 North

Zip: 07470 Municipality: Wayne County: Passaic

Block(s): 1400 Lot(s): 26

N.A.D. 1983 State Plane Coordinates (feet) 6 digits only: E (x): 557444 N (y): 763861

Nearest Waterway: Packanack Brook Watershed: Pompton River Subwatershed: Pompton River

5. **Fees:** Total Fee: \$3,456.00 Project Cost: N/A Check No: _____

6. **Project Description:** The wetland delineation has been completed in preparation for future potential site development.

7. **Application(s) for: Check all that apply (Please follow directions on page 5)**

Application Type	Fee Amt	Amt Paid
Flood Hazard Area		
<input type="checkbox"/> FHA Verification		
<input type="checkbox"/> FHA Individual Permit		
<input type="checkbox"/> FHAGP1 / Chan Clean w/o Sed Removal	No Fee	No Fee
<input type="checkbox"/> FHAGP1 / Chan Clean w/Sed Removal	No Fee	No Fee
<input type="checkbox"/> FHAGP2A / Ag - Bank Restoration		
<input type="checkbox"/> FHAGP2B / Ag - Channel Cleaning		
<input type="checkbox"/> FHAGP2C / Ag - Road Crossing		
<input type="checkbox"/> FHAGP2D / Ag - Wetlands Restoration		
<input type="checkbox"/> FHAGP2E / Ag - Livestock Ford		
<input type="checkbox"/> FHAGP2F / Ag - Livestock Fence		
<input type="checkbox"/> FHAGP2G / Ag - Livestock Water Intake		
<input type="checkbox"/> FHAGP3 / Bridge/Culvert Scour Protection		

Application Type	Fee Amt	Amt Paid
Flood Hazard Area		
<input type="checkbox"/> FHAGP4 / Stormwater Maintenance		
<input type="checkbox"/> FHAGP5 / Building Relocation		
<input type="checkbox"/> FHAGP6 / Rebuild Damaged Home	No Fee	No Fee
<input type="checkbox"/> FHAGP7 / Residential in Tidal FHA		
<input type="checkbox"/> FHAGP8 / Utility Crossing <50acres		
<input type="checkbox"/> FHAGP9 / Road Crossing <50acres		
<input type="checkbox"/> FHAGP10 / Stormwater Outfall <50acres		
<input type="checkbox"/> Revision of a GP, IP or Verification		
<input type="checkbox"/> Transfer of an Approval		
Stormwater Review Fees		
<input type="checkbox"/> Fee for all Stormwater Reviews		

	Application Type	Fee Amt	Amt Paid
	Applicability Determination		
<input type="checkbox"/>	Coastal Jurisdictional Determination	No Fee	No Fee
<input type="checkbox"/>	Highlands Jurisdictional Determination	No Fee	No Fee
<input type="checkbox"/>	Flood Hazard Area Applicability	No Fee	No Fee
	CAFRA		
<input type="checkbox"/>	Individual Permit		
<input type="checkbox"/>	Exemption Request		
<input type="checkbox"/>	Permit Modification		
<input type="checkbox"/>	CAFGP5 / Amusement Pier Exp		
<input type="checkbox"/>	CAFGP6 / Beach/Dune Maintenance		
<input type="checkbox"/>	CAFGP7 / Voluntary Reconstruction		
<input type="checkbox"/>	CAFGP8 / New Single Family or Duplex		
<input type="checkbox"/>	CAFGP9 / Reconstruct Single Fam/Dup		
<input type="checkbox"/>	CAFGP10 / New Bulkhead/Fill Lagoon		
<input type="checkbox"/>	CAFGP11 / Revetment		
<input type="checkbox"/>	CAFGP12 / Gabions		
<input type="checkbox"/>	CAFGP13 / Support Facilities/ Marina		
<input type="checkbox"/>	CAFGP14 / Reconst Bulkhead A/MHWL		
<input type="checkbox"/>	CAFGP15 / Hazard Waste Clean-up		
<input type="checkbox"/>	CAFGP16 / Landfall of Utilities		
<input type="checkbox"/>	CAFGP17 / Recreat Facility Public Park		
<input type="checkbox"/>	CAFGP18/BulkheadConstuct/Fill upland		
<input type="checkbox"/>	CAFGP21 / Shoreline Stabilization		
<input type="checkbox"/>	CAFGP22 / Avian Nesting Structures		
<input type="checkbox"/>	CAFGP23 / Electrical Sub Facility		
<input type="checkbox"/>	CAFGP24 / Legalize Filling of Tidelands		
<input type="checkbox"/>	CAFGP25 / Construct Telecom Tower		
<input type="checkbox"/>	CAFGP26 / Tourism Ind Construction		
<input type="checkbox"/>	CAFGP27 / Geotechnical Borings		
<input type="checkbox"/>	CAFGP29 / Habitat Creation/Enhance		
	Coastal/Tidal Wetlands		
<input type="checkbox"/>	Coastal/Tidal Wetlands Permit		
<input type="checkbox"/>	Coastal Wetland Permit Modification		
	Waterfront Development		
<input type="checkbox"/>	WDGP10 / New Bulkhead/Fill Lagoon		
<input type="checkbox"/>	WDGP14 / Reconstruct Bulkhead		
<input type="checkbox"/>	WDGP19/Dock/Piers, Boat Lifts Lagoon		
<input type="checkbox"/>	WDGP20 / Minor Maint Dredge Lagoon		
<input type="checkbox"/>	WDGP21 / Shoreline Stabilization		
<input type="checkbox"/>	Individual Permit/Upland		
<input type="checkbox"/>	Individual Permit/Inwater		
<input type="checkbox"/>	Zane Letter		
<input type="checkbox"/>	Modification		
	Highlands		
<input type="checkbox"/>	Emergency Permit		
<input type="checkbox"/>	Pre-application Meeting		
<input type="checkbox"/>	Preservation Area Approval		
<input type="checkbox"/>	PAA with Waiver		
<input type="checkbox"/>	Resource Area Determination footprint		
<input type="checkbox"/>	Resource Area Determination <acre		
<input type="checkbox"/>	Resource Area Determination >acre		
<input type="checkbox"/>	HPAAGP 1/ Habitat Creation/Enhance		
<input type="checkbox"/>	HPAAGP 2 Bank Stabilization		

	Application Type	Fee Amt	Amt Paid
	Freshwater Wetlands		
<input type="checkbox"/>	FWGP1 / Main. & repair Exist Feature		
<input type="checkbox"/>	FWGP2 / Utility Crossing		
<input type="checkbox"/>	FWGP3 / Discharge of Return Water		
<input type="checkbox"/>	FWGP4 / Hazard Site Invest/Cleanup		
<input type="checkbox"/>	FWGP5 / Landfill Closure		
<input type="checkbox"/>	FWGP6 / Filling of NSWC		
<input type="checkbox"/>	FWGP6A /TA- Filling of NSWC		
<input type="checkbox"/>	FWGP7 / Fill ditch / swale		
<input type="checkbox"/>	FWGP8 / House Addition		
<input type="checkbox"/>	FWGP9 / Airport Sightline Clearing		
<input type="checkbox"/>	FWGP10A / Very Minor Road Crossing		
<input type="checkbox"/>	FWGP10B / Minor Road Crossing		
<input type="checkbox"/>	FWGP11 / Outfalls / Intakes		
<input type="checkbox"/>	FWGP12 / Survey / Investigation		
<input type="checkbox"/>	FWGP13 / Lake Dredging		
<input type="checkbox"/>	FWGP14 / Water Monitoring		
<input type="checkbox"/>	FWGP15 / Mosquito Control		
<input type="checkbox"/>	FWGP16 / Habitat Create / Enhance	No Fee	No Fee
<input type="checkbox"/>	FWGP17 / Trails / Boardwalks		
<input type="checkbox"/>	FWGP17A / Multiuse paths		
<input type="checkbox"/>	FWGP18 / Dam Repairs		
<input type="checkbox"/>	FWGP19 / Dock or Pier		
<input type="checkbox"/>	FWGP20 / Bank Stabilization		
<input type="checkbox"/>	FWGP21 / Above Ground Utility		
<input type="checkbox"/>	FWGP23 / Expand Cranberry		
<input type="checkbox"/>	FWGP24 / Spring Developments		
<input type="checkbox"/>	FWGP25 / Malfunction Septic System	No Fee	No Fee
<input type="checkbox"/>	FWGP26 / Channel / Stream Clean		
<input type="checkbox"/>	FWGP27 / Redevelop Disturbed Site		
<input type="checkbox"/>	FWGP Modification		
<input type="checkbox"/>	Individual Wetlands Permit		
<input type="checkbox"/>	Individual Open Water Permit		
<input type="checkbox"/>	Individual Permit Modification		
<input type="checkbox"/>	Wetlands Exemption		
	Letter of Interpretation		
<input type="checkbox"/>	Presence Absence		
<input type="checkbox"/>	Presence Absence Footprint		
<input type="checkbox"/>	Delineation		
<input checked="" type="checkbox"/>	Verification	\$3,456.00	\$3,456.00
<input type="checkbox"/>	Extension		
	Transition Area Waiver		
<input type="checkbox"/>	Averaging Plan		
<input type="checkbox"/>	Reduction		
<input type="checkbox"/>	Hardship Reduction		
<input type="checkbox"/>	Special Activity Stormwater		
<input type="checkbox"/>	Special Activity Linear Development		
<input type="checkbox"/>	Special Activity Redevelopment		
<input type="checkbox"/>	Special Activity Individual Permit		
<input type="checkbox"/>	Exemption		
<input type="checkbox"/>	Modification		
	Consistency Determination		
<input type="checkbox"/>	Water Quality Certificate		

Both the Applicant and Property owner's section must be filled out for all Land Use Regulation Applications

A. APPLICANT SIGNATURE

I certify under penalty of law that the information provided in this document is true and accurate. I am aware that there are significant civil and criminal penalties for submitting false or inaccurate information. (If corporate entity, print/type the name and title of person signing on behalf of the corporate entity.)

Signature of Applicant/Owner

Date

Anthony De Nova – County of Passaic

Print Name

401 Grand Street, Paterson, NJ 07505

Print Address

Signature of Applicant/Owner

Date

Print Name

Print Address

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 grants permission for the conduct of the proposed activity. In addition, I hereby give unconditional written consent to allow access to the site by representatives or agents of the Department for the purpose of conducting a site inspection or survey of the project site.

In addition, the undersigned property owner hereby certifies:

- 1. Whether any work is to be done within an easement – Yes: No: **N/A**
- 2. Whether any part of the entire project (e.g., pipeline, roadway, cable, transmission line, structure, etc.) will be located within property belonging to the State of New Jersey-Yes: No: **N/A**
- 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: **N/A**
- 4. Whether any part of this project requires a Section 106(National Register of Historic Places) Determination as part of a federal permit or approval – Yes: No: **N/A**

Signature of Owner

Date

Anthony De Nova – County of Passaic

Print Name

401 Grand Street, Paterson, NJ 07505

Print Address

Signature of Owner

Date

Print Name

Print Address

C. APPLICANT'S AGENT

NOTE: Notary seal is required for Flood Hazard Area (SEA) applications.

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

Name Brian Sayre

Occupation/Profession Natural Resources Department Manager

(Signature of Applicant/Owner)

AGENT'S CERTIFICATION
Sworn before me this day of

I agree to serve as agent for the above-mentioned applicant _____ 20 ____

(Signature of Agent)

Notary Public

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

I hereby certify that the plans, specifications and engineer's report, if any, applicable to this project comply with the current rules and regulations of the New Jersey Department of Environmental Protection with the exceptions as noted. In addition, I certify the application is complete as per the appropriate checklist(s).

Signature

N/A

Type: Name and Date

Position, Name of Firm

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 the information submitted in the 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 in accordance with the appropriate checklist(s). I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

Signature

Brian A. Sayre

Type: Name and Date

Natural Resources Department Manager, Dewberry-Goodkind, Inc

Position, Name of Firm

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

Instructions for completing the LURP2 Form

(Please print clearly or type all information in every section)

Section 1. Applicant Information

Make sure all applicant information is correct and up to date.
Do not provide telephone numbers with call intercept.

Section 2. Agent Information

Make sure all agent information is correct and up to date.
Do not provide telephone numbers with call intercept.
If you do not have an agent, leave this section blank.

Section 3. Property Owner Information

Identify the property owner if different from applicant.

Section 4. Project Site Information

List the street address if known along with the correct zip code for the property.
List all blocks and lots if more space is needed please attach a list to the LURP2 form.
Make sure the state plane coordinates are given and that they are 1983 datum otherwise the application will be rejected.
(Applicants can find state plane coordinates on USGS maps or by going to the NJDEP website and using the IMAP feature to find the location of property and the exact state plane coordinates)

Section 5. Fees and Costs

Make sure to list total fees paid and check number(s) of the fee. Also list the estimated cost for the project in the regulated area if applying for a coastal permit or the total cost of the project if applying for any non-coastal permit or waiver. A separate fee breakdown sheet must be attached to the LURP2 form detailing the breakdown of all fees paid.

Section 6. Project Description

Briefly describe what you are proposing to construct within regulated areas.

Section 7. Type of Application you are submitting

Place a check mark next to each type of activity you are requesting in this application package. Please fill in the amount of fee required for each permit and the amount of fees paid for each permit. The fee paid may be different from the amount required for each permit since the amount required may differ due to the multiple permit fee rule and/or the three payment plan for fees in excess of \$1,000.

Section A. Applicant's Signature

The person or corporate officer applying for this permit and to whom the permit will be issued must sign here.

Section B. Property Owner's Signature

The legal owner of the property on which the regulated activities are proposed must sign here and certify items one through four in this section.

Section C. Applicant's Agent Authorization

If the applicant is represented by a consultant or engineer, that individual shall fill out this section.

Section D. Statement of the Preparer of Plans

For all Stream Encroachment (Flood Hazard Area), and Waterfront applications require that the person preparing the plans and reports fill out this section.

Section E. Statement of the Preparer of Application, Reports and Supporting Documents

Anyone who prepares and is the responsible person for part of the application, reports or supporting documents must fill out this section.



State of New Jersey
Department of Environmental Protection
Land Use Regulation Program
PO Box 439
Trenton, NJ 08625-0439
Fax# (609)-777-3656
www.nj.gov/dep/landuse/



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

(Updated 10/20/2008)

This checklist is for all LOIs. The Department issues the following three types of LOIs:

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

To complete this checklist, you will need:

Attachment A: Form letter for providing certified mail notice of an application.

LURP2 Form: Application form

NOTE: Please provide only one copy of each item listed on the checklist, unless the item specifically states that more copies should be provided.

NOTE: The person who signs the LURP2 application form as the applicant must be the owner of the site, or a person with legal authority over the site to carry out all requirements of any authorization issued. Others may assist the applicant in preparing the application, however only one person may be identified in the application as the applicant's agent. The agent may be a consultant, engineer, attorney, or other person who has assisted or prepared the application. The agent is the person to which all correspondence will be sent and the person that has authority to make decisions with regard to the application.

NOTE: After the Department has reviewed an application for a line verification LOI, or a line delineation LOI, the applicant must submit a survey of the wetlands and/or open waters boundary. The Department will then include the survey of the approved boundary in the issued LOI. The Department will not issue the LOI until the survey is submitted.

NOTE: If any portion of this site is known or suspected of having any contamination the applicant shall provide any and all information regarding said contamination to this office with the associated letter of interpretation application.

APPLICATION REQUIREMENTS:

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

- 1. A LURP2 application form, completed in accordance with the directions on the form;
- 2. The appropriate fee, indicated in the fee table below, paid as follows:
 - The fee shall be paid by personal check, certified check, attorney check, government purchase order, or money order;
 - For all projects except those in the Pinelands, the fee shall be made payable to **"Treasurer, State of New Jersey"**;
 - For projects in the Pinelands, the fee shall be made payable to "NJDEP-Pinelands Wetlands Program."
 - Each check, purchase order, or money order must be marked with the name of the applicant;
 - Each check, purchase order, or money order must indicate the type of letter of interpretation (LOI) for which the application is submitted (for example "presence/absence LOI");
 - If more than one permit is requested a fee break down should be included on a separate page.
- 3. Proof that the public notice requirements at A and B below have been met. (Note: To prove that an item has been sent to a person, submit either the stamped white postal receipt you receive when you send the item by certified mail, or the signed green certified mail return receipt card.) All of the following must be submitted:
 - A. Proof that the municipal clerk has been sent a copy of the entire application that was submitted to NJDEP;
 - B. Proof that a completed copy of the notice letter found in Attachment A has been sent to each of the following:
 - i. The municipal environmental commission (if one exists);
 - ii. The municipal planning board;
 - iii. The municipal construction official;
 - iv. The county planning board; and
 - v. One of the following sets of neighboring landowners (applicant choose one option):
 - Option 1: All owners of land within 200 feet of the boundary of the site (see N.J.A.C. 7:7A-1.4 for a definition of "site").
 - If this option is selected, the application must also include a certified list of landowners within 200 feet of the site, obtained from the municipality;
 - Option 2: If the application is part of a joint application for an LOI and a general permit authorization, all owners of land within 200 feet of the proposed disturbance.

See
Attachment
A

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

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

4. A copy of a USGS quad map, with: the site clearly outlined (USGS quad maps can be obtained from the Department's Office of Maps and Publications – (609) 777-1038); and State Plane coordinates for a point at the approximate center of the site. The accuracy of the State plane coordinate shall be within 50 feet of the actual center point of the site. Please use nad 1983. For assistance in determining the State plane coordinates for a site, contact the Department's Geographic Information (GIS) Office at (609) 777-0672.
- See Attachment B

Note: For a linear development, the State plane coordinates shall include the coordinates for the end point of the development and the coordinates for points located at 1,000 foot intervals along the entire length of the development.

5. An up to date county road map or local street map, with the site clearly indicated;
- See Attachment B

6. A tax map, with the site clearly indicated;
- See Attachment C

7. Original color photographs, mounted on 8½ by 11 inch paper, sufficient to show a representative sample of the vegetation on the portion(s) of the site that are affected by the LOI application. A minimum of four photographs is required;
- See Attachment D

8. A copy of a county soil survey map, with the site clearly outlined. (soil survey maps can be obtained from the local Soil Conservation District, New Jersey Department of Agriculture). Indicate the map number on the map;
- See Attachment B

9. Information regarding whether other approvals are required for the activities by Federal, interstate, State and local agencies for the activity; information regarding whether any such approvals or denials have been received; and information regarding whether the proposed activities are consistent with the rules, plans, or policies of other Federal, interstate, State and local agencies;
- See Attachment E
10. All additional information required below at 11 through 14 for the type of LOI for which you are applying;
11. For a presence/absence LOI for an entire site under N.J.A.C. 7:7A-3.2(c)1, no additional information is required. However, the boundaries of the site shall be flagged or staked to enable Department staff to identify the site boundaries;
12. For a presence/absence LOI for a portion of a site under N.J.A.C. 7:7A-3.2(c)2, the following information is required, in addition to the information required in items 1 through 9 above:
- A. Five folded copies of a survey or site plan, drawn at a scale of no more than 1 inch to 50 feet, signed and sealed by a licensed surveyor, clearly showing the portion of the site (or "footprint of disturbance") which the applicant wishes the LOI to cover;
- ___ i. Flags or stakes must be placed on the site to show the boundaries of the portion of the site (or "footprint of disturbance") that the LOI will cover, so that Department staff can easily find the boundary of that portion of the site;
- ___ ii. The flags or stakes must be numbered, and must be identified on the survey or site plan required under A above;
13. For a line delineation LOI for a site under one acre under N.J.A.C. 7:7A-3.3, the application shall include five copies of a survey of the site, drawn at an appropriate scale, signed and sealed by a licensed surveyor. In addition, the boundaries of the site shall be flagged or staked to enable Department staff to identify the site boundaries;
14. For a line verification LOI under N.J.A.C. 7:7A-3.4(b), the following information is required, in addition to the information required in items 1 through 9 above::
- A. Five folded copies of a survey or site plan, drawn at a scale of no more than one inch to 100 feet signed and sealed by a licensed surveyor;
- See Attachment C
- If the application is for a line verification for the entire site, the survey or site plan shall show the entire site;
- If the application is for a line verification for only a portion of a site, the survey or site plan need only show that portion of the site;
- B. The proposed boundaries of all wetlands and/or open waters on the site must be drawn and clearly labeled on the survey or site plan;
- See Attachment C
- C. The proposed boundaries of all wetlands and/or open waters must be flagged or staked on the site as follows, so that Department staff can visit the site and locate the proposed boundaries:
- See Attachment C

- The flags or stakes must be no more than 75 feet apart and must be set in relation to identifiable points and landmarks if possible;
- Each flag or stake must be numbered, and must be identified on the survey or site plan by its number;

D. Soil borings must be taken as follows:

See
Attachments
C and F

- Soil borings shall be taken along a line perpendicular to the wetlands boundary, starting in the definite wetland area and moving towards the uplands;
- Each soil boring must be at least eighteen inches deep, and must be deeper if necessary to provide clear evidence of the soil characteristics at that location on the site. Deeper borings are often necessary in atypical or disturbed wetlands;
- The number of soil borings must be sufficient to provide a representative sampling of the soil on the site. The Department may require additional borings if necessary to provide a representative sampling;

See
Attachment
C

E. The survey or site plan shall indicate the location and identifying number of each soil boring;

See
Attachment
F

F. The application must include 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;

See
Attachment
C

G. The survey or site plan shall indicate topographic contours as follows:

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

See
Attachment
F

H. The application must include a description of the vegetative species on the site, recorded at each soil boring and 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 list of Plant Species that Occur in Wetlands: 1988-New Jersey" and amendments thereto, compiled by the USFWS, United States Army Corps of Engineers, USEPA and the USDA's Natural Resources Conservation Service;

I. If the application is for a line verification *for only a portion of a site* under N.J.A.C. 7:7A-3.4(b)3, the survey or site plan must include a metes and bounds description of that portion of the site. The boundaries of that portion of the site must also be flagged or staked on the site, so that Department staff can visit the site and locate the boundaries. The flags or stakes must be numbered, and must be identified on the survey or site plan; and

See
Attachment
C

J. If the application is for a line verification *for an entire site* under N.J.A.C. 7:7A-3.4(b) 1 or 2, the survey or site plan must show the boundaries of the site. The boundaries of the site must also be flagged or staked, so that Department staff can visit the site and locate the boundaries; and

See
Attachment
G

K. The application shall include the name(s) and qualifications of the person(s) who prepared the material required in A through I above.

LETTER OF INTERPRETATION (LOI) APPLICATION FEES

Type of LOI	Fee
Presence/absence LOI -- whole site	\$240.00
Presence/absence LOI under N.J.A.C. 7:7A-3.2 -- portion of a site (AKA footprint of disturbance)	\$480.00
Line delineation LOI under N.J.A.C. 7:7A-3.3 – site smaller than one acre	\$600.00
Line verification LOI under N.J.A.C. 7:7A-3.4 – site smaller than one acre	\$600.00
Line verification LOI under N.J.A.C. 7:7A-3.4 – site one acre or larger	\$600.00 plus \$84.00 per acre ¹ , up to \$60,000.00
LOI extension under N.J.A.C. 7:7A-3.6	\$240.00, or 25% of original fee, whichever is greater
LOI (any type) and a transition area waiver, (any type) if the site is one acre or smaller.	\$840.00 <i>Note: this fee is for a combined transition area waiver and LOI, since the wetlands must be delineated before the review of the transition area waiver application.</i>
LOI (any type) and a transition area waiver, (any type) if the site is larger than one acre.	\$1,080.00 plus \$96.00 per acre ¹ <i>Note: this fee is for a combined transition area waiver and LOI, since the wetlands must be delineated before the review of the transition area waiver application.</i>
LOI (any type) and a general permit authorization	Sum of applicable LOI and general permit authorization fees
LOI (any type) and an individual permit	Applicable individual permit fee

Notes:

- When this fee table refers to a cost "per acre ", this means the cost is per acre or fraction thereof. For example, an area of one and one third acres would have the same fee as an area of two acres. When this fee table refers to a cost "per 1/10 acre", this means the cost is per tenth of an acre or fraction thereof, such that an area of 0.12 acres would have the same fee as an area of 0.2 acres.

FEE TABLE

Former NIKE Base Property
1310 Route 23 North (Block 1400, Lot 26)
Wayne, Passaic County, New Jersey

Letter of Interpretation (LOI) Application Fees	
Line Verification Base Fee =	\$600.00
\$84.00 per 1 acre (34 acres x \$84.00/acre) =	\$2,856.00
Grand Total=	\$3,456.00

ATTACHMENT A

township of wayne

475 Valley Road,
Wayne, New Jersey 07470-3586.
Internet: www.WayneTownship.com

DEPARTMENT OF ASSESSMENTS
(973) 694-1800 ext. 3349
Fax: (973) 694-7004

Phone: (973) 694-1800
FAX: (973) 694-8136

To: Sara Weimer
Dewberry-Goodkind, Inc.
600 Parsippany Road, Suite 301
Parsippany, New Jersey 07054

From: Dorothy S. Kreitz, Chief Assessor

Date: January 4, 2010

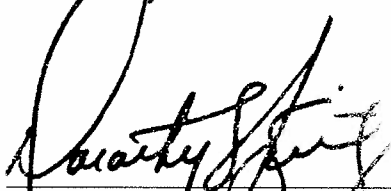
Subject: Certified List

Attached please find the list of property owners within 200 feet of property known as:

Block: 1400 Lot: 26 Location: 1310 Route 23

This list was prepared in conformance with the requirements of the Municipal Land Use Law. Any omission and/or failure and/or error, on the part of the person certifying the list shall not invalidate the certification, any hearing, meeting or proceeding.

Certified by:



Dorothy S. Kreitz, Chief Assessor
The Assessment Department
Township of Wayne

OWNER & ADDRESS REPORT

WAYNE

01/04/10 Page 1

BLOCK	LOT	QUAL	CLA	PROPERTY OWNER	PROPERTY LOCATION	Add'l Lots
1400	1		15C	TOWNSHIP OF WAYNE 475 VALLEY RD WAYNE, N.J. 07470	CEDARCLIFFE DR	
1400	2		4A	PACKANACK LAKE CC ASSN P.O. BOX 1815 WAYNE, NJ 07474	OSBORNE TERR	
1400	9.01		2	FERSCHMAN, PETER & KATHLEEN 3 FOX HOLLOW CT WAYNE, NJ 07470	3 FOX HOLLOW CT	
1400	9.02		2	COAN, LOUIS JOSEPH 6 FOX HOLLOW CT WAYNE, NJ 07470	6 FOX HOLLOW CT	
1400	9.03		2	COAN, DANNY & ANGELA 2 FOX HOLLOW CT WAYNE, NJ 07470	2 FOX HOLLOW CT	
1400	21		2	KAISER, RICHARD & PATRICIA 1370 ROUTE 23 WAYNE, N J 07470	1370 ROUTE 23	
1400	22		2	SPIRKO, LINDA 1360 ROUTE 23 NORTH WAYNE, N J 07470	1360 ROUTE 23	
1400	23		4A	SPIRKO, JOSEPH & LINDA, ETALS 1364 ROUTE 23 WAYNE, NJ 07470	1364 ROUTE 23	
1400	24		4A	RDK PROPERTIES, LLC 1350 ROUTE 23 NORTH WAYNE, NJ 07470	1350 ROUTE 23	
1400	25		4A	LP ASSOC OF WAYNE % ROCK MANAGEMENT 238 ROCK RD 2ND FLOOR GLEN ROCK, NJ 07452	1308 ROUTE 23	
1400	27		4A	EAST GROUP, LLC 13 DENISE DRIVE KINNELON, NJ 07405	1320 ROUTE 23	
1400	28		1	N & G REALTY ENTERPRISES, LLC 1244 ROUTE 23 WAYNE, NJ 07470	1276 ROUTE 23	L29, L30

LIST OF PUBLIC UTILITIES TO BE SERVED

Notice to Applicants:

Chapter 245 of the New Jersey Public Laws of 1991 requires that all persons seeking the approval of any kind of a land development application from a local Zoning Board of Adjustment or from a Planning Board must give notice to all public utilities and cable television companies in accord with the New Jersey statutes.

Consistent with this requirement, in addition to the certified list provided by the Tax Assessor's Office, the following utilities shall also be notified. The addresses and telephone numbers of the various utilities that must be given notice of your application are as follows:

Electric & Gas:

Public Service Electric & Gas Company
Manager-Corporate Properties
80 Park Plaza T6B
Newark, New Jersey 07102
(973) 403-6474

Telephone

Verizon
540 Broad Street
Room 1800
Newark, New Jersey 07101
Attn: Ms. Martha Hall
(973) 649-3192

Jersey Central Power & Light
300 Madison Avenue
Morristown, New Jersey 07962-1911
Attn: Richard s. Cohen
(973) 455-8402

Water & Sewer

George Holzapfel, Dir.
Dept. of Public Works
Township of Wayne
475 Valley Road
Wayne, New Jersey 07470
(973) 694-1800

Cable TV:

Cable Vision of Oakland
40 Potash Road
Oakland, New Jersey 07436
Attn: Dan Gannon, Design Super
(201) 651-4030

Water

Passaic Valley Water Commission
1525 Main Avenue
Clifton, New Jersey 07015
(973) 340-4300

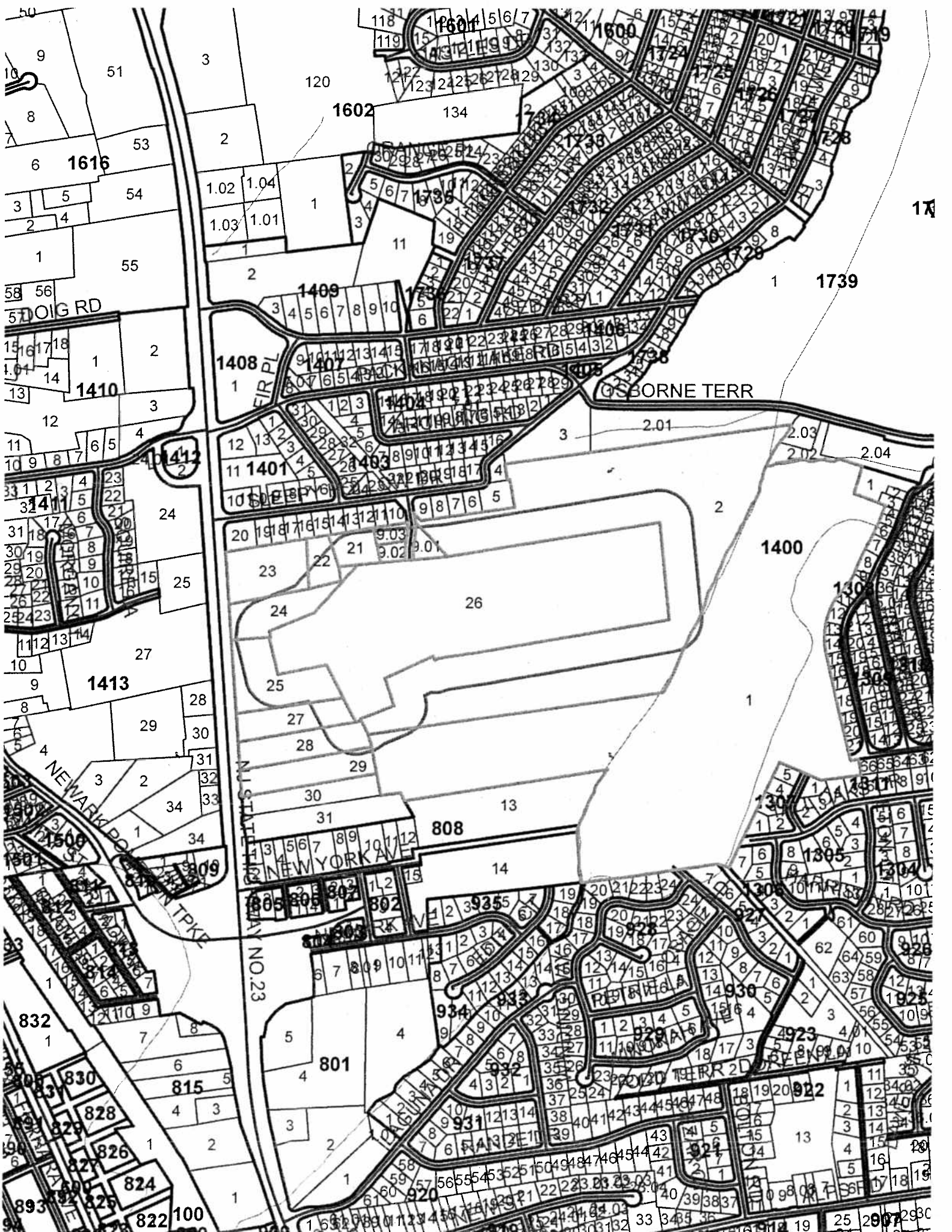
Water

City of Newark Water/Sewer Comm.
Division of Sewers/Water Supply
239 Central Avenue
Newark, New Jersey 07102-3607

Water

No. Jersey District Water Supply
1 Orechio Drive
Wanaque, New Jersey 07465
Attn: Michael Restaino, Director
(973) 835-3600

12/12/91 (Rev.)
7/8/93 (Rev.)
8/1/97 (Rev.)
10/6/98 (Rev.)
1/2/01 (Rev.)
5/21/03 (Rev.)
10/13/09 (Rev.)
10/22/09 (Rev.)



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<DATE>

Mr. Paul V. Margiotta, RMC
Wayne Municipal Clerk
475 Valley Road
Wayne, New Jersey 07470

**Regarding Property at: Block 1400, Lot 26
 1310 Route 23 North
 Wayne, Passaic County, New Jersey**

Dear Mr. Margiotta:

Passaic County (the County) has completed wetland delineation activities at the above-referenced property in preparation for potential future site development. No specific project is proposed at this time. Dewberry-Goodkind, Inc. (Dewberry) has been retained by the County to assist in the environmental evaluation process, including wetland identification and delineation on the property.

This letter is to inform you that the County is applying to the New Jersey Department of Environmental Protection (NJDEP), Division of Land Use Regulation for a Freshwater Wetlands Letter of Interpretation (LOI) Line Verification. The LOI Line Verification is used to verify those wetland areas that are subject to the rules and regulations of the NJDEP. The wetland delineation and survey have been completed as part of the environmental evaluation process for the project.

The rules governing the LOI process can be found in the NJDEP's Freshwater Wetlands Protection Act Rules at N.J.A.C. 7:7A. You can view or download these rules on the NJDEP Land Use Regulation Program website at www.state.nj.us/dep/landuse, or you can find a copy of these rules in the county law library in your county courthouse.

Enclosed is a complete LOI application package. Please make this application package available for review by any interested party. The NJDEP welcomes comments and any information concerning the wetlands, transition areas, or open water at the project location. Should anyone wish to comment on the application, comments should be submitted to the NJDEP *in writing* within 30 days after the Department publishes notice of the application in the DEP Bulletin, which can be found at <http://www.nj.gov/dep/bulletin>. The Department shall consider all written comments submitted within this time. The Department may, in its discretion, consider comments submitted after this date. Comments cannot be accepted by telephone.

Please submit any comments in writing, along with a copy of this letter, to:

New Jersey Department of Environmental Protection
Land Use Regulation Program
501 East State Street, 2nd Floor
P.O. Box 439
Trenton, New Jersey 08625-0439
Attn: Passaic County Section Chief

When the NJDEP determines if the LOI qualifies for approval, the NJDEP will notify your office of the final decision. Please call me at (973) 576-9637 if you have any questions regarding this application.

Sincerely,

Dewberry-Goodkind, Inc.

Brian Sayre
Natural Resources Department Manager

<DATE>

Passaic County Planning Board
930 Riverview Drive, Suite 250
Totowa, New Jersey 07512

**Regarding Property at: Block 1400, Lot 26
 1310 Route 23 North
 Wayne, Passaic County, New Jersey**

Dear Sir or Madam:

Passaic County (the County) has completed wetland delineation activities at the above-referenced property in preparation for potential future site development. No specific project is proposed at this time. Dewberry-Goodkind, Inc. (Dewberry) has been retained by the County to assist in the environmental evaluation process, including wetland identification and delineation on the property.

This letter is to inform you that the County is applying to the New Jersey Department of Environmental Protection (NJDEP), Division of Land Use Regulation for a Freshwater Wetlands Letter of Interpretation (LOI) Line Verification. The LOI Line Verification is used to verify those wetland areas that are subject to the rules and regulations of the NJDEP. The wetland delineation and survey have been completed as part of the environmental evaluation process for the project.

The rules governing the LOI process can be found in the NJDEP's Freshwater Wetlands Protection Act Rules at N.J.A.C. 7:7A. You can view or download these rules on the NJDEP Land Use Regulation Program website at www.state.nj.us/dep/landuse, or you can find a copy of these rules in the county law library in your county courthouse.

The complete application package will be on file at the municipal clerk's office in Wayne Township, or you can call the Land Use Regulation Program office at (609) 777-0456 to make an appointment to see the application during normal business hours at the NJDEP's Trenton office at the address listed below. The NJDEP welcomes comments and any information concerning the wetlands, transition areas, or open water at the project location. Should anyone wish to comment on the application, comments should be submitted to the NJDEP *in writing* within 30 days after the Department publishes notice of the application in the DEP Bulletin, which can be found at <http://www.nj.gov/dep/bulletin>. The Department shall consider all written comments submitted within this time. The Department may, in its discretion, consider comments submitted after this date. Comments cannot be accepted by telephone.

Please submit any comments in writing, along with a copy of this letter, to:

New Jersey Department of Environmental Protection
Land Use Regulation Program
501 East State Street, 2nd Floor
P.O. Box 439
Trenton, New Jersey 08625-0439
Attn: Passaic County Section Chief

When the NJDEP determines if the LOI qualifies for approval, the NJDEP will notify the municipal clerk of the final decision. Please call me at (973) 576-9637 if you have any questions regarding this application.

Sincerely,

Dewberry-Goodkind, Inc.

Brian Sayre
Natural Resources Department Manager

<DATE>

Packanack Lake CC Assn.
P.O. Box 1815
Wayne, New Jersey 07470

**Regarding Property at: Block 1400, Lot 26
 1310 Route 23 North
 Wayne, Passaic County, New Jersey**

Dear Interested Party:

Passaic County (the County) has completed wetland delineation activities at the above-referenced property in preparation for potential future site development. No specific project is proposed at this time. Dewberry-Goodkind, Inc. (Dewberry) has been retained by the County to assist in the environmental evaluation process, including wetland identification and delineation on the property.

This letter is to inform you that the County is applying to the New Jersey Department of Environmental Protection (NJDEP), Division of Land Use Regulation for a Freshwater Wetlands Letter of Interpretation (LOI) Line Verification. The LOI Line Verification is used to verify those wetland areas that are subject to the rules and regulations of the NJDEP. The wetland delineation and survey have been completed as part of the environmental evaluation process for the project.

The rules governing the LOI process can be found in the NJDEP's Freshwater Wetlands Protection Act Rules at N.J.A.C. 7:7A. You can view or download these rules on the NJDEP Land Use Regulation Program website at www.state.nj.us/dep/landuse, or you can find a copy of these rules in the county law library in your county courthouse.

The complete application package will be on file at the municipal clerk's office in Wayne Township, or you can call the Land Use Regulation Program office at (609) 777-0456 to make an appointment to see the application during normal business hours at the NJDEP's Trenton office at the address listed below. The NJDEP welcomes comments and any information concerning the wetlands, transition areas, or open water at the project location. Should anyone wish to comment on the application, comments should be submitted to the NJDEP *in writing* within 30 days after the Department publishes notice of the application in the DEP Bulletin, which can be found at <http://www.nj.gov/dep/bulletin>. The Department shall consider all written comments submitted within this time. The Department may, in its discretion, consider comments submitted after this date. Comments cannot be accepted by telephone.

Please submit any comments in writing, along with a copy of this letter, to:

New Jersey Department of Environmental Protection
Land Use Regulation Program
501 East State Street, 2nd Floor
P.O. Box 439
Trenton, New Jersey 08625-0439
Attn: Passaic County Section Chief

As part of the review of this application, NJDEP personnel may perform a site inspection on your property to confirm the wetland delineation lines. This site inspection will involve only those areas subject to the NJDEP wetlands regulations for this project. The site visit will involve a visual inspection and possibly minor soil borings using a 3-inch diameter hand auger. The site inspection will not result in any damage to vegetation or to the improvements on your property.

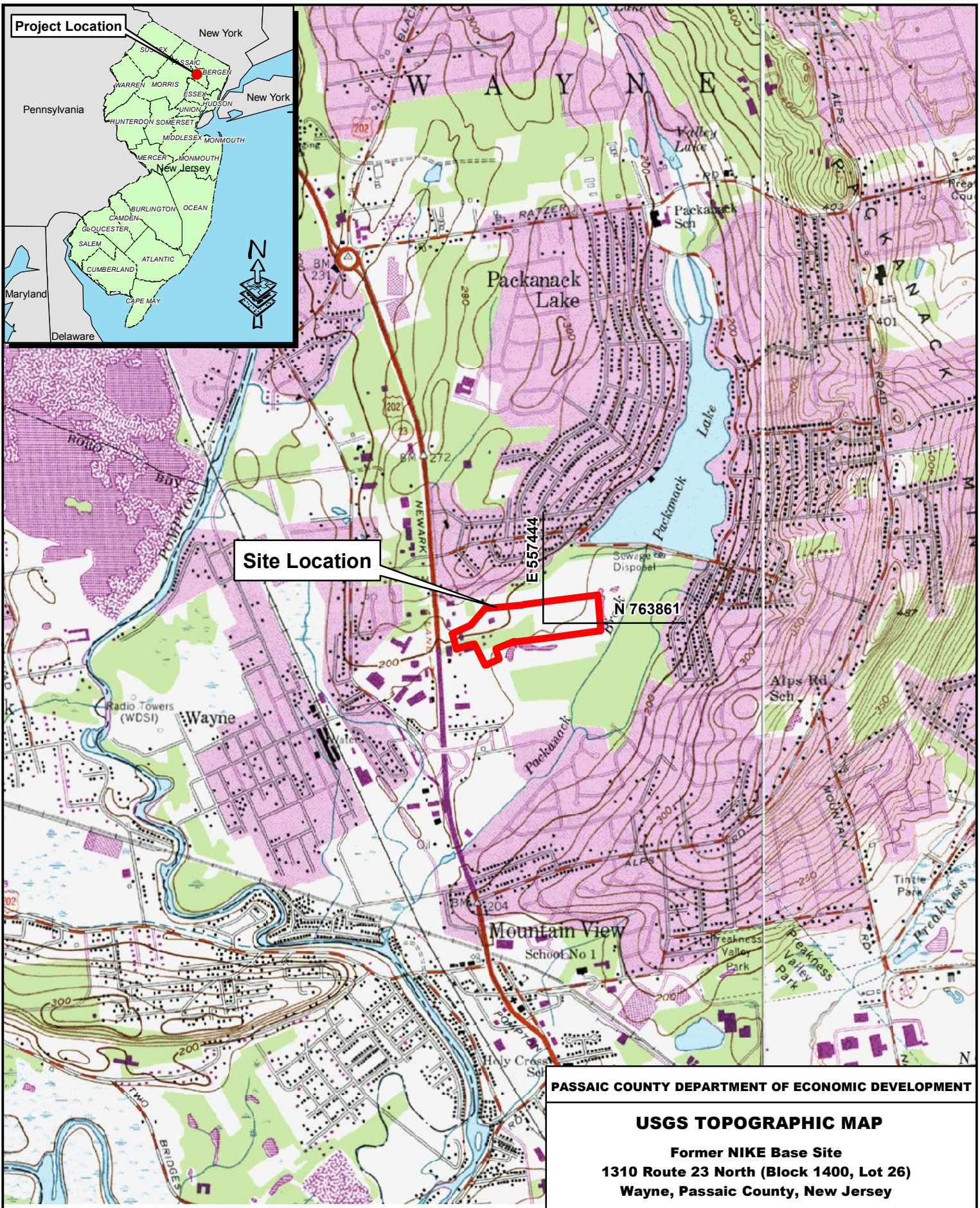
When the NJDEP determines if the LOI qualifies for approval, the NJDEP will notify the municipal clerk of the final decision. Please call me at (973) 576-9637 if you have any questions regarding this application.

Sincerely,

Dewberry-Goodkind, Inc.

Brian Sayre
Natural Resources Department Manager

ATTACHMENT B



PASSAIC COUNTY DEPARTMENT OF ECONOMIC DEVELOPMENT

USGS TOPOGRAPHIC MAP

**Former NIKE Base Site
1310 Route 23 North (Block 1400, Lot 26)
Wayne, Passaic County, New Jersey**

SCALE: As Indicated

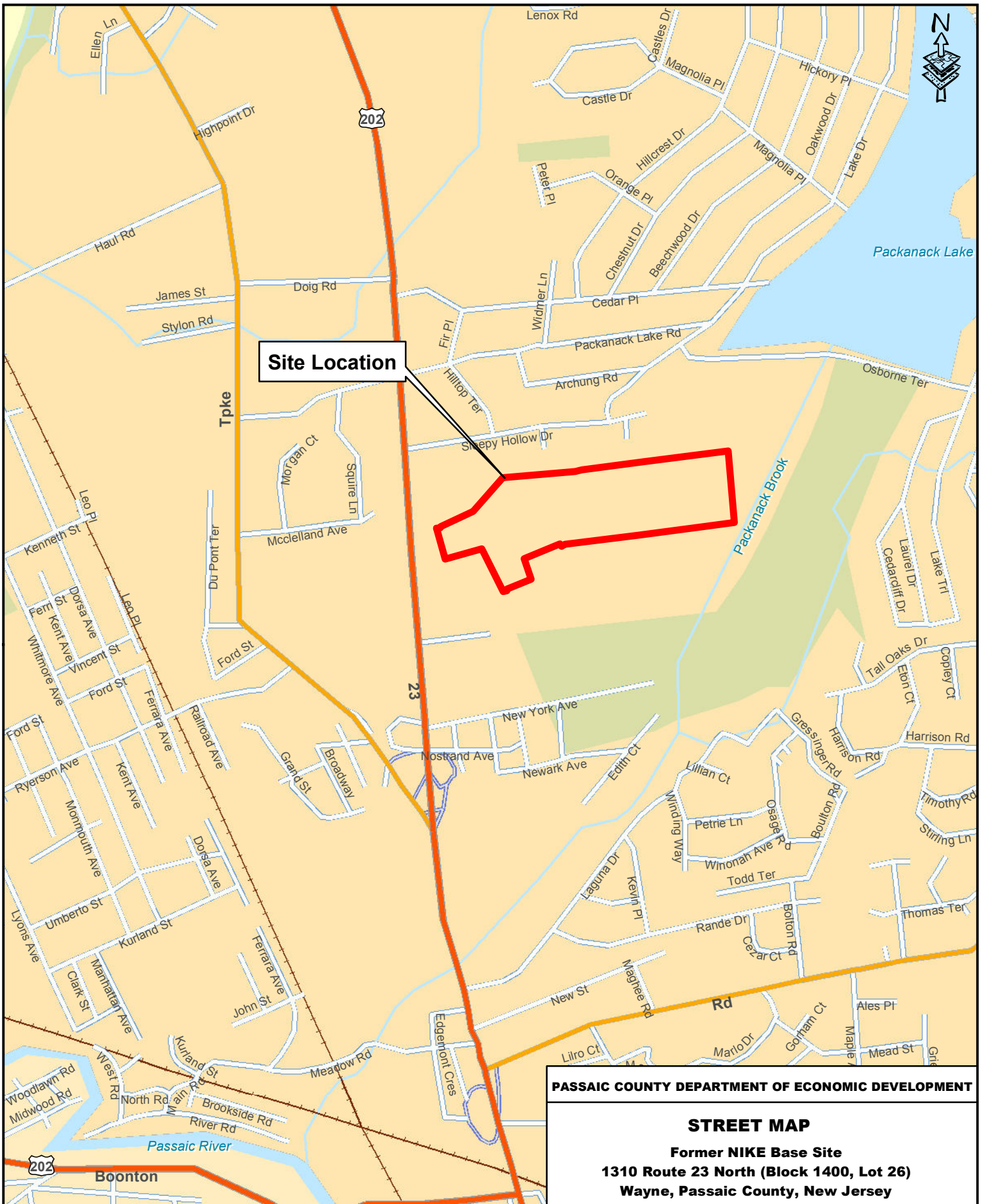
DATE: May 2010



FIGURE 1

Source: U.S.G.S. Topographic Map Pompton Plains & Paterson, N.J. 1955, photorevised 1981.

Q:\50015464\50015467\GIS\Mxd\Figure 2 - USGS Topographic Map.mxd



Site Location

PASSAIC COUNTY DEPARTMENT OF ECONOMIC DEVELOPMENT

STREET MAP

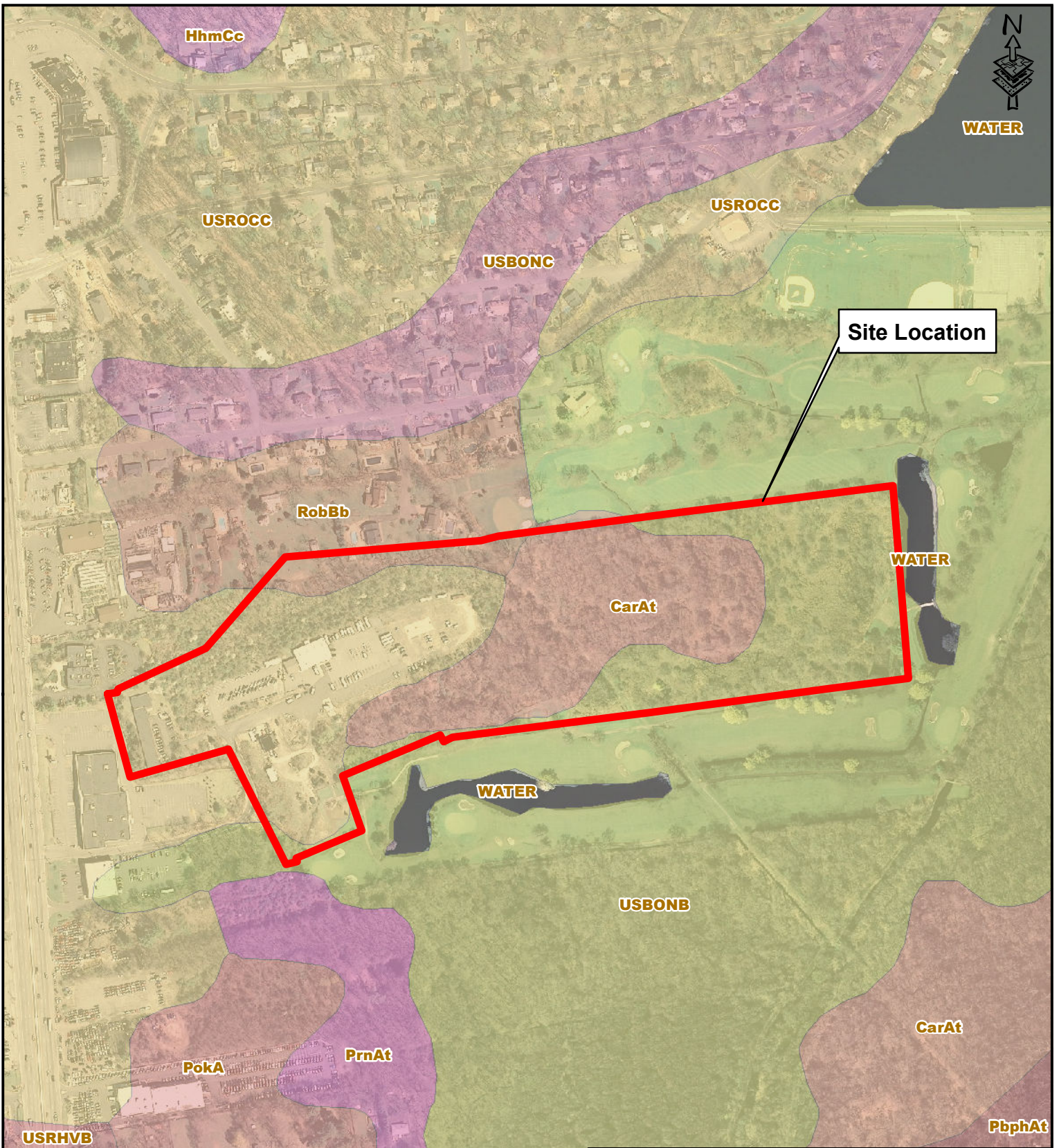
**Former NIKE Base Site
1310 Route 23 North (Block 1400, Lot 26)
Wayne, Passaic County, New Jersey**

SCALE: As Indicated

DATE: May 2010

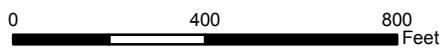


FIGURE 2



LEGEND:

- CarAt** - Carlisle muck, 0 to 2 percent slopes, frequently flooded
- RobBb** - Rockaway sandy loam, 0 to 8 percent slopes, very stony
- USBONB** - Urban land-Boonton complex, 0 to 8 percent slopes
- USROCC** - Urban land-Boonton complex, 8 to 15 percent slopes



Source: Soil Survey Geographic 2008 (SSURGO) Database for Passaic County, New Jersey
 U.S. Department of Agriculture, Natural Resources Conservation Service (NRCS)

PASSAIC COUNTY DEPARTMENT OF ECONOMIC DEVELOPMENT

SOIL SURVEY MAP

Former NIKE Base Site
1310 Route 23 North (Block 1400, Lot 26)
Wayne, Passaic County, New Jersey

SCALE: As Indicated

DATE: May 2010



FIGURE 3

ATTACHMENT C

**Lot 26
Block 1400**
(Tax Map Sht # 14)
Township of Wayne
Passaic County, New Jersey

SEAL

4-28-10
Thomas A. English, P.L.S.
NJ Professional Land Surveyor License # 34847

SCALE: 1" = 100'

No.	DATE	BY	Description

REVISIONS

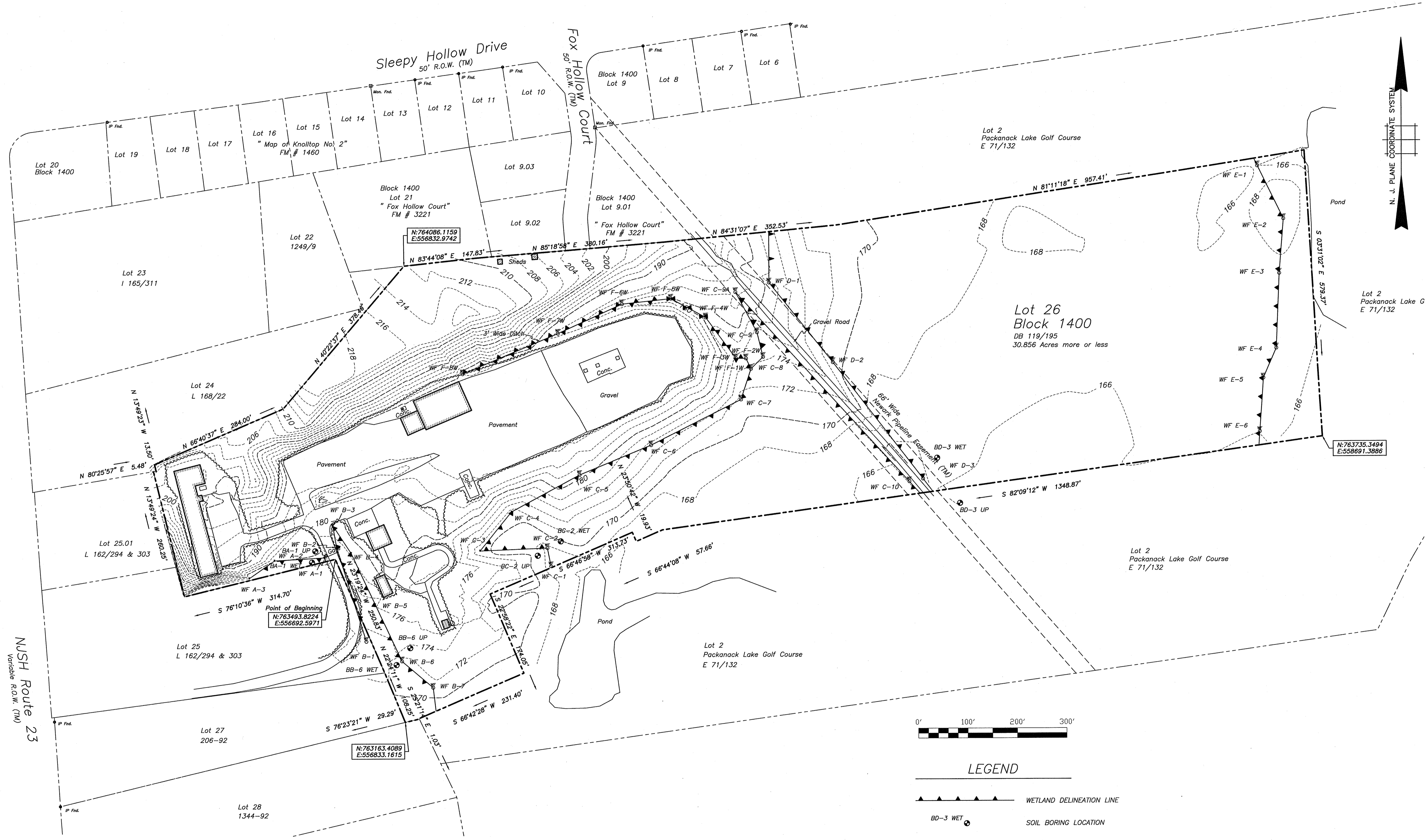
DRAWN BY: MH
APPROVED BY: TAE
CHECKED BY: TAE
DATE: 12/29/09

TITLE
**BOUNDARY/
TOPOGRAPHIC
SURVEY**

PROJECT NO. 50015467

S-1

SHEET NO.



LEGEND

—▲—▲—▲— WETLAND DELINEATION LINE

○ BD-3 WET SOIL BORING LOCATION

SURVEY NOTES:
1. ALL RECORD DEEDS HAVE BEEN ROTATED TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD 83).
2. ELEVATIONS ARE BASED ON NGVD 88 DATUM.

ENVIRONMENTAL NOTICE:
NO DETERMINATION HAS BEEN MADE BY THE UNDERSIGNED CONSULTANT AS TO ANY ENVIRONMENTAL HAZARD, INCLUDING BUT NOT LIMITED TO FRESHWATER WETLANDS, FLOODPLAINS, HAZARDOUS WASTE (BURIED OR OTHERWISE) OR THE PRESENCE OR ABSENCE OF ANY UNDERGROUND STORAGE TANKS, WHICH MAY BE ON SITE OR AFFECT THE SITE. SUCH A DETERMINATION IS BEYOND THE EXPERTISE OF THE UNDERSIGNED PROFESSIONAL AND BEYOND THE SCOPE OF THE CONTRACT

UTILITY LOCATION NOTICE:
STATE LAW REQUIRES THAT UNDERGROUND LOCATION SERVICES BE CONTACTED PRIOR TO COMMENCEMENT OF ANY EXCAVATION. CALL : 800 - 272 - 1000.
THE LOCATION, TYPE AND DEPTH OF ALL UTILITIES SHALL BE VERIFIED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.

THE OFFSETS SHOWN ON THIS SURVEY SHALL NOT BE USED FOR THE CONSTRUCTION OF FENCES OR ANY OTHER PERMANENT STRUCTURE
CAUTION: IF THIS DOCUMENT DOES NOT CONTAIN A RAISED IMPRESSION SEAL OF THE PROFESSIONAL, IT IS NOT AN AUTHORIZED ORIGINAL DOCUMENT AND MAY HAVE BEEN ALTERED.
THIS SURVEY REFLECTS CONDITIONS VISIBLE AS OF THE TIME OF THE SURVEY (SEE DATE BELOW), AND IS VALID FOR THIS CLIENT ONLY
THIS SURVEY IS NOT TRANSFERABLE TO SUBSEQUENT CLIENTS OR OWNERS.

ATTACHMENT D

**Former NIKE Base Property - Wetland Delineation
1310 Route 23 North (Block 1400, Lot 26)
Wayne, Passaic County, New Jersey**



Photograph 1: Looking south at the phragmites-dominated wetland area from A-2.



Photograph 2: Looking east at the wetland (right)-upland (left) boundary from A-2.

**Former NIKE Base Property - Wetland Delineation
1310 Route 23 North (Block 1400, Lot 26)
Wayne, Passaic County, New Jersey**



Photograph 3: Looking west past B-5 at wetland area.



Photograph 4: Looking east at the red maple forested wetland area from C-3.

**Former NIKE Base Property - Wetland Delineation
1310 Route 23 North (Block 1400, Lot 26)
Wayne, Passaic County, New Jersey**



Photograph 5: Looking south at upland area from C-3.



Photograph 6: Looking south at wetland area from C-6.

**Former NIKE Base Property - Wetland Delineation
1310 Route 23 North (Block 1400, Lot 26)
Wayne, Passaic County, New Jersey**



Photograph 7: Looking north at upland area from C-6.



Photograph 8: Looking south at forested wetland area from C-8.

**Former NIKE Base Property - Wetland Delineation
1310 Route 23 North (Block 1400, Lot 26)
Wayne, Passaic County, New Jersey**



Photograph 9: Looking south toward C-9A at wetland area.



Photograph 10: Looking east from D-3 at wetland area.

**Former NIKE Base Property - Wetland Delineation
1310 Route 23 North (Block 1400, Lot 26)
Wayne, Passaic County, New Jersey**



Photograph 11: Looking west at onsite (right) and offsite (left) wetland areas from C-10.



Photograph 12: Looking east at wetland (left)-upland (right) boundary from D-3.

**Former NIKE Base Property - Wetland Delineation
1310 Route 23 North (Block 1400, Lot 26)
Wayne, Passaic County, New Jersey**



Photograph 13: Looking northeast at wetland area from D-3.



Photograph 14: Looking west at wetland area from E-2.

**Former NIKE Base Property - Wetland Delineation
1310 Route 23 North (Block 1400, Lot 26)
Wayne, Passaic County, New Jersey**



Photograph 15: Looking south at wetland (right)-upland (left) boundary from E-2.

ATTACHMENT E

NECESSARY APPROVALS

Former NIKE Base Property
1310 Route 23 North (Block 1400, Lot 26)
Wayne, Passaic County, New Jersey

Currently, there is no proposed project for this property. This LOI is being submitted for NJDEP confirmation of the site wetlands, in anticipation of potential future site development. Should site plans be developed, the following approvals will likely be required for the proposed activities:

- Wayne Township Planning Board
- NJDEP Freshwater Wetlands Permit or Transition Area Waiver (depending on proposed site development)

ATTACHMENT F

NARRATIVE

Former NIKE Base Property
1310 Route 23 North (Block 1400, Lot 26)
Wayne, Passaic County, New Jersey

The former NIKE Base Property (33.85 acres) is currently occupied by several Passaic County departments, housed in two main buildings and several smaller garage and storage buildings. A partially paved parking area is located east of the buildings. The majority of the property is wooded, with a significant portion of the wooded area recently delineated as wetlands. The property is bounded on portions of three sides by a golf course, with the remainder bordered by residential, commercial, or undeveloped properties. No off-site wetland delineation was performed.

A significant portion of the property is occupied by a wooded wetland identified by delineation lines C, D, and E. This wetland area is dominated by red maple, pin oak, weeping willow, northern spicebush, redosier dogwood, multiflora rose, Japanese honeysuckle, grape, garlic mustard, sensitive fern, and broadleaf cattail. This wetland area occupies the entire onsite wooded area east of the raised path (City of Newark pipeline right-of-way) that bisects the property. It also extends to the west of the path, and south of the partially paved parking area. There is a State open water stream scour channel delineated by line F that runs from the wooded wetland, to the north and west along the perimeter of the parking area.

Additional areas of wetlands are located adjacent to the entrance roadway, identified by delineation lines A (dominated by redosier dogwood, phragmites, and multiflora rose) and B (dominated by grape, phragmites, and multiflora rose). Because these wetlands extend off-site, it is unknown whether they are connected to each other or to the larger wooded wetland area. Further details regarding the onsite delineated wetlands can be found in the field data forms in this attachment.

A Threatened and Endangered Species request was sent to the New Jersey Department of Environmental Protection (NJDEP) Natural Heritage Program (NHP) for any species of concern that may be located on or near the property. A response was received on January 4, 2010, and a copy is enclosed in this attachment. The letter stated that Fowlers toad (*Bufo woodhousii fowleri*), a species of special concern, may be found onsite, and the great blue heron (*Ardea Herodias*), another species of special concern, may be found within ¼ mile of the site.

There are no properties listed in or determined eligible for listing in the New Jersey or National Registers of Historic Places located on or in close proximity to the project site. The property was previously known as NIKE Battery NY-88, a three magazine missile base manned by both Regular Army and New Jersey Army National Guard units. The base was operational between 1955 and 1963. The property housed the missiles in underground silos, which also contained the missile launcher. The silos have been filled and the area is partially paved, and used as parking. Some of the old buildings are currently used by several Passaic County departments.

**DATA FORM
ROUTINE WETLAND DETERMINATION**

Project/Site: <u>Former NIKE Base Property</u> Applicant/Owner: <u>County of Passaic</u> Investigator: <u>Dewberry – SJ/MM</u>	Date: <u>12/16/09</u> County: <u>Passaic</u> State: <u>NJ</u>
Do Normal Circumstances Exist on the site? Yes No Is the site significantly disturbed (Atypical Situation)? Yes No Is the area a potential Problem Area? Yes No (If needed, explain on reverse)	Community ID: <u>Wetland</u> Wetland ID: <u>Wetland A</u> Boring ID: <u>B A-1 WET</u>

VEGETATION

<u>Dominant Plant Species</u>	<u>Stratum</u>	<u>Indicator</u>	<u>Dominant Plant Species</u>	<u>Stratum</u>	<u>Indicator</u>
1. <u>Cornus sericea</u>	<u>shrub</u>	<u>FACW+</u>	9. _____	_____	_____
2. <u>Phragmites australis</u>	<u>herb</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Rosa multiflora</u>	<u>shrub</u>	<u>FACU</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 66%

Remarks: Vegetation indicated wetland conditions in this sample area.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input checked="" type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input checked="" type="checkbox"/> Water Marks <input checked="" type="checkbox"/> Drift Lines <input checked="" type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required) <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>N/A*</u> (in.) Depth to Free Water in Pit: <u>N/A*</u> (in.) Depth to Saturated Soil: <u>N/A*</u> (in.)	
Remarks: *no pit was performed as soil was too rocky – material consisted of fill Additional recorded data includes NJDEP, NWI maps, and USGS topographic maps.	

SOILS

Boring ID: B A-1 WET cont.

Map Unit Name (Series and Phase): <u>Urban land-Boonton Complex</u> Taxonomy (Subgroup): <u>Typic Fragiudalfs</u>	Drainage Class: <u>moderately well and well drained</u> Field Observations Confirm Mapped Type? Yes No																																										
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WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present Yes No Hydric Soils Present? Yes No	Is this Sampling Point Within a Wetland? Yes No
Remarks: Because soils consisted of fill material, they were discounted in the determination of wetland status.	
Cowardin Classification: PEM	

**DATA FORM
ROUTINE WETLAND DETERMINATION**

Project/Site: <u>Former NIKE Base Property</u> Applicant/Owner: <u>County of Passaic</u> Investigator: <u>Dewberry – SJ/MM</u>	Date: <u>12/16/09</u> County: <u>Passaic</u> State: <u>NJ</u>
Do Normal Circumstances Exist on the site? Yes <u>No</u> Is the site significantly disturbed (Atypical Situation)? <u>Yes</u> No Is the area a potential Problem Area? Yes <u>No</u> (If needed, explain on reverse)	Community ID: <u>Upland</u> Wetland ID: <u>Wetland A</u> Boring ID: <u>B A-1 UP</u>

VEGETATION

<u>Dominant Plant Species</u>	<u>Stratum</u>	<u>Indicator</u>	<u>Dominant Plant Species</u>	<u>Stratum</u>	<u>Indicator</u>
1. <u>Rosa multiflora</u>	<u>shrub</u>	<u>FACU</u>	9. _____	_____	_____
2. <u>grass</u>	<u>herb</u>	<u>NL</u>	10. _____	_____	_____
3. <u>Malus sp.</u>	<u>tree</u>	<u>NL</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0%

Remarks: Vegetation indicates upland conditions in this sample area.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input checked="" type="checkbox"/> Other _____ No Recorded Data Available	Wetland hydrology Indicators: <u>NONE</u> Primary Indicators: _____ Inundated _____ Saturated in Upper 12" _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or more required) _____ Oxidized Root Channels in Upper 12" _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: _____ N/A* (in.) Depth to Free Water in Pit: _____ N/A* (in.) Depth to Saturated Soil: _____ N/A* (in.)	
Remarks: *no pit was performed as soil was too rocky – material consisted of fill Additional recorded data includes NJDEP, NWI maps, and USGS topographic maps.	

SOILS

Boring ID: B A-1 UP cont.

<p>Map Unit Name (Series and Phase): <u>Urban land-Boonton Complex</u></p> <p>Taxonomy (Subgroup): <u>Typic Fragiudalfs</u></p>	<p>Drainage Class: <u>moderately well and well drained</u></p> <p>Field Observations Confirm Mapped Type? Yes No</p>																														
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WETLAND DETERMINATION

<p>Hydrophytic Vegetation Present? Yes No</p> <p>Wetland Hydrology Present Yes No</p> <p>Hydric Soils Present? Yes No</p>	<p>Is this Sampling Point Within a Wetland? Yes No</p>
<p>Remarks: Because soils consisted of fill material, they were discounted in the determination of wetland status.</p>	
<p>Cowardin Classification: N/A</p>	

**DATA FORM
ROUTINE WETLAND DETERMINATION**

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Do Normal Circumstances Exist on the site? Yes No Is the site significantly disturbed (Atypical Situation)? Yes No Is the area a potential Problem Area? Yes No (If needed, explain on reverse)	Community ID: <u>Wetland</u> Wetland ID: <u>Wetland B</u> Boring ID: <u>B B-6 WET</u>

VEGETATION

<u>Dominant Plant Species</u>	<u>Stratum</u>	<u>Indicator</u>	<u>Dominant Plant Species</u>	<u>Stratum</u>	<u>Indicator</u>
1. <u>Vitis sp.</u>	<u>vine</u>	<u>NL</u>	9. _____	_____	_____
2. <u>Phragmites australis</u>	<u>herb</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Rosa multiflora</u>	<u>shrub</u>	<u>FACU</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 50%

Remarks: *Phragmites australis* was significantly more dominant than the *Rosa multiflora*. Vegetation indicated wetland conditions in this sample area.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input checked="" type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input checked="" type="checkbox"/> Water Marks <input checked="" type="checkbox"/> Drift Lines <input checked="" type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required) <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
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Remarks: *no pit was performed as soil was too rocky – material consisted of fill Additional recorded data includes NJDEP, NWI maps, and USGS topographic maps.	

SOILS

Boring ID: B B-6 WET cont.

Map Unit Name (Series and Phase): <u>Urban land-Boonton Complex</u> Taxonomy (Subgroup): <u>Typic Fragiudalfs</u>		Drainage Class: <u>moderately well and well drained</u> Field Observations Confirm Mapped Type? Yes No																																																	
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WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present Yes No Hydric Soils Present? Yes No	Is this Sampling Point Within a Wetland? Yes No
Remarks: Because soils consisted of fill material, they were discounted in the determination of wetland status.	
Cowardin Classification: PEM	

**DATA FORM
ROUTINE WETLAND DETERMINATION**

Project/Site: <u>Former NIKE Base Property</u> Applicant/Owner: <u>County of Passaic</u> Investigator: <u>Dewberry – SJ/MM</u>	Date: <u>12/16/09</u> County: <u>Passaic</u> State: <u>NJ</u>
Do Normal Circumstances Exist on the site? Yes <u>No</u> Is the site significantly disturbed (Atypical Situation)? <u>Yes</u> No Is the area a potential Problem Area? Yes <u>No</u> (If needed, explain on reverse)	Community ID: <u>Upland</u> Wetland ID: <u>Wetland B</u> Boring ID: <u>B B-6 UP</u>

VEGETATION

<u>Dominant Plant Species</u>	<u>Stratum</u>	<u>Indicator</u>	<u>Dominant Plant Species</u>	<u>Stratum</u>	<u>Indicator</u>
1. <u>Rosa multiflora</u>	<u>shrub</u>	<u>FACU</u>	9. _____	_____	_____
2. <u>Ambrosia artemisiifolia</u>	<u>herb</u>	<u>FACU</u>	10. _____	_____	_____
3. _____	_____	_____	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0%

Remarks: Vegetation indicates upland conditions in this sample area.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input checked="" type="checkbox"/> Other _____ No Recorded Data Available	Wetland hydrology Indicators: <u>NONE</u> Primary Indicators: _____ Inundated _____ Saturated in Upper 12" _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or more required) _____ Oxidized Root Channels in Upper 12" _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: _____ N/A* (in.) Depth to Free Water in Pit: _____ N/A* (in.) Depth to Saturated Soil: _____ N/A* (in.)	
Remarks: *no pit was performed as soil was too rocky – material consisted of fill Additional recorded data includes NJDEP, NWI maps, and USGS topographic maps.	

SOILS

Boring ID: B B-6 UP cont.

Map Unit Name (Series and Phase): <u>Urban land-Boonton Complex</u> Taxonomy (Subgroup): <u>Typic Fragiudalfs</u>		Drainage Class: <u>moderately well and well drained</u> Field Observations Confirm Mapped Type? Yes No																																											
<p><u>Profile Description:</u></p> <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width:15%;">Depth (inches)</th> <th style="width:15%;">Horizon</th> <th style="width:15%;">Matrix Color (Munsell Moist)</th> <th style="width:15%;">Mottle Colors (Munsell Moist)</th> <th style="width:15%;">Mottle Abundance/Contrast</th> <th style="width:20%;">Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td style="text-align: left;">N/A*</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>				Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	N/A*																																			
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Hydric Soil Indicators: <table style="width:100%; margin-top: 10px;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reduced Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>				<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reduced Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																														
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Remarks: *no pit was performed as soil was too rocky – material consisted of fill																																													

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present Yes No Hydric Soils Present? Yes No	Is this Sampling Point Within a Wetland? Yes No
Remarks: Because soils consisted of fill material, they were discounted in the determination of wetland status.	
Cowardin Classification: N/A	

**DATA FORM
ROUTINE WETLAND DETERMINATION**

Project/Site: <u>Former NIKE Base Property</u> Applicant/Owner: <u>County of Passaic</u> Investigator: <u>Dewberry – SJ/MM</u>	Date: <u>12/16/09</u> County: <u>Passaic</u> State: <u>NJ</u>
Do Normal Circumstances Exist on the site? Yes No Is the site significantly disturbed (Atypical Situation)? Yes No Is the area a potential Problem Area? Yes No (If needed, explain on reverse)	Community ID: <u>Wetland</u> Wetland ID: <u>Wetland C</u> Boring ID: <u>B C-2 Wet</u>

VEGETATION

<u>Dominant Plant Species</u>	<u>Stratum</u>	<u>Indicator</u>	<u>Dominant Plant Species</u>	<u>Stratum</u>	<u>Indicator</u>
1. <u><i>Acer rubrum</i></u>	<u>tree</u>	<u>FAC</u>	9. _____	_____	_____
2. <u><i>Lindera benzoin</i></u>	<u>shrub</u>	<u>FACW-</u>	10. _____	_____	_____
3. <u><i>Lonicera japonica</i></u>	<u>vine</u>	<u>FAC-</u>	11. _____	_____	_____
4. <u><i>Vitis aestivalis</i></u>	<u>vine</u>	<u>FACU</u>	12. _____	_____	_____
5. <u><i>Cornus sericea</i></u>	<u>shrub</u>	<u>FACW+</u>	13. _____	_____	_____
6. <u><i>Alliaria petiolata</i></u>	<u>herb</u>	<u>FACU-</u>	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 50%

Remarks: Vegetation indicated wetland conditions in this sample area.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input checked="" type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12" <input checked="" type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input checked="" type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required) <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u> N/A </u> (in.) Depth to Free Water in Pit: <u> 14 </u> (in.) Depth to Saturated Soil: <u> 10 </u> (in.)	
Remarks: Hydrology indicates wetland conditions in this sample area. Additional recorded data includes NJDEP, NWI maps, and USGS topographic maps.	

SOILS

Boring ID: B C-2 Wet cont.

Map Unit Name (Series and Phase): <u>Carlisle Muck</u> Taxonomy (Subgroup): <u>Mesic Typic Haplosaprists</u>		Drainage Class: <u>Very poorly drained</u> Field Observations Confirm Mapped Type? Yes No			
Profile <u>Description:</u>					
<u>Depth (inches)</u>	<u>Horizon</u>	<u>Matrix Color (Munsell Moist)</u>	<u>Mottle Colors (Munsell Moist)</u>	<u>Mottle Abundance/Contrast</u>	<u>Texture, Concretions, Structure, etc.</u>
<u>0-18</u>	<u>A/B</u>	<u>10 YR 2/1</u>	<u></u>	<u></u>	<u>Organic Silt</u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
Hydric Soil Indicators:					
<input checked="" type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input checked="" type="checkbox"/> Aquic Moisture Regime		<input checked="" type="checkbox"/> Listed on Local Hydric Soils List			
<input checked="" type="checkbox"/> Reduced Conditions		<input checked="" type="checkbox"/> Listed on National Hydric Soils List			
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks: Soil conditions indicate wetland conditions in this sample area.					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present Yes No Hydric Soils Present? Yes No	Is this Sampling Point Within a Wetland? Yes No
Remarks: All wetland criteria are present at this sample location.	
Cowardin Classification: PFO	

**DATA FORM
ROUTINE WETLAND DETERMINATION**

Project/Site: <u>Former NIKE Base Property</u> Applicant/Owner: <u>County of Passaic</u> Investigator: <u>Dewberry – SJ/MM</u>	Date: <u>12/16/09</u> County: <u>Passaic</u> State: <u>NJ</u>
Do Normal Circumstances Exist on the site? Yes No Is the site significantly disturbed (Atypical Situation)? Yes No Is the area a potential Problem Area? Yes No (If needed, explain on reverse)	Community ID: <u>Wetland</u> Wetland ID: <u>Wetland C</u> Boring ID: <u>B C-2 Up</u>

VEGETATION

<u>Dominant Plant Species</u>	<u>Stratum</u>	<u>Indicator</u>	<u>Dominant Plant Species</u>	<u>Stratum</u>	<u>Indicator</u>
1. <u>Rosa multiflora</u>	<u>shrub</u>	<u>FACU</u>	9. _____	_____	_____
2. <u>Lonicera japonica</u>	<u>vine</u>	<u>FAC-</u>	10. _____	_____	_____
3. <u>Alliaria petiolata</u>	<u>herb</u>	<u>FACU-</u>	11. _____	_____	_____
4. <u>grass</u>	<u>herb</u>	<u>NL</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0%

Remarks: Vegetation indicates upland conditions in this sample area.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input checked="" type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: <u>NONE</u> Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required) <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>N/A</u> (in.) Depth to Free Water in Pit: <u>N/A</u> (in.) Depth to Saturated Soil: <u>N/A</u> (in.)	
Remarks: Hydrology indicates upland conditions in this sample area. Additional recorded data includes NJDEP, NWI maps, and USGS topographic maps.	

SOILS

Boring ID: B C-2 Up cont.

Map Unit Name (Series and Phase): <u>Urban land-Boonton Complex</u> Taxonomy (Subgroup): <u>Typic Fragiudalfs</u>	Drainage Class: <u>moderately well and well drained</u> Field Observations Confirm Mapped Type? Yes No																																				
<p><u>Profile Description:</u></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Depth (inches)</u></th> <th style="text-align: left;"><u>Horizon</u></th> <th style="text-align: left;"><u>Matrix Color (Munsell Moist)</u></th> <th style="text-align: left;"><u>Mottle Colors (Munsell Moist)</u></th> <th style="text-align: left;"><u>Mottle Abundance/Contrast</u></th> <th style="text-align: left;"><u>Texture, Concretions, Structure, etc.</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">0-2</td> <td style="text-align: center;">Fill</td> <td>10 YR 3/1</td> <td></td> <td></td> <td>Fill – loamy sand</td> </tr> <tr> <td style="text-align: center;">2-10</td> <td style="text-align: center;">Fill</td> <td>10 YR 5/3</td> <td></td> <td></td> <td>Fill – loamy sand</td> </tr> <tr> <td style="text-align: center;">10-18</td> <td style="text-align: center;">Fill</td> <td>10 YR 5/4</td> <td></td> <td></td> <td>Fill - gravelly loamy sand</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		<u>Depth (inches)</u>	<u>Horizon</u>	<u>Matrix Color (Munsell Moist)</u>	<u>Mottle Colors (Munsell Moist)</u>	<u>Mottle Abundance/Contrast</u>	<u>Texture, Concretions, Structure, etc.</u>	0-2	Fill	10 YR 3/1			Fill – loamy sand	2-10	Fill	10 YR 5/3			Fill – loamy sand	10-18	Fill	10 YR 5/4			Fill - gravelly loamy sand												
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Hydric Soil Indicators: <u>NONE</u> <table style="width:100%;"> <tr> <td style="width:50%; vertical-align: top;"> <input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reduced Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors </td> <td style="width:50%; vertical-align: top;"> <input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks) </td> </tr> </table>		<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reduced Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)																																		
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Remarks: Soil conditions indicate upland conditions in this sample area.																																					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes <u>No</u> Wetland Hydrology Present Yes <u>No</u> Hydric Soils Present? Yes <u>No</u>	Is this Sampling Point Within a Wetland? Yes <u>No</u>
Remarks: Does No evidence of wetland criteria at this sample location.	
Cowardin Classification: N/A	

**DATA FORM
ROUTINE WETLAND DETERMINATION**

Project/Site: <u>Former NIKE Base Property</u> Applicant/Owner: <u>County of Passaic</u> Investigator: <u>Dewberry – SJ/MM</u>	Date: <u>12/16/09</u> County: <u>Passaic</u> State: <u>NJ</u>
Do Normal Circumstances Exist on the site? Yes No Is the site significantly disturbed (Atypical Situation)? Yes No Is the area a potential Problem Area? Yes No (If needed, explain on reverse)	Community ID: <u>Wetland</u> Wetland ID: <u>Wetland D</u> Boring ID: <u>B D-3 Wet</u>

VEGETATION

<u>Dominant Plant Species</u>	<u>Stratum</u>	<u>Indicator</u>	<u>Dominant Plant Species</u>	<u>Stratum</u>	<u>Indicator</u>
1. <u>Acer rubrum</u>	<u>tree</u>	<u>FAC</u>	9. _____	_____	_____
2. <u>Quercus palustris</u>	<u>tree</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Salix babylonica</u>	<u>tree</u>	<u>FACW-</u>	11. _____	_____	_____
4. <u>Cornus sericea</u>	<u>shrub</u>	<u>FACW+</u>	12. _____	_____	_____
5. <u>Rosa multiflora</u>	<u>shrub</u>	<u>FACU</u>	13. _____	_____	_____
6. <u>Onoclea sensibilis</u>	<u>herb</u>	<u>FACW</u>	14. _____	_____	_____
7. <u>Typha latifolia</u>	<u>herb</u>	<u>OBL</u>	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 86%

Remarks: Vegetation indicated wetland conditions in this sample area.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): _____ Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input checked="" type="checkbox"/> Other _____ No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: _____ Inundated <input checked="" type="checkbox"/> Saturated in Upper 12" <input checked="" type="checkbox"/> Water Marks <input checked="" type="checkbox"/> Drift Lines <input checked="" type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required) _____ Oxidized Root Channels in Upper 12" <input checked="" type="checkbox"/> Water-Stained Leaves _____ Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test _____ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>N/A</u> (in.) Depth to Free Water in Pit: <u>4</u> (in.) Depth to Saturated Soil: <u>2</u> (in.)	
Remarks: Hydrology indicates wetland conditions in this sample area. Additional recorded data includes NJDEP, NWI maps, and USGS topographic maps.	

SOILS

Boring ID: B D-3 Wet cont.

Map Unit Name (Series and Phase): <u>Carlisle Muck</u> Taxonomy (Subgroup): <u>Mesic Typic Haplosaprists</u>	Drainage Class: <u>Poorly drained</u> Field Observations Confirm Mapped Type? Yes No																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">Profile Description:</th> <th style="text-align: left; padding: 2px;">Matrix Color (Munsell Moist)</th> <th style="text-align: left; padding: 2px;">Mottle Colors (Munsell Moist)</th> <th style="text-align: left; padding: 2px;">Mottle Abundance/Contrast</th> <th style="text-align: left; padding: 2px;">Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;"><u>0-18</u></td> <td style="padding: 2px;"><u>A/B</u></td> <td style="padding: 2px;"><u>Gley 2.5/N</u></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"><u>organic silt</u></td> </tr> <tr><td style="padding: 2px;"></td><td style="padding: 2px;"></td><td style="padding: 2px;"></td><td style="padding: 2px;"></td><td style="padding: 2px;"></td></tr> <tr><td style="padding: 2px;"></td><td style="padding: 2px;"></td><td style="padding: 2px;"></td><td style="padding: 2px;"></td><td style="padding: 2px;"></td></tr> <tr><td style="padding: 2px;"></td><td style="padding: 2px;"></td><td style="padding: 2px;"></td><td style="padding: 2px;"></td><td style="padding: 2px;"></td></tr> <tr><td style="padding: 2px;"></td><td style="padding: 2px;"></td><td style="padding: 2px;"></td><td style="padding: 2px;"></td><td style="padding: 2px;"></td></tr> <tr><td style="padding: 2px;"></td><td style="padding: 2px;"></td><td style="padding: 2px;"></td><td style="padding: 2px;"></td><td style="padding: 2px;"></td></tr> </tbody> </table>		Profile Description:	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	<u>0-18</u>	<u>A/B</u>	<u>Gley 2.5/N</u>		<u>organic silt</u>																									
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Remarks: Soil conditions indicate wetland conditions in this sample area.																																				

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present Yes No Hydric Soils Present? Yes No	Is this Sampling Point Within a Wetland? Yes No
Remarks: All wetland criteria are present at this sample location.	
Cowardin Classification: PFO	

**DATA FORM
ROUTINE WETLAND DETERMINATION**

Project/Site: <u>Former NIKE Base Property</u> Applicant/Owner: <u>County of Passaic</u> Investigator: <u>Dewberry – SJ/MM</u>	Date: <u>12/16/09</u> County: <u>Passaic</u> State: <u>NJ</u>
Do Normal Circumstances Exist on the site? Yes No Is the site significantly disturbed (Atypical Situation)? Yes No Is the area a potential Problem Area? Yes No (If needed, explain on reverse)	Community ID: <u>Upland</u> Wetland ID: <u>Wetland D</u> Boring ID: <u>B D-3 Up</u>

VEGETATION

<u>Dominant Plant Species</u>	<u>Stratum</u>	<u>Indicator</u>	<u>Dominant Plant Species</u>	<u>Stratum</u>	<u>Indicator</u>
1. <u>turf grass (golf course)</u>	<u>herb</u>	<u>NL</u>	9. _____	_____	_____
2. _____	_____	_____	10. _____	_____	_____
3. _____	_____	_____	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0%

Remarks: Vegetation indicates upland conditions in this sample area.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input checked="" type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: NONE Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required) <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>N/A</u> (in.) Depth to Free Water in Pit: <u>N/A</u> (in.) Depth to Saturated Soil: <u>N/A</u> (in.)	
Remarks: Hydrology indicates upland conditions in this sample area. Additional recorded data includes NJDEP, NWI maps, and USGS topographic maps.	

SOILS

Boring ID: B D-3 Up cont.

Map Unit Name (Series and Phase): <u>Urban land-Boonton Complex</u> Taxonomy (Subgroup): <u>Typic Fragiudalfs</u>		Drainage Class: <u>moderately well and well drained</u> Field Observations Confirm Mapped Type? Yes No			
<u>Profile</u>					
<u>Description:</u>					
<u>Depth (inches)</u>	<u>Horizon</u>	<u>Matrix Color (Munsell Moist)</u>	<u>Mottle Colors (Munsell Moist)</u>	<u>Mottle Abundance/Contrast</u>	<u>Texture, Concretions, Structure, etc.</u>
<u>0-18</u>	<u>A/B</u>	<u>10YR 3/1</u>	_____	_____	<u>Fill – gravelly loamy sand</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
<u>Hydric Soil Indicators:</u>					
_____ Histosol		_____ Concretions			
_____ Histic Epipedon		_____ High Organic Content in Surface Layer in Sandy Soils			
_____ Sulfidic Odor		_____ Organic Streaking in Sandy Soils			
_____ Aquic Moisture Regime		_____ Listed on Local Hydric Soils List			
_____ Reduced Conditions		_____ Listed on National Hydric Soils List			
_____ Gleyed or Low-Chroma Colors		_____ Other (Explain in Remarks)			
Remarks: Fill soils contain dark colored material, not hydric soils.					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present Yes No Hydric Soils Present? Yes No	Is this Sampling Point Within a Wetland? Yes No
Remarks: No evidence of wetland criteria at this sample location.	
Cowardin Classification: N/A	



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Division of Parks and Forestry
Office of Natural Lands Management
Natural Heritage Program
P.O. Box 404
Trenton, NJ 08625-0404
Tel. #609-984-1339
Fax. #609-984-1427

JON S. CORZINE
Governor

MARK N. MAURIELLO
Acting Commissioner

January 4, 2010

Michelle Measday
Dewberry-Goodkind, Inc.
600 Parsippany Road, Suite 301
Parsippany, NJ 07054

Re: Former Nike Base Site (Block 1400, Lot 26)

Dear Ms. Measday:

Thank you for your data request regarding rare species information for the above referenced project site in Wayne Township, Passaic County.

Searches of the Natural Heritage Database and the Landscape Project (Version 3 for the highlands region, Version 2.1 elsewhere) are based on a representation of the boundaries of your project site in our Geographic Information System (GIS). We make every effort to accurately transfer your project bounds from the topographic map(s) submitted with the Request for Data into our Geographic Information System. We do not typically verify that your project bounds are accurate, or check them against other sources.

We have checked the Natural Heritage Database and the Landscape Project habitat mapping for occurrences of any rare wildlife species or wildlife habitat on the referenced site. Please see Table 1 for species list and conservation status.

Table 1 (on referenced site).

Table with 6 columns: Common Name, Scientific Name, Federal Status, State Status, Grank, Srank. Row 1: Fowler's toad, Bufo woodhousii fowleri, SC, G5, S3

We have also checked the Natural Heritage Database and the Landscape Project habitat mapping for occurrences of any rare wildlife species or wildlife habitat within 1/4 mile of the referenced site. Please see Table 2 for species list and conservation status. This table excludes any species listed in Table 1.

Table 2 (additional species within 1/4 mile of referenced site).

Table with 6 columns: Common Name, Scientific Name, Federal Status, State Status, Grank, Srank. Row 1: great blue heron, Ardea herodias, SC/S, G5, S3B,S4N

We have also checked the Natural Heritage Database for occurrences of rare plant species or ecological communities. The Natural Heritage Database does not have any records for rare plants or ecological communities on or within 1/4 mile of the site.

A list of rare plant species and ecological communities that have been documented from Passaic County can be downloaded from http://www.state.nj.us/dep/parksandforests/natural/heritage/countylist.html. If suitable habitat is present at the project site, the species in that list have potential to be present.


Status and rank codes used in the tables and lists are defined in EXPLANATION OF CODES USED IN NATURAL HERITAGE REPORTS, which can be downloaded from http://www.state.nj.us/dep/parksandforests/natural/heritage/nhpcodes_2008.pdf.

If you have questions concerning the wildlife records or wildlife species mentioned in this response, we recommend that you visit the interactive I-Map-NJ website at the following URL, http://www.state.nj.us/dep/gis/depsplash.htm or contact the Division of Fish and Wildlife, Endangered and Nongame Species Program at (609) 292 9400.

PLEASE SEE 'CAUTIONS AND RESTRICTIONS ON NHP DATA', which can be downloaded from <http://www.state.nj.us/dep/parksandforests/natural/heritage/newcaution2008.pdf>.

Thank you for consulting the Natural Heritage Program. The attached invoice details the payment due for processing this data request. Feel free to contact us again regarding any future data requests.

Sincerely,

A handwritten signature in black ink that reads "Herbert A. Lord". The signature is written in a cursive style with a large initial 'H'.

Herbert A. Lord
Data Request Specialist

cc: Robert J. Cartica
NHP File No. 10-4007483-3976

(by Patricia Sziber)

ATTACHMENT G

BRIAN A. SAYRE

Director, Natural Resources

Mr. Sayre has over 30 years of experience in the environmental science and engineering fields. He has assisted clients, including US Army Corps of Engineers (USACE) and New Jersey Department of Environmental Protection (NJDEP) with issues involving wetland delineation and mitigation, permitting, threatened and endangered (T&E) species habitat assessments and surveys, and environmental regulatory compliance. He is a former employee of the NJDEP, having worked at the Department for eight years in the tidelands and wetlands programs, conducting vegetative field assessments in support of mapping programs.

EDUCATION

MA, Montclair State University, Environmental Studies

BA, University of Virginia, Environmental Sciences/Ecology

RELEVANT REGISTRATIONS / TRAINING

- Vernal Pool Survey Training Seminar – Endangered and Nongame Species Program of the New Jersey Division of Fish & Wildlife, Basking Ridge, NJ
- Restore Our Streams Workshop – New Jersey Chapter of the American Water Resources Association, Flemington, NJ
- Ecological Restoration Seminar – The Society for Ecological Restoration International, University of Pennsylvania, Philadelphia, PA
- Threatened & Endangered Species of New Jersey – Cook College, Rutgers, New Brunswick, NJ
- Environmental & Ecological Risk Assessment for Hazardous Waste – Cook College, Rutgers, New Brunswick, NJ
- Freshwater Wetland Construction – Cook College, Rutgers, New Brunswick, NJ
- US Army Corps of Engineers' Wetland Delineator Certification Program – Cook College, Rutgers, New Brunswick, NJ
- Bog Turtles and the Environmental Review Process in Pennsylvania – Parts I & II, Pennsylvania Association of Environmental Professionals/United States Fish and Wildlife Service

AFFILIATIONS

Native Plant Society of New Jersey

Society of Wetland Scientists

Pennsylvania Association of Environmental Professionals

SELECTED EXPERIENCE

VIRTUA HEALTH HOSPITAL SITE, VOORHEES, NJ. Ecological Task Leader responsible for wetlands and T&E services on more than 100 acres. Natural Heritage Program data included T&E and special concern species on the site - northern pine snake, timber rattlesnake, pine barrens treefrog, barred owl, broad-winged hawk and swamp pink. Site studies were conducted, including habitat evaluation and installation of drift fences/pitfall traps and cover boards for snakes, visual /call surveys for barred owl/broad-winged hawk, and general site surveys for other species, including evening call surveys in the pitch pine lowland areas for pine barrens treefrog. A wetland inspection was conducted in April 2005 for Swamp Pink. The studies identified several

BRIAN A. SAYRE

Director, Natural Resources, continued

species of special concern on the site, but none of the reported T&E species. The studies were conducted to determine the presence, frequency and distribution of species and evaluate various approaches to minimize potential impacts from the proposed site development.

NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION, SPRINGFIELD LAKE, SPRINGFIELD GARDENS, NY. Project Manager for Stormwater Best Management Practices designs. Design goals include creation of wetlands, forebays, stilling basins, and streambank and lake shore restoration. The project involves direct planning and coordination with NYC Economic Development Corporation and Department of Environmental Protection (NYSDEC) and to provide ecological enhancement to the lake and stream. Springfield Lake and its associated stream will be dredged, recontoured and restored with native vegetation and plantings designed for sediment, pollutant and nutrient removal. NYSDEC records show the potential presence of rare plants in or near the project boundaries, including velvet panic grass (*Dichanthelium scoparium*) and Green Parrot's feather (*Myriophyllum pinnatum*). Field inspections were conducted to confirm that the rare plants are not present in the project area. The field inspections also included searches for other rare species, including narrowleaf vervain (*Verbena simplex*) in the remnant pine barrens landscape areas in and adjacent to the project area. The field inspections revealed that the project areas have been so highly altered that no suitable habitat remains.

I-295/I-76/NJ 42 INTERCHANGE, CAMDEN COUNTY, NJ. Ecological Task Leader overseeing wetlands and T&E services for feasibility assessment, preparation of an EIS, and selection of an IPA for one of the largest, most congested interchanges in New Jersey. T&E species studied include Coopers Hawk and Red-headed Woodpecker. As part of the permitting process, Mr. Sayre performed a wetland functional analysis to evaluate and describe the wetlands functions and mitigation/replacement options. The project requires a Section 404 USACE and NJDEP Individual Permit. Responsible for evaluation of mitigation sites involving Open Water, Palustrine Emergent (PEM), and Palustrine Scrub / Shrub / Forested (PSS1/PFO1) wetlands.

COMMUNITY MEDICAL CENTER, TOMS RIVER, NJ. Wetlands Specialist for proposed facility improvements and expansion at Community Medical Center. The site is located in the CAFRA (Coastal Area Facility Review Act) Zone and required an Individual CAFRA Permit issued by the NJDEP Land Use Regulation Program (LURP). Work included review of available mapping and documentation for previous development at this site including, but not limited to, wetlands mapping, flood hazard mapping, and tidelands mapping. Wetlands delineation was completed. Field Data Sheets and a Wetland Report were prepared in support of the permitting required by the NJDEP and the USACE. T&E Species screening was conducted for Swamp Pink (*Helonias bullata*) and Knieskern's Beaked Rush (*Rhynchospora knieskernii*).

ROUTE 9 OVER NORTH BRANCH POTTER CREEK, BERKELEY TOWNSHIP, NJ. Wetlands and Ecological Specialist for emergency replacement of the structure carrying US Route 9 over a branch of Potter Creek. Work included wetland delineation and T&E

BRIAN A. SAYRE

Director, Natural Resources, continued

survey of species identified by the NJDEP Natural Heritage Program, as well as the Pinelands list of rare species, including Pine Barrens gentian (*Gentiana autumnalis*), narrowleaf vervain (*Verbena simplex*) and Broom crowberry (*Corema conradii*). No rare species or suitable habitat were found within this limited project area along Route 9. Environmental permit applications were prepared and submitted to the NJDEP LURP for review and approval. The work also included review of mapping at this site including, but not limited to, wetlands mapping, flood hazard mapping, and tidelands mapping. Efforts to limit the environmental impacts included threatened and endangered species investigations and monitoring during construction (bog turtles); wetland restoration; Green Acres Parkland and the use of articulated concrete matting to stabilize the stream bed. Additional services performed included historical architecture and archeological reviews.

VINCE'S BRIDGE REPLACEMENT/RECONSTRUCTION, TOMS RIVER, NJ. Wetland Specialist for the identification and delineation of wetlands for the study area (approximately 2+ acres) surrounding identified bridge structure. Wetland delineation performed following NJDEP and USACE guidelines and regulations. Project activities included wetland delineation and T&E survey of species, including Swamp Pink (*Helonias bullata*), as well as the Pinelands list of rare species, including Pine Barrens gentian (*Gentiana autumnalis*), narrowleaf vervain (*Verbena simplex*) and Broom crowberry (*Corema conradii*). No rare species or suitable habitat were found within the project area, since the entire area is densely wooded, except for a strip of land along the Ciba property, just beyond the project border, and outside or the proposed area of impact. Environmental permit applications were prepared and submitted to the NJDEP LURP for review and approval.

SMITHVILLE ROAD BRIDGE REPLACEMENT/RECONSTRUCTION, EASTAMPTON, NJ: Ecological Task Leader for the identification and delineation of wetlands within the study area surrounding identified bridge structure. Ecological Assessment also studied potential wood turtle habitat. Wetland Delineation and Ecological Assessment were performed following New Jersey Department of Transportation, NJDEP and USACOE guidelines and regulations.

ROUTE 31 OVER POHATCONG CREEK, WASHINGTON TOWNSHIP, NJ. Ecological Task Leader for the delineation and preparation of reports to NJDEP LURP, Freshwater Wetlands General Permits, as well as submittals of T&E Species compliance to the US Fish and Wildlife Service concerning potential bog turtle and wood turtle habitat.

ROUTES I-295/NJ 42, MISSING MOVES, CAMDEN AND GLOUCESTER COUNTIES, NJ. Ecological Task Leader for wetlands delineation and wetlands mitigation. The proposed "Missing Moves" ramp traverses former landfills and impacts both tidal and freshwater wetlands. The project involves NJDEP and USACE permitting, including Waterfront Development, Tidal/Freshwater Wetlands, Sections 10 and 404 review, Landfill Disruption permits, and review of Sole Source Aquifer and Endangered Species Act regulations. Responsible for design of mitigation involving Open Water, Palustrine Emergent (PEM), and Palustrine Scrub / Shrub / Forested (PSS1/PFO1) wetlands.

MICHELLE SAVAGE-MEASDAY, CEA

Senior Environmental Scientist

Ms. Savage-Measday has over fifteen years of experience in the fields of geological and environmental science, including hazardous waste studies, groundwater studies, biological studies, habitat assessments, wetland delineation and evaluations and the preparation of associated National Environmental Policy Act (NEPA) environmental impact documentation. Her work includes numerous environmental studies for transportation projects and residential and commercial developments. Her assignments have required the application of rules and/or regulations as set forth by the NEPA of 1969, New Jersey Freshwater Wetlands Protection Act, New York State Environmental Quality Review Act (SEQRA), Pennsylvania, Dam Safety and Encroachments Act and the US Army Corps of Engineers, Title 33 Code of Federal Regulations, Parts 320 through 330.

EDUCATION

MA, Montclair State University, Environmental Management

BA, Rutgers University, Geology with a concentration in Chemistry

Post - BA Teaching Certification, Montclair State University

REGISTRATIONS & TRAINING

- Certified Environmental Auditor, National Registry of Environmental Professionals
- US Environmental Protection Agency (EPA) Certification Course for Jurisdictional Determination of Wetlands in the Mid-Atlantic
- USACE, Wetland Evaluation Technique, Certification Course
- Cook College, USACE Wetland Delineator Certification Course
- Cook College, Freshwater Wetland Construction Techniques
- Cook College, Planning for New Jersey's Freshwater Wetlands
- Cook College, Identification of Wetland Plants
- Cook College, Site and Soils Evaluation
- Cook College, Understanding Soil Conditions in Wetlands
- Cook College, New Jersey's Wetlands

SELECTED EXPERIENCE

WETLANDS DELINEATION, EASTERLY BRIDGE OVER THE HACKENSACK RIVER, NEW JERSEY TURNPIKE AUTHORITY, KEARNY AND SECAUCUS, NJ. Senior Environmental Scientist responsible for wetland delineation, threatened and endangered species studies, and environmental permitting for this \$135-million bridge re-decking of the Easterly Bridge over the Hackensack River. Includes environmental studies and permitting to obtain agency approvals associated with bridge re-decking and construction access.

WETLANDS DELINEATION, VIRTUA NEW VOORHEES HOSPITAL, VOORHEES, NJ. Senior Environmental Scientist responsible for wetlands delineations in connection with the development of Virtua's 125-acre Voorhees campus.

WETLANDS DELINEATION, CUCKELS BROOK, SOMERSET COUNTY ENGINEERING DEPARTMENT, BRIDGEWATER, NJ. Senior Environmental Scientist responsible for wetland delineation for a proposed bridge repair/replacement project over Cuckels Brook.

MICHELLE SAVAGE-MEASDAY, CEA

Senior Environmental Scientist, continued

WETLAND MITIGATION MONITORING, POHATCONG CREEK, DELAWARE RIVER JOINT TOLL BRIDGE COMMISSION, POHATCONG, NJ. Senior Environmental Scientist responsible for supervising habitat restoration activities and 2- year monitoring program for mitigating construction impacts to Pohatcong Creek.

WETLAND DELINEATION, REHABILITATION OF THE ROUTE 3 BRIDGES OVER THE HACKENSACK RIVER, NEW JERSEY DEPARTMENT OF TRANSPORTATION, EAST RUTHERFORD AND SECAUCUS, NJ. Senior Environmental Scientist responsible for wetland delineation, threatened and endangered species studies, and environmental permitting for this \$50-million bridges restoration project over the Hackensack River. Includes environmental studies and permitting to obtain agency approvals associated with bridge restoration and construction access.

NJDOT, ROUTE 120 RELOCATION, LEVEL OF ACTION ASSESSMENT, ENVIRONMENTAL PERMITTING, WETLAND DELINEATION, MITIGATION SITE SELECTION AND CONCEPTUAL WETLAND MITIGATION DESIGN, EAST RUTHERFORD, NJ. Senior Environmental Scientist. Responsible for field surveys, data search and interpretation for the ecological assessment component of the Level of Action Assessment. Prepared NJDEP and ACOE permits for the project. Responsible for the selection of potential mitigation sites and as task leader, conducted field investigations at each site and prepared report detailing site selection methodologies and analyses resulting in conceptual wetland mitigation designs for the preferred sites.

PRIVATE CLIENT, WETLAND DELINEATION AND ENVIRONMENTAL PERMITTING FOR STORMWATER MANAGEMENT SYSTEM, ESSEX COUNTY RESOURCE RECOVERY FACILITY, CITY OF NEWARK, NJ. Senior Environmental Scientist. Conducted a wetland delineation and completed all NJDEP and ACOE permits required for the proposed stormwater management system.

NEW YORK STATE DEPARTMENT OF TRANSPORTATION, ROUTE 22 ROADWAY RECONSTRUCTION, I-684 TO C.R.-65, TOWN OF SOUTHEAST, NY. DESIGN REPORT/ENVIRONMENTAL IMPACT STATEMENT/TECHNICAL STUDIES, WETLAND DELINEATION, MITIGATION SITE SELECTION AND CONCEPTUAL MITIGATION DESIGN. Principal Environmental Scientist. Responsible for field surveys, data search, and impact assessment of natural and biological resources within the project corridor. Technical study reports included, wetland delineation, mitigation site selection and conceptual wetland mitigation design; surface water quality inventory and assessment using the 1990 FHWA model and Toler Analysis; and groundwater quality assessment using the Toler Analysis.

NEW YORK CITY DEPARTMENT OF HOUSING PRESERVATION AND DEVELOPMENT, EDGEMERE URBAN RENEWAL PROJECT, ENVIRONMENTAL IMPACT STATEMENT, EDGEMERE, NY. Senior Environmental Scientist. Conducted field analysis of a proposed urban renewal area for biological resources including freshwater wetlands, vegetation and wildlife. The assessment was conducted to identify potential impacts to these resources as a result of the proposed urban renewal project. A discussion of applicable regulations and mitigative measures to reduce unavoidable impacts was also prepared.

SARA WEIMER

Geologist

Ms. Weimer is a Geologist and Wetland Specialist responsible for the performance of wetland delineations and presence/absence determinations in accordance with state and federal standards.

EDUCATION

BS, State University of New York at New Paltz, Geology

REGISTRATIONS & TRAINING

- OSHA 40-Hour Hazardous Waste Operations Training, 1996; Annual Refreshers
- OSHA 10-Hour Construction Safety & Health Training, 2007
- Introduction to Wetlands, Rutgers University, Cook College
- Endangered and Threatened Species of Northern NJ, Rutgers University, Cook College, 2007
- Restore Our Streams, NJ AWRA Stream Restoration Committee, 2007
- Federal All Appropriate Inquiry Rule Changes to EDR Reports, Environmental Data Resources, 2007
- Confined Space Entry Training

SELECTED EXPERIENCE

BERNARDS TOWNSHIP, NJ. Environmental Specialist for two Phase I Environmental Site Assessments (ESA) in conformance with ASTM E 1527-05 and USEPA All Appropriate Inquiry (AAI). The properties, under consideration for acquisition by the Township, consisted of one 185-acre parcel and one 10-acre parcel with a historic dwelling.

PERCYPENY LANE WETLANDS EVALUATION , PARSIPPANY, NJ. Wetland Specialist assisted in wetland delineation of undeveloped property adjacent to a NJDEP mapped wetland surrounding a tributary of the Rockaway River. Compiled evaluation letter to assist in the development designs for the property.

RAINBOW LAKE DAM DELINEATION AND PERMITTING, PITTSBORO, NJ (NJDOT EMERGENCY ENGINEERING ON-CALL CONTRACT). Wetland Specialist assisted in wetland delineation of lake shore and stream wetlands surrounding a dam breach. This emergency work was performed to expedite the dam, bridge, and road replacement process. Additionally, contributed to wetland permit preparation and submittal to NJDEP.

ENVIRONMENTAL IMPACT STATEMENT (EIS), I-295/I-76/ROUTE 42 DIRECT CONNECTION, CAMDEN COUNTY, NJ. Environmental Specialist on the EIS team involved with coordination of environmental tasks, meetings, and technical environmental studies. The scope of work includes environmental/technical studies and documentation, including, but not limited to an EIS, a community outreach program and various federal and state permitting. The project involves selection of a preferred alternative for one of the largest most congested interchanges in New Jersey.

SARA WEIMER
Geologist, continued

NJ TRANSIT, ENVIRONMENTAL SERVICES TASK ORDER CONTRACT, VARIOUS LOCATIONS. Environmental Specialist for various tasks under a 3-year, \$5M contract. The contract covers a broad range of environmental services in the categories of Site Investigation and Remediation; Environmental Permitting; NEPA Environmental Documentation and Planning; and Environmental Compliance.

FEMA ENVIRONMENTAL ASSESSMENTS, MISSISSIPPI. Environmental Specialist in connection with FEMA rebuilding efforts after Hurricane Katrina. Prepared NEPA Environmental Assessments for the reconstruction and relocation of municipal facilities. Issues of concern included: floodway/floodplain location; wetlands; hazardous waste; archaeological and historic resources; threatened and endangered species. Work included research, agency coordination, and report writing. Work was performed in compliance with NEPA, CEQ guidelines and FEMA regulations, and with all applicable federal and state regulations. Assessments include the Gulfport, Mississippi Department of Public Works, the East Hancock County Fire Station and the Pass Christian Oyster Check Station and the Marine Patrol and Marine Fisheries Departments.

VERIZON WIRELESS COMMUNICATION SITES IN NEW YORK, NEW JERSEY, PENNSYLVANIA, MARYLAND, AND CONNECTICUT. Wetland Specialist. Site evaluation to determine the presence/absence of wetlands at or near the proposed project site. Responsible for conducting presence/absence reviews, wetland delineation, and recommendations regarding feasibility of proposed construction.

FRITO LAY WETLAND MITIGATION, NEW PALTZ, NY. Wetland Specialist. Creation of a wetland area in exchange for the destruction of wetlands during facility construction. Responsible for upholding the mitigation plan including regular ground and surface water monitoring and plant growth progress. Additionally responsible for annual reports to the USACE regarding the success of the mitigated wetland area and providing recommendations to the client for increasing the probability of wetland creation.

ATLANTIC BUILDERS, NEWBURGH, NY. Wetland Specialist. Environmental investigation associated with the construction of four residential homes on raw land. Responsibilities included endangered species determination submittal, NYSDEC Wetland Review, wetland delineation, USACE Jurisdictional Determination submittal, and NYC Environmental Quality Review Environmental Assessment Long Form submittal.

SERVIDONE, NEWBURGH, NY. Wetland Specialist. Wetland delineation necessary prior to developing the property. Responsible for the delineation of a stream wetland.

STERLING PLAZA, MONROE, NY. Wetland Specialist. Environmental Site Assessment including wetland determination. A Phase I ESA and wetland delineation were completed. Responsibilities included Phase I preparation, wetland determination, and wetland delineation.

